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# REPORT OF TWO CASES OF ROCKY MOUNTAIN SPOTTED FEVER IN OHIO 1

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AND R. E. DYER<sup>4</sup>

During the summer of 1937, two patients with Rocky Mountain spotted fever were seen in Cincinnati. As far as we can learn, this is the first description of this disease in Ohio.

#### CASE NO. 1

A 9-year-old white girl, who resided in Lebanon, Ohio, visited a farm near Marathon, Ohio, from July 14 to July 21, 1937. There were tick-infested dogs on this farm, and ticks were picked from the skin of the patient on several occasions during her stay there. An engorged tick was removed from the lobe of her right ear the morning after she returned from the farm to her home in Lebanon. Three days later. she developed moderate malaise. On the fifth day after her return, she was acutely ill with headache, fever, anorexia, and vomiting. These symptoms improved slightly, and on the seventh day after return an eruption was noticed on the skin of her neck and in both For a few days, just preceding admission to the hospital, the patient's condition had gradually become worse. She suffered from soreness in her back and legs, severe headache, high fever, anorexia, epistaxis, difficulty in swallowing, and obstinate constipation. also had diffuse abdominal pain which became so severe that appendicitis was suspected. The referring physician, Dr. Brewer, of Lebanon, suggested a diagnosis of Rocky Mountain spotted fever because of the history of tick bites and the recent newspaper publicity given the other patient reported later in this communication.

On admission to the Children's Hospital the patient was acutely ill and drowsy, but was not in pain nor suffering from respiratory distress. She showed a generalized dusky macular eruption, most intense on the extensor surfaces of the extremities, but also present at the hair

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margins, on the neck, and along the mandible to a more marked degree than on other skin areas. After application of a tourniquet for venepuncture, the eruption became distinctly petechial below the level of constriction, and the lesions were so numerous as to be confluent. Petechiae appeared on the palms and under the finger nails. The pharynx was intensely injected and there was a petechial enanthem on the soft palate. There were grayish areas of exudate varying in size from that of a pin head to 5 mm in diameter on the buccal mucosa. ear drums were moderately injected. There was marked cutaneous hyperesthesia. The occipital and cervical lymph nodes were enlarged to the size of a pea. The spleen was palpable just below the left costal margin. There was moderate diffuse abdominal tenderness without localizing signs. There was some stiffness of the neck and a positive Kernig's sign. A spinal tap delivered a clear fluid under 130 mm pressure, which gave a two plus Pandy reaction and contained two cells. The white blood cell count was 10,400, with 88 percent polymorphonuclear neutrophiles, and 12 percent lymphocytes. The red cell count was 5,040,000. There were 14.6 gm of hemoglobin per 100 cc of blood.

The temperature varied from 102° F. on admission to 106.5° at death, with the pulse correspondingly high, between 140 and 160. The heart sounds were of good quality until late in the course of the disease, and no murmurs developed. Respirations increased from 30 on admission to 65 at death. The petechial rash became increasingly extensive and dense, involving all skin areas.

On her third hospital day (August 4, 1937), the patient's condition became much worse and two small transfusions were given. Fluids were given by parenteral administration. The temperature rose to 106° F., the respirations increased to 65 and were stertorous in character, and the patient entered a state of coma from which she could not be aroused. In general, she presented the picture of severe cerebral edema. Dehydrating measures were then given without response, and she died 14 days after she had returned to her home from the farm.

A post-mortem spinal tap delivered a clear fluid with a two plus Pandy reaction, and 60 cells, most of which were polymorphonuclear leucocytes. A necropsy examination shortly after death revealed a large, unusually blue, mushy spleen. The liver was enlarged and yellow and presented a grossly toxic appearance.

Agglutination reactions.—A blood specimen taken at the time of admission was negative for agglutinins for Eberthella typhi, Salmonella paratyphi A and B, Brucella abortus and Proteus OX 19. Another blood specimen was obtained on the third day after admission to the hospital. This was tested by Dr. Lee Foshay for agglutinins for Proteus OX 19 and the same procedure was carried out in the labora-

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tory of the Children's Hospital. Both laboratories reported complete agglutination in the 1:640 dilution and partial agglutination in the 1:1280 dilution.

Animal experiments—Animals injected with patient's blood.—Blood was obtained for injection into animals shortly before the patient died. Three guinea pigs were inoculated intraperitoneally with this blood, and two guinea pigs and one monkey (Macacus rhesus) were injected with a saline suspension of spleen obtained at necropsy. All of these guinea pigs developed febrile reactions consistent with spotted fever after incubation periods varying from 5 to 11 days, the animals injected with splenic emulsion showing the shortest incubation periods. The monkey failed to show signs of infection. From the blood of one of the guinea pigs inoculated with spleen suspension, a strain of spotted fever was recovered. This strain was maintained in guinea pigs for 10 months, during which time a total of 360 guinea pigs was used. Clinically the picture produced in guinea pigs by this strain did not vary materially from that given by Badger in his description of the reactions produced by the strains isolated in Virginia in 1930 (1). The fatality rate in guinea pigs in Badger's strains was about 25 percent, while infection with the Cincinnati strain resulted in death in about 8 percent.

Histological examination, by Dr. R. D. Lillie, of the National Institute of Health, of sections of the brain in five out of eight guinea pigs, showed the characteristic picture associated with typhus and spotted fever with the distribution described by Lillie for spotted fever (2). The pathological findings in the remaining three guinea pigs were inconclusive.

The Cincinnati strain produced fever in each of six rabbits inoculated followed by a positive agglutination of *Proteus* OX 19 in the 1:320 dilution in one rabbit. Two of the rabbits died early in the disease and the sera of the remaining three did not produce agglutination in titers above 1:20.

Of two monkeys (Macacus rhesus) inoculated, one remained well and the second developed a fever and rash, and died on the sixth day from onset of fever. The rash in this animal closely resembled that previously described in monkeys infected with spotted fever. The Weil-Felix test was not performed on the serum of this monkey. Complete cross immunity was found to exist between the Cincinnati strain and a virulent strain of spotted fever originally isolated in Montana.

#### CASE NO. 2

The second patient was a white boy, aged 2½ years, who became ill on July 4, 1937, with fever, vomiting, and marked irritability. On July 6 he complained of a frontal headache, and a physician found

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an otitis media on the left side. A faint rash was noticed for the first time on the extremities and buttocks on July 6, and there was the complaint of pain in the back and feet. On July 8 the rash was noticed on the face in addition to the extremities.

The patient was admitted to the contagious division of the Cincinnati General Hospital on July 10 with a temperature of 104° F., marked restlessness, and a macular-papular rash covering the face, trunk, and extremities. Most of the lesions were discrete, but many had coalesced into areas measuring about 2 cm in diameter. Some of these areas were bright red, but many had taken on a brownish coppery cast, as they had faded. There were numerous petechial lesions along the hair line. The bright red lesions faded when pressure was applied but returned as soon as released. Lesions were also present on the palms and soles. The pharynx was injected but no enanthem was observed. There was no stiffness of the neck and the Brudzinski sign was negative. There was no generalized glandular adenopathy at that time.

On July 11 the patient was still acutely ill with a continuous high fever. The rash had disappeared somewhat from the face, but it was more pronounced and more petechial in character over the upper extremities. The spleen was palpable at this time about one finger's breadth below the costal margin. The bleeding time was 2 minutes, and the clot retracted normally. The Kahn test was negative. The blood serum of the patient did not contain agglutinins for Eberthella typhi, Salmonella paratyphi A or B, or Brucella abortus. Kernig's sign was slightly suggestive on this day, and a spinal puncture was done but the fluid was entirely normal.

A Weil-Felix reaction test, done by Dr. Lee Foshay on July 12, was negative; *Proteus* OX 19 was used as the antigen.

On July 16, the mother offered the information that the patient had a pet dog which was infested with ticks, some of which had been picked from the patient's neck at various times.

A second Weil-Felix reaction was performed on July 17 and showed complete agglutination in the 1:320 dilution and partial agglutination in the 1:640 dilution. On third test, on July 20, the Weil-Felix reaction was complete at 1:640, partial at 1:1,280, and slight at 1:2,560.

During the first 10 days that the patient was in the hospital, three blood cultures were taken, all of which remained negative.

This patient's condition remained about the same until July 20, when the temperature began to decline, the rash to disappear, and the patient showed signs of slight improvement. During the following 10 days the patient's condition improved satisfactorily and he was discharged from the hospital on July 30.

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#### SUMMARY

The clinical courses are presented of two patients who had histories of being bitten by ticks, and who later developed extensive generalized macular-papular-petechial rashes which also involved the palms in both patients and the soles in one. Both patients developed definite Weil-Felix agglutination reactions. One patient died.

A strain isolated from the fatal case was proved to be Rocky Mountain spotted fever by studies in laboratory animals.

#### REFERENCES

 Badger, L. F., Dyer, R. E., and Rumreich, A.: An infection of the spotted fever type. Identification in the eastern part of the United States. Pub. Health Rep., 46: 463 (1931).
 Lillie, R. D., and Dyer, R. E.: Brain reactions in guinea pigs infected with endemic typhus, epidemic (European) typhus, and Rocky Mountain spotted fever, eastern and western types. Pub. Health Rep., 51: 1293 (1932). (1936).

## A SIMPLE METHOD OF CONCENTRATING VITAMIN E\*

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Despite the isolation of three compounds possessing vitamin E activity (1, 2), no simple methods exist for preparing potent concen-Where the use of a pure substance is not practicable or essential, a rapid and efficient method of concentrating the vitamin should be helpful. The procedure used by Evans, Emerson, and Emerson (1), involving the treatment of the unsaponifiable fraction of wheat germ oil with a series of solvents, resulted in a concentrate potent in a 10-mg dose. A concentrate from the same source, active at 10 mg, was prepared by Olcott and Mattill (3) by the use of solvents and fractional distillation. Removal of the acetone insoluble material at  $-80^{\circ}$  C. increased the potency to 5 mg. Drummond, Singer, and Macwalter (4), after removing the bulk of sterols from the unsaponifiable fraction of wheat germ oil by cooling in methanol to  $-25^{\circ}$  C. and preparing an aluminum hydroxide chromatogram, obtained a fraction active at 4 Two additional adsorptions increased the activity to 2.1 mg. The method described here, a simplification of these procedures, preserves most of the activity present in the unsaponifiable lipids of wheat germ oil and gives a concentrate effective at 3 to 7.5 mg.

#### METHOD

The unsaponifiable material from 200 gm of wheat germ oil is dissolved in the minimum amount of boiling C. P. anhydrous methanol (usually 350 to 400 cc). Slow crystallization from this solution is

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effected by leaving the reflux apparatus and water bath on the hot plate until room temperature is reached. The mixture is then stored overnight in the refrigerator at 8° C. The precipitate is removed by filtering under reduced pressure through a Jena fritted glass filter funnel (No. 3 porosity), the plate of which has been chilled by contact with a little dry ice. The filtrate is removed and the precipitate washed white with two small portions of methanol cooled to 8° C. The filtrate and the combined washings, kept in separate flasks, are packed in dry ice overnight. The waxy orange precipitate formed in the filtrate is removed by filtering through the Jena funnel. the plate of which is kept covered with powdered dry ice throughout the operation. The funnel is covered with a watch glass except when the extract, which is kept packed in dry ice, is being added. When all of the methanol has been filtered off, the precipitate is washed once with the combined washings from the 8° C. precipitation. The methanol is removed from the filtrate in vacuo, leaving a viscous red orange (occasionally almost black) oil. The yield is approximately 1.7 gm.

The 8° C. precipitate and the dry ice precipitate account, respectively, for about 65 percent and 15 percent of the total unsaponifiable lipids.

#### ASSAY

The importance of testing the oil or its unsaponifiable fraction for potency before proceeding with the concentration is well demonstrated in a recent paper by Todd, Bergel, and Work (5), in which the activity for a sterol-low concentrate of the unsaponifiable fraction of wheat germ oil is given as 125 mg. Preparatory to developing the method of concentration described in this paper, two sources of wheat germ oil, a commercial cold pressed oil and an oil prepared by ether extraction of wheat germ, were investigated with respect to the potency of their unsaponifiable fractions. Saponification was carried out according to the method of Evans et al. (6). The saponification mixture was extracted five times with ether 2 and the ethereal solution washed alternately with distilled water and 0.5 N potassium hydroxide to remove all traces of soaps and fatty acids. The solution was then dried with anhydrous sodium sulfate and the ether removed in vacuo. The unsaponifiable fractions thus prepared were assayed by the method of Evans and Burr (7) on the following diet: Sucrose 55.9, casein (acid washed, cold alcohol extracted) 20, lard 8, salts No. 51 (McCollum) 6.1, dried yeast (Northwestern) 10, carotene 10 mg per kilo, and calciferol 3 0.2 mg per kilo. In view of the results shown in table 1,

<sup>&#</sup>x27;Kindly furnished by Washburn-Crosby Company, Inc., Buffalo, N. Y.

All chemicals used throughout are C. P.

We are indebted to Dr. C. E. Bills, of Mead Johnson & Co., for the calciferol.

the unsaponifiable matter from oil prepared by ether extraction of wheat germ was used as the starting material for all concentrates.

| TABLE 1 Vitamin | E activity of the | unsaponifiable | fraction of | f wheat germ oil |
|-----------------|-------------------|----------------|-------------|------------------|
|-----------------|-------------------|----------------|-------------|------------------|

| Source of unsaponifiable material | Prepara-<br>tion | Single<br>dose | Living<br>young  | Dead<br>young | Average<br>weight<br>per live<br>rat |
|-----------------------------------|------------------|----------------|------------------|---------------|--------------------------------------|
| ,                                 |                  | Mg             |                  |               | Gm                                   |
| •                                 | /A1              | 13             | 0                | 0             |                                      |
|                                   | A1               | 25             | 0                | Ó             |                                      |
|                                   | A1               | 37             | 0                | 0             | l                                    |
|                                   | A1               | 64             | 6                | 1             | 4.4                                  |
| "Cold pressed" wheat germ oil     | ( A2             | 64<br>75       | 9                | 0             | 4.2                                  |
|                                   | A2               | 75             | 0                | 0             |                                      |
|                                   | A3               | 75             | 0<br>3<br>2<br>8 | 1             |                                      |
|                                   | A2               | 80             | 3                | 0             | 5.3                                  |
|                                   | (A3              | 100            | 2                | 2             | 4.3                                  |
|                                   | [B]              | 25             | 8                | 0             |                                      |
|                                   | B1<br>B2         | 25             | 5<br>9           | 0             | 5.8                                  |
| "Ether extracted" wheat germ oil  | B2               | 25<br>25       | , ,              | . 0           | 5.1                                  |
|                                   | Bi               | 50             | 4                | Į į           | 6. 5<br>5. 5                         |
|                                   | Bi               | 100            | 6                | ó             | 5. 7<br>5. 7                         |
|                                   | (1)              | 100            |                  |               | 3. 1                                 |

Six preparations of the concentrate were assayed on second generation E-deficient female rats, the offspring of animals that had received a single dose of unsaponifiable matter. The concentrate was administered by evaporating a 5 percent ethyl ether solution on a small portion of the diet and placing this before the assay animal in a non-scatter food pan on the first day of insemination. Food was withheld until the supplement was entirely consumed. The findings presented in table 2 indicate a potency of 3 mg.

TABLE 2.—Vitamin E activity of concentrates

| Preparation | Single<br>dose   | Living<br>young                            | Dead<br>young                   | Average<br>weight<br>per live<br>rat               | Preparation | Single<br>dose              | Living<br>young                        | Dead<br>young | A verage<br>weight<br>per live<br>rat      |
|-------------|------------------|--|---------------------------------|--|-------------|-----------------------------|--|---------------|--|
| E6          | Mg 3 3 3 5 5 5 5 | 8<br>7<br>5<br>2<br>5<br>10<br>0<br>4<br>8 | 0<br>0<br>0<br>1<br>0<br>0<br>0 | Gm<br>5. 2<br>5. 3<br>6. 0<br>5. 5<br>5. 6<br>5. 4 | E10         | Mg 5 5 10 10 10 10 10 10 10 | 2<br>7<br>9<br>11<br>10<br>8<br>9<br>5 | 000000        | Gm 5. 0 5. 5 5. 5 5. 0 5. 5 5. 4 5. 6 5. 5 |

<sup>1</sup> On the following pregnancy, 50 days later, delivered 10 living young, average 5.1 gm.

Two of the concentrates were assayed by Dr. Karl E. Mason, of Vanderbilt University. The diet used was composed of casein (unextracted) 22, starch (uncooked) 54, lard 20, salts 4, cod liver oil 2, and yeast 8. The concentrate was administered in the same manner as described above. Dr. Mason's results, summarized in table 3, show a somewhat lower potency, 5 to 7.5 mg.

TABLE 3.—Vitamin E activity of concentrates E3 and E9 assayed by Dr. Karl B.

Mason, Vanderbilt University

| Single dose  | Number<br>of rats<br>fed               | Number<br>of litters            | Average<br>number<br>living<br>young per<br>litter | Average<br>weight per<br>live rat |
|--|--|---------------------------------|--|-----------------------------------|
| Mg<br>2.0<br>2.5<br>3.0<br>3.75<br>4.0<br>5.0<br>7.5 | 3<br>1<br>13<br>8<br>2<br>10<br>3<br>1 | 0<br>0<br>0<br>8<br>1<br>6<br>8 | 8<br>7<br>7<br>7,7                                 | 5.1<br>4.7<br>5.2<br>4.9<br>5.4   |

<sup>&</sup>lt;sup>1</sup> An additional rat fed a 3-mg dose and autopsied on the 20th day of pregnancy showed 3 living fetuses, 1 dead fetus, and 6 resorption sites.

Since initial fertility has not been observed on either diet, and since second generation animals were used in the assays showing fertility with 3 mg, it does not seem probable that the degree of depletion was the factor responsible for the variance reported. The higher content of lard and the presence of cod liver oil in the diet used by Dr. Mason might have resulted in the partial destruction of the vitamin while on the supplement or in the animal body. However, such a number of other plausible explanations exist, as the inherent differences between strains of rats and environmental variables, that no positive conclusion can be drawn. Consideration of both sets of assays indicates a potency of 3 to 7.5 mg. The use of a standard diet for vitamin E assay would render more comparable the findings of different laboratories.

#### SUMMARY

A vitamin E concentrate potent at 3 to 7.5 mg has been prepared by the elimination of substances, insoluble in methanol at the temperature of dry ice, from the unsaponifiable fraction of wheat germ oil.

### REFERENCES

 Evans, H. M., Emerson, O. H., and Emerson, G. A.: The isolation from wheat germ oil of an alcohol, α-tocopherol, having the properties of vitamin E. J. Biol. Chem., 113: 319 (1936).

(2) Emerson, O. H., Emerson, G. A., Mohammad, A., and Evans, H. M.: Chemistry of vitamin E; tocopherols from various sources. J. Biol. Chem.,

**122:** 99 (1937).

(3) Olcott, H. S., and Mattill, H. A.: Vitamin E. I. Some chemical and physical properties. J. Biol. Chem., 104: 423 (1934).

(4) Drummond, J. C., Singer, E., and Macwalter, R. J.: A study of the unsponifiable fraction of wheat germ oil with special reference to vitamin E.

Biochem. J., 29: 456 (1935).

(5) Todd, A. R., Bergel, F., and Work, T. S.: Studies on vitamin E; isolation of β-tocopherol from wheat germ oil. Biochem. J., 31: 2257 (1937).

(6) Evans, H. M., Murphy, E. A., Archibald, R. C., and Cornish, R. E.: Prepara-

5) Evans, H. M., Murphy, E. A., Archibald, R. C., and Cornish, R. E.: Preparation and properties of vitamin E concentrates. J. Biol. Chem., 108: 515

(7) Evans, H. M., and Burr, G. O.: The antisterility vitamine fat soluble E. Mem. Univ. of California, Vol. 8, University of California Press, Berkeley, 1927. 1783

## CITY HEALTH OFFICERS, 1938

# Directory of Those in Cities of 10,000 or More Population <sup>1</sup>

Directories of the city health officers in the cities of the United States having populations of 10,000 or more have been published in the Public Health Reports and reprinted as separates 2 for each year from 1916 to 1937, except 1932 and 1935, for the information of health officers and others interested in public health activities. These directories have been compiled from data furnished by the health officers. The cities included in this directory are those having populations of 10,000 or more according to the 1930 census. In some instances the county health officer serves as city health officer of cities within the county.

The asterisk (\*) indicates that the officer before whose name it appears 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 in any other business, but devotes

all his time to official duties."

| City              | Name of health officer                                       | Official title                        |
|-------------------|--|---------------------------------------|
| Alabama:          | _  |                                       |
| Anniston          | John M. Kimmey, M. D., M. P. H.                              | County health officer.                |
| Bessemer          | *Judson D. Dowling, M. D.                                    | Do.                                   |
| Birmingham        | *Judson D. Dowling, M. D.                                    | Do.                                   |
| Decatur           | *L. R. Murphree, M. D., C. P. H.                             | Do.                                   |
| Dothan            | •W. T. Burkett, M. D.  | Do.                                   |
| Fairfield         | *J. D. Dowling, M. D.  | Do.                                   |
| Florence          | *Julius E. Dunn, M. D.                                       | Do.                                   |
| Gadsden           | *C. L. Murphree, M. D.                                       | Do.                                   |
| Huntsville        | *W. C. Hatchett, M. D.                                       | Do.                                   |
| Mobile            | *O. L. Chason, M. D., D. P. H                                | Do.                                   |
| Montgomery        |  | Do.                                   |
| Phenix City       | *M. L. Shaddix, M. D., C. P. H                               | Do.                                   |
| Selma.            | *L. T. Lee, M. D.  | Do.                                   |
| Tuscaloosa        | *A. A. Kirk. M. D.   | Do.                                   |
| Arizona:          | A. A. KIIZ, M. D   |                                       |
| Phoenix           | H. D. Ketcherside, M. D.                                     | City health officer.                  |
| Tucson            | *Lewis H. Howard, M. D.                                      | Director, city-county health unit.    |
| Arkansas:         | Lewis II. Howard, Mr. D                                      | Director, city country meaning amount |
| Blytheville       | C. E. Wilson, M. D.  | City health officer.                  |
| El Dorado         | Fergus O. Mahony, M. D.                                      | City-county health officer.           |
| Fort Smith        | *J. E. Johnson, M. D.  | Director, county health unit.         |
| Hot Springs       | *James Foster Merritt, M. D.                                 | Medical director.                     |
| Jonesboro         |  | Chairman, board of health.            |
| Little Rock       | *Thomas M. Fly, M. D.  | City health officer.                  |
| North Little Rock | W M Rurne M D  | Do.                                   |
| Pine Bluff        | W. M. Burns, M. D. •W. H. Bruce, M. D.                       | Director, county health department.   |
| Texarkana         | H. E. Burry, M. D.   | City health officer.                  |
| California:       | 11. 15. Duily, Mr. D   | 010, 200000                           |
| Alameda           | Leonard E. Skilling, M. D                                    | Health officer.                       |
| Alhambra 3        | *Samuel J. Stewart, M. D.                                    | District health officer.              |
| Anaheim           | *Kenneth H. Sutherland, M. D                                 | County health officer.                |
| Bakersfield       | P. J. Cuneo, LL. B., M. D.                                   | Health officer.                       |
| Berkeley          | P. J. Cuneo, LL. B., M. D.<br>Frank L. Kelly, M. D., P. H. D | Do.                                   |
| Beverly Hills     | H. H. Blodgett, M. D.  | City health officer.                  |
| Brawley           | John Parker, M. D  | Do.                                   |
| Burbank           | Thomas H. Ransom, M. D.                                      | Consultant physician.                 |
| Burlingame        | Matthew F. Desmond, M. D                                     | City health officer.                  |
| Compton 3         | *Frank E Estes M D   | District health officer.              |
| Eureka            | William J. Quinn, M. D.                                      | Health officer.                       |
| Fresno            | *C. Mathewson, M. D.   | City health officer.                  |
| Fullerton         | *Kenneth H. Sutherland, M. D                                 | County health officer.                |
| Glendale 3        | *Frank A. Wilmot, M. D., P. H D                              | District health officer.              |
| Huntington Park   |  | Do.                                   |
| Inglewood 3       | *John W. Robinson, M. D.                                     | Do.                                   |
| Long Beach        | *G. E. McDonald, M. D.                                       | City health officer.                  |
| TANK DOMAIT       |  |                                       |

<sup>1</sup> Any errors or omissions discovered in this directory should be reported immediately to the Surgeon General, U. S. Public Health Service, Washington, D. C., in order that correction may be made in the reprint.

2 Reprints Nos. 346, 416, 494, 539, 599, 702, 767, 876, 930, 1025, 1103, 1177, 1257, 1333, 1426, 1521, 1613, 1685, 1783, and 1888, from the Public Health Reports.

Under supervision of Dr. J. L. Pomeroy, health officer of Los Angeles County, Hall of Justice, Los

Angeles, Calif.

| City                                 | Name of health officer   | Official title   |
|--------------------------------------|--|--|
| California—Continued.                | #George Powish M. D.   | Health officer.  |
| Los Angeles                          | *George Parrish, M. D*George M. Stevens, M. D  | Epidemiologist and first assistant health officer.   |
|                                      | *G. F. Schmelzel, M. D.  | Chief deputy health officer.   |
|                                      | *A. L. Peterson Division directors:  |  |
|                                      | *Charles F. Kiley  | Chief accountant. Secretary to health board.   |
|                                      | *Harry Cohn, M. D.   | Director of tuberculosis. Director of nurses.  |
|                                      | *John Lambert  *Harry Cohn, M. D.  *Agnes M. Talcott.  *F. W. Peterson                     | Director of vital statistics.  |
|                                      | Mona Bettin, M. D.   | Chief bacteriologist.  |
|                                      | *Morris S. Siegel  | Director of housing and sanitation.  |
|                                      | *L. G. Clark, D. V. M.<br>*H. Manning Elliott, M. D.                                       | Director of meat inspection  |
|                                      | *Lola Pedlow, M. D   | Director of venereal clinic (female).  |
|                                      | Lyle McNeile, M. D*C. K. Stewart   | Director of rodent division  |
|                                      | *J. M. Cain  | Director of quarantine and morbidity division.   |
|                                      | *L. V. Dieter, D. Phar*Lillian Kositza, M. D   | Director of laboratories. Director, child hygiene division.                                |
| Modesto                              | *Lillian Kositza, M. D. *E. F. Reamer, M. D. Jacob M. Furstman, M. D.                      | Director, child hygiene division. County health officer. District health officer.          |
| Oakland                              | *N. N. Ashley, M. D.<br>Calvert L. Emmons, M. D.   | Health officer. City health officer.   |
| OntarioPalo Alto                     | *Louis Olsen, S. E.  | Health officer.  |
| PasadenaPomona 3                     | *Louis Olsen, S. E<br>*Wilton L. Halverson, M. D., P. H. D.<br>*Madison U. Stoneman, M. D. | Do. District health officer.   |
| RedlandsRichmond                     | F. H. Folkins, M. D.<br>*Charles R. Blake, M. D.   | Secretary, board of health. Commissioner of health.  |
| Riverside                            | *W. A. Jones, M. D.  | Health officer.  |
| Sacramento                           | *Herbert F. True, M. D<br>*R. M. Fortier, M. D   | Do.<br>County health officer.  |
| San Bernardino<br>San Diego          | G. Stirling Landon, M. D. *Alex M. Lesem, M. D.  | City health officer. Director of public health.  |
| San Francisco:<br>Department of pub- | Health Advisory Board: J. W. Ward, M. D., Chairman T. J. Lenehan                           | •,   |
| lic health.                          | T. J. Lenehan  |  |
|                                      | Lawrence Arnstein J. Bender Frank H. McKevitt, D. D. S                                     | *  |
|                                      | Frank H. McKevitt, D. D. S<br>Langley Porter, M. D   |  |
|                                      | W. C. Voorsanger, M. D<br>Consultants:   |  |
|                                      | P. J. Hanzlik, M. D.<br>C. G. Hyde, C. E.  |  |
|                                      | C. G. Hyde, C. E<br>C. D. Leake, Ph. D   | • • •  |
|                                      | C. D. Leake, Ph. D   |  |
|                                      | A. C. Reed, M. D. Alanson Weeks, M. D.   |  |
| ļ                                    | Executive Staff:   |  |
|                                      | *J. C. Geiger, M. D<br>*C. M. Wollenberg, Ph. G  | Director of public health. Director of institutions and superintendent, Laguna Honda Home. |
|                                      | *E. E. Sappington, M. D<br>*L. M. Wilbor, M. D   | Assistant Director of public health.<br>Superintendent, San Francisco Hospital.            |
|                                      | •W. C. Van Deventer, M. D  | Resident physician and superintendent, Hassler Health Home.                                |
|                                      | Edmund Butler, M. D.   | Chief surgeon, emergency hospital service.   |
|                                      | *J. I. O'Dea<br>George H. Becker, M. D   | Chief steward, emergency hospital service.  Director, bureau of communicable               |
|                                      |  | diseases.  |
|                                      | R. W. Burlingame, M. D.<br>*P. S. Barrett, M. D.   | Resident physician, isolation division.<br>Director, bureau of child hygiene.              |
|                                      | *Ernestine Schwab<br>Olga Bridgman, M. D   | Director, division of field nursing.<br>Chief, division of mental hygiene.                 |
|                                      | Robert Grosso, D. D. S   | Chief, division of dental hygiene.   |
|                                      | *T. P. Lydon<br>*J. J. Burke   | Director, bureau of food and milk.<br>Chief, food and restaurant inspection.               |
|                                      | *H. Schwab   | Chief, pasteurizing plant inspection.  Acting chief, meat and market inspection.           |
|                                      | *F. W. Orme, D. V. M<br>*A. B. Crowley   | Chief, abattoir inspection.  |
| Under supervision of D               | or. J. L. Pomeroy, health officer of Los   |  |

<sup>&</sup>lt;sup>3</sup> Under supervision of Dr. J. L. Pomeroy, health officer of Los Angeles County, Hall of Justice, Los Angeles, Calif.

| City                                     | Name of health officer  | Official title   |
|--|---|--|
| California—Continued.                    |   |  |
| San Francisco—Contd.                     | Executive Staff—Continued.  |  |
|  | *H. P. Thyle  | Chief, housing inspection.   |
|  | *Hubert James<br>*Kathryn B. Walker, M. D   | Chief, plumbing inspection.  Bacteriologist-in-charge, division of |
|  | 1   | I Dacteriology-serology.   |
|  | *Clinton G. Davis, Ph. G.   | I Conjon chemist diminism of chamilature                           |
|  | *P. R. Hennessy   | Senior accountant.   |
| San Jose                                 | *P. R. Hennessy  *R. C. Miller  *Henry C. Brown, M. D.  Luther Michael, M. D.   | Vital statistician.<br>  Health officer.                           |
| San Leandro                              | Luther Michael, M. D.   | District health officer.   |
| San Mateo                                | J. A. Warburton, M. D.  | i ficaith omcer.   |
| Santa Ana                                | *Kenneth H. Sutherland, M. D<br>*Clarence T. Roome, M. D  | County health officer.   |
| Santa Barbara<br>Santa Cruz              | Mahlon D. McPherson, M. D.  | Health officer. City health officer.                               |
| Santa Monica                             |   | Diamina harlah aggara  |
| Santa Rosa                               | **Winini F. Reasner, M. D.  *E. J. Helgren, B. S. in chemistry; Ph. D., Bacteriology.  *George M. Malkin, M. D.  Darius Eshoo, P. H. B., M. D.  *John J. Sippy, M. D.  E. A. Peterson, M. D.  *Charles R. Wylie, M. D., C. P. H.  *Reuben L. Kaufman, M. D., C. P. H. | Health officer.  |
| 5 - 12 G - 1 - 1                         | Ph. D., Bacteriology.   | District backs of  |
| South Gate 3<br>South Pasadena           | Derine Eshoo P H R M D  | District health officer. Health officer.                           |
| Stockton                                 | *John J. Sippy, M. D  | District health officer.   |
| Valleio                                  | E. A. Peterson, M. D.   | Health officer.  |
| Ventura<br>Whittier *                    | *Charles R. Wylie, M. D., C. P. H   | County health officer.   |
| Whittier *                               | *Reuben L. Kaufman, M. D., C. P. H.   | District health officer.   |
| Colorado:<br>Boulder                     | OH I. Morency D V M   | Director of public health.   |
| Colorado Springs                         | *H. L. Morency, D. V. M<br>Omer Rand Gillett, Ph. B., M. D<br>*Theodore L. Williams, M. D   | Health officer.  |
| Denver                                   | *Theodore L. Williams, M. D   | Deputy manager of health and charity.                              |
| Fort Collins                             | T. C. Taylor, M. D.<br>E. H. Munro, M. D.   | City physician.  |
| Grand Junction                           | E. H. Munro, M. D.  | Do.<br>Do.   |
| Greeley<br>Pueblo                        | Leo L. Lux, M. D  | Chief, department of health, sanita-                               |
| 1 46010                                  | 2. 2002, 22. 2  | tion, and inspection.  |
| Trinidad                                 |   | •                            |
| Connecticut:                             |   |  |
| Ansonia<br>Bridgeport                    | •Richard O'Brien Shee M D   | Health officer and registrar.                                      |
| Bristol                                  | Benjamin B. Robbins, M. D.  | City health officer.   |
| Danbury                                  | •Richard O'Brien Shea, M. D.<br>Benjamin B. Robbins, M. D.<br>Felix F. Tomaino, M. D.<br>Thomas F. Plunkett, M. D.  | Do.  |
| DerbyEast Hartford                       | Thomas F. Plunkett, M. D.   | <b>D</b> o.  |
| East Hartford                            | F. Wellington Brecker, M. D<br>Frank Forester Simonton, M. D  | Do.<br>Health officer.   |
| Enfield                                  | Figure Forester Simonton, M. D.   | Hearth officer.  |
| Groton                                   | Frank W. Hewes, M. D. George H. Joslin, M. D., P. H. D.   | Health officer.  |
| Hamden                                   | George H. Joslin, M. D., P. H. D.   | Superintendent of health.  |
| Hartford<br>Manchester                   | *Benjamin G. Horning, M. D., C. P. H<br>D. C. Y. Moore, M. D.   | Health officer.<br>Chairman, board of health.                      |
| Meriden                                  | John E. Stoddard, M. D.   | Health officer.  |
| Middletown                               | John E. Stoddard, M. D.<br>*M. L. Palmieri, M. D., M. P. H  | Do.  |
| Milford<br>Naugatuck                     | Carlton Kellogg Heady, M. D   | Do.  |
| Naugatuck<br>New Britain                 | *Lonie I Dumont M D   | Do.  |
| New Haven                                | *Joseph I. Linde, M. D.   | Do.  |
| New London                               | *Louis J. Dumont, M. D. *Joseph I. Linde, M. D. *Benjamin N. Pennell, D. V. S.  | Do.  |
| Norwalk                                  |   | <b>.</b>   |
| Norwich                                  | Harrison Gray, M. D.<br>Francis I. Nettleton, Ph. B., M. D.   | Do.<br>Commissioner of health.                                     |
| SheltonStamford                          | Paul H. Brown, M. D., D. P. H   | Health commissioner.   |
| Stonington                               |   |  |
| Stratford                                | Harold T. Oesau, M. D   | Health officer.  |
| Torrington                               |   |  |
| Wallingford                              | Edward I Godfrey M D  | Health officer.  |
| Waterbury<br>West Hartford               | Edward J. Godfrey, M. D. Harry B. Smith, M. D., M. P. H. Eugene N. Cozzolino, M. D.   | Director of health.  |
| West Haven                               | Eugene N. Cozzolino, M. D   | Health officer.  |
| Willimantic                              | N. Spector, M. D  | City health officer.   |
| Delaware:                                | Demar Museum M. D.  | Executive secretary, board of health.                              |
| Wilmington<br>District of Columbia:      | Roger Murray, M. D  | Discussive securciary, board of Bearing.                           |
| Washington                               | *George C. Ruhland, M. D  | Health officer.  |
|  | *Daniel L. Seckinger, M. D.   | Assistant health officer.  |
|  | *Arthur G. Cole<br>*James G. Cumming, M. D.   | Chief clerk and deputy health officer.                             |
| Bureau of prevent-) able diseases.       | *Carl C. Dauer, M. D  | Director. Epidemiologist.  |
| Medical inspection                       | *Joseph A. Murphy, M. D   | Director.  |
| of schools.                              | •   |  |
| Food inspection                          | *Reid R. Ashworth, D. V. S  | Do.  |
| Sanitary inspection<br>Vital statistics  | *J. Frank Butts, LL. B  | Do.<br>Do.   |
| Vital statistics<br>Chemical laboratory. | *Joseph B. Irvine   | Do.<br>Do.   |
| Bacteriological labo-                    | *John B. Reed<br>*John E. Noble   | Do.  |
| ratory.                                  |   |  |

<sup>&</sup>lt;sup>2</sup> Under supervision of Dr. J. L. Pomeroy, health officer of Los Angeles County, Hall of Justice, Los Angeles, Calif.

| <u> </u>   |  |   |
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| City   | Name of health officer                                 | Official title  |
| District of Columbia-                            |  |   |
| Continued.<br>Serological labora-                |  | Director.   |
| tory.<br>Child welfare and hy                    |  |   |
| giene service. Tuberculosis                      |  |   |
| Nursing  | *Mrs. Josephine Pittman Prescott                       | .l Do.  |
| Maternity welfare<br>Maternal and child          | J. Bay Jacobs, M. D. *Ella Oppenheimer, M. D.          | Medical director. Director.                               |
| welfare.<br>Public health in-                    | *Melvin P. Isaminger, M. D                             | . Do.   |
| struction. Public health engi-                   | *Claude F. Browning                                    | . Consultant.   |
| neering.<br>Florida:                             | ******* P  | Wastah affican  |
| Daytona Beach<br>Gainesville                     |  | Health officer.   |
| Jacksonville<br>Key West                         |  | City health officer.                                      |
| Lakeland<br>Miami                                | .  J. D. Griffin, M. D                                 | Health omcer and city physician.                          |
| Orlando  | Claude Anderson, M. D                                  | City physician.   |
| Pensacola<br>St. Augustine                       | A. L. Stebbins, M. D                                   | Director, county health department.  City health officer. |
| St. Petersburg                                   | *Frederick F. Kumm, M. D.                              | Do.   |
| Sanford<br>Tallahassee                           | *Leander Johnson Graves, M. D                          | Do.<br>Director, county health unit.                      |
| Tampa<br>West Palm Beach                         | . J. R. Mckachern, M. D                                | City health officer.                                      |
| Georgia:   |  |   |
| AlbanyAthens                                     |  | Health officer. County commissioner of health.            |
| Atlanta  | *J. P. Kennedy, M. D                                   | City health officer.                                      |
| Augusta<br>Brunswick                             | I *M E Winchester M D D P H                            | Commissioner of health. Do.                               |
| Columbus<br>Decatur                              | . William Edgar Mayner, M. D                           | City health officer.                                      |
| Griffin  | 4m1 0 172 16 T   | Health officer.   |
| Lagrange   | S. C. Rutland, M. D                                    | County health officer.<br>Health officer.                 |
| Rome   | *B. V. Elmore, Ph. G., M. D.                           | Commissioner of health.                                   |
| Savannah Thomasville                             | *Victor H. Bassett, M. D<br>*Herbert F. Readling, M. D | Health officer.<br>County commissioner of health.         |
| Valdosta<br>Waycross                             | *Gordon T. Crozier, M. D., D. P. H.                    | Commissioner of health.                                   |
| Idaho:   | 1  | <del>-</del> '  |
| Boise<br>Pocatello                               | *R. C. Taylor** *C. A. Butler**                        | City health officer. Do.                                  |
| Illinois:<br>Alton                               |  | Health commissioner.                                      |
| Aurora   | C. C. Potter, M. D                                     | City health commissioner.                                 |
| Belleville<br>Berwyn                             | *George F. Schilling *Eugene K. Preis, M. D            | Health officer.<br>Health director.                       |
| Bloomington                                      | Paul Kionka, M. D                                      | Do.   |
| Blue Island<br>Brookfield                        | l  | Commissioner of health.                                   |
| CairoCalumet City                                | C. L. Weber, M. D<br>Andrew Nady, M. D                 | Health officer.<br>Health commissioner.                   |
| Canton   |  |   |
| Centralia<br>Champaign                           | G. N. Welch, M. D.                                     | Health officer.   |
| Chicago  | *Herman N. Bundesen, M. D                              | President, board of health. Assistant to the president.   |
|  | Joel I. Connolly<br>Louise E. Schmidt, M. D            | Secretary, board of health.                               |
| Communicable dis-                                | Paul F. Krueger Isaac D. Rawlings, M. D                | Chief, sanitary office.<br>Chief of section.              |
| eases section.<br>Child welfare section          | Henry C. Niblack, M. D<br>John L. White, M. D          | Do.   |
| Laboratories and re-<br>search section.          | John L. White, M. D                                    | Do.   |
| Dairy-products sec-<br>tion, city division.      | William F. Guerin                                      | Chief.  |
| Administrative serv-<br>ice section.             | Henry L. Porsche                                       | Chief clerk.  |
| Epidemiology<br>Syphilis and gonor-              | William I. Fishbein, M. DGeorge G. Taylor, M. D        | Epidemiologist.<br>Director.                              |
| rhea section.<br>Maternal and infant<br>welfare. | Edward J. Denenholz, M. D                              | Do.   |
| Chicago Heights                                  | Hugo Long, M. D.<br>Frank J. Pokorney, Ph. G., M. D    | Health officer.<br>Health commissioner.                   |
| Danville   | C. M. Cook. M. D                                       | Director of health.                                       |
| DecaturEast Moline                               | P. A. Steele, M. D.<br>John Henry Fowler, M. D.        | Do.<br>Health officer.                                    |

| City   | Name of health officer   | Official title  |
|--|--|---|
| Illinois—Continued.                            |  |   |
| East St. Louis                                 |  |   |
| Elgin  | *Frank V. Lee<br>Frank D. Leahy, M. D.   | Health officer.   |
| Elmhurst<br>Elmwood Park                       | Frank D. Leany, M. D.  | Health commissioner.  |
| Evanston                                       | *Wington H Tucker M D  | Commissioner of health.   |
| Forest Park                                    | George J. Baumgartner, M. D  | Do.   |
| Freeport                                       | H. J. Stickle. M. D  | Health commissioner.  |
| GalesburgGranite City                          | E. D. Wing, M. D<br>M. E. Kirpatrick   | Ob 1  |
| Harrisburg                                     | *M. E. Kirpatrick B. E. Montgomery, M. D. John W. Blair, M. D. Donald E. Rossiter, M. D. I. O. Hardesty, M. D.  *E. J. Higgins, M. D.  *C. K. Smith, M. D.  *I. H. Kopp.  T. C. McDougal, M. D.  *Arlington Ailes, M. D., C. P. H. | City health physician.  |
| Harvey   | John W. Blair, M. D.   | Health officer.   |
| Highland Park                                  | Donald E. Rossiter, M. D.  | President, board of health.   |
| Jacksonville<br>Joliet                         | I. O. Hardesty, M. D.  | County health officer.<br>Health commissioner.  |
| Kankakee                                       | *C. K. Smith. M. D   | Health officer.   |
| Kewanee  | *L. H. Kopp  | Sanitary inspector.   |
| La Grange                                      | T. C. McDougal, M. D.  | Health officer.   |
| La Salle                                       | *Arlington Ailes, M. D., C. P. H   | Health commissioner.<br>Health officer  |
| Lincoln<br>Mattoon                             | George A. Seller Lovell A. Neal, M. D. Charles M. Weinberg, M. D. Anthony P. Vincenti, M. D.   | City health officer.  |
| Maywood  | Charles M. Weinberg, M. D  | Health commissioner.  |
| Maywood  | Anthony P. Vincenti, M. D  | Commissioner of health.   |
| Moline   | C. C. Ellis, M. D.   | City physician.<br>City health officer.   |
| Oak Park                                       | C. C. Ellis, M. D. C. O. Hamilton, M. D. Frank S. Needham, M. D. E. P. Hathaway, M. D. Randolph F. Olmsted, M. D.  | Commissioner of health.   |
| Ottawa   | E. P. Hathaway, M. D.  | Health officer.   |
| Park Ridge                                     | Randolph F. Olmsted, M. D  | Commissioner of health.   |
| Pekin  | C. G. Mideliniani, I d. G., M. D.  | Health officer.   |
| Peoria   | *S. M. Miller, M. D.   | Commissioner of health. Public health officer.  |
| Quincy<br>Rock island                          | Edward B de Silva, M. D  | Commissioner of health.   |
| Rockford                                       | N. O. Gunderson, M. D.   | Do.   |
| Springfield                                    | *H. O. Collins, M. D. Edward B. de Silva, M. D. *N. O. Gunderson, M. D. H. H. Tuttle, M. D.  | Superintendent of health.   |
| Sterling                                       | H. M. J8000S, M. D   | Health officer.   |
| StreatorUrbana                                 |  |   |
| Wonkeran                                       | *Stanley I. Leckie   | City health inspector.  |
| Waukegan<br>West Frankfort                     | *Alta McGhee   | Fire chief.   |
| Wilmette                                       | *Alta McGhee<br>Martin H. Seifert, Ph. G., M. D<br>*Howard A. Orvis, M. D., M. S. in   | Commissioner of health.<br>Health officer.  |
| Winnetka                                       | P. H.  | Health officer.   |
| Indiana:                                       |  |   |
| Anderson                                       | George B. Metcalf, M. D.   | Secretary, city board of health.  |
| Bedford  | Charles Blackburn Charles E. Holland, M. D. Herman W. Smellser, M. D. Fred N. Daugherty, M. D. D. R. Johns, M. D. A. W. Kistner, M. D. W. Merle Hoppenrath, M. D.  | Health commissioner. Secretary, city board of health. City and county health commissioner Secretary, board of health. Health officer. |
| Bloomington                                    | Herman W Smelser M D   | City and county health commissione  |
| Connersville<br>Crawfordsville                 | Fred N. Daugherty, M. D.   | Secretary, board of health.   |
| East Chicago                                   | D. R. Johns, M. D  | Health officer.   |
| Elkhart  | A. W. Kistner, M. D.   | Secretary, board of health.   |
| Elwood   | Thomas F Paitz M D   | Secretary, city board of health.  |
| EvansvilleFort Wayne                           | Thomas F. Reitz, M. D<br>Karl C. Eberly, M. D<br>Milton T. McCarty, M. D   | Secretary and health commissioner.<br>City health officer.  |
| Frankfort                                      | Milton T. McCarty, M. D  | City health officer.  |
| Gary   | G. A. Whippy, M. D. H. C. Groman, Ph. B., M. D. R. F. Frost, M. D. Herman G. Morgan, M. D.   | Health commissioner.  |
| Goshen<br>Hammond                              | G. A. Whippy, M. D.  | City health officer. Secretary, board of health.  |
| Hammond<br>Huntington                          | D F Freet M D  | City health officer.  |
| Indianapolis                                   | *Herman G. Morgan, M. D  | Secretary, board of health  |
| Indianapolis<br>Jeffersonville                 | Sam Adair, M.D. Will J. Martin, M. D. Harry J. Laws, M. D. Jon Nelson Kelly, M. D.   | City health commissioner.   |
| Kokomo   | Will J. Martin, M. D   | Secretary, board of health. Do.   |
| Lafayette                                      | Harry J. Laws, M. D.   | Health officer.   |
| La Porte<br>Logansport                         | *Rov J. Beattie  | Health inspector.   |
| Marion   | G R Daniels M D  | Secretary, board of health. Secretary and health officer. City health officer.  |
| Marion<br>Michigan City                        | l Norman Richard Carlson, IVI. D   | City health officer   |
| Mishawaka                                      | Francis W. Logan, M. D.  | I Contatory hourd of Dealen.  |
| Muncie<br>New Albany                           | Jules F. LaDuron, M. D<br>John P. Gentile, M. D  | Becretary, City Dozi Tol Hoaren.  |
| New Castle                                     | Walter M. Stout, M. D.   | Secretary, board of nearth.   |
| PeruRichmond                                   | F. M. Lvnn, M. D   | Do.   |
| Richmond                                       | Charles J. Hufnagel, M. D.   | Do.<br>Do.  |
| Shelbyville                                    | FRUITINGSH, M. U   | Secretary and health officer.   |
| South Bend<br>Terre Haute                      | Maurice B. Van Cleave. M. D.   | Secretary, city board of health.  |
| Vincennes                                      | Norman E. Beckes, M. D   | Secretary, board of health.   |
| Whiting  | Paul Tindall, M. D. F. R. N. Carter, M. D. Maurice B. Van Cleave, M. D. Norman E. Beckes, M. D. J. A. McCarthy, M. D.  | Health commissioner.  |
| lowa:  |  |   |
|  | B. D. Atchley, M. D  | Health officer.   |
| Ames   |  | I To the secondary boolth unit  |
| Boone  | *Erwin C. Sage. M. D., C. P. H   | Director county meaning and   |
| BooneBurlington                                | V. H. Hasek, M. D., C. P. H  | Board of health physician.  |
| Boone<br>Burlington<br>Cedar Rapids<br>Clinton | V. H. Hasek, M. D., C. P. H.   | Board of health physician.  |
| Boone<br>Burlington<br>Cedar Rapids            | V. H. Hasek, M. D., C. P. H  | Board of health physician.  |

| City                              | Name of health officer   | Official title   |
|-----------------------------------|--|--|
| Iowa—Continued.                   |  |  |
| Dubuque                           | W. J. Connell, M. D., M. P. H  | Director of health.  |
| Fort Dodge<br>Fort Madison        | I I M Conner M D   |  |
| Iowa City                         | E. W. Casey, M. D. Charles A. Dimond, M. D. R. S. Grossman, M. D. C. M. Franchere, M. D. Rodney M. Arey, M. D. Edward A. McMurray, M. D.   | City physician. Health officer.  |
| Keokuk                            | Charles A. Dimond, M. D.   | Physician to board of health.  |
| Marshalltown                      | R. S. Grossman, M. D.  | Health officer.  |
| Mason City                        | C. M. Franchere, M. D.   | City health drector. City health officer. City health physician.                     |
| Muscatine                         | Kodney M. Arey, M. D   | City health officer.   |
| Newton<br>Oskaloosa               | O. J. DuBois, D. O   | Health officer.  |
| Ottumwa                           | 1  |  |
| Sioux City                        | *W. S. Petty, M. D   | Commissioner of public health.   |
| Waterloo                          | *W. S. Petty, M. D<br>*R. W. Driver, M. D  | City health officer.   |
| Kansas:                           |  | i e  |
| Arkansas City                     | P. F. Theis, M. D.   | Do. County health officer.   |
| Atchison Chanute                  | W. K. Fast, M. D.<br>James A. Butin, M. D.   | City health officer.   |
| Coffeyville                       | P. S. Townsend, M. D.  | City physician.  |
| Dodge City                        | X. F. Alexander, M. D.   | County health officer.   |
| Eldorado                          |  |  |
| Emporia<br>Fort Scott             | C. H. Munger, M. D.  | County health officer.   |
| Fort Scott                        | C. L. Mosley, M. D.  | City health officer.   |
| Hutchinson                        | Guy K. Walker, M. D.   | City physician.<br>City and county health officer.                                   |
| Independence                      | C. H. Munger, M. D. C. L. Mosley, M. D. Guy R. Walker, M. D. E. C. Wickersham, M. D. W. F. Lunsford, M. D., M. P. H. James M. Mott, M. D. Alonzo Ray Adams, M. D. D. L. Evans, M. D. | City and county nearth omcer.  |
| Kansas City<br>Lawrence           | James M. Mott. M D   | Superintendent of public health.   |
| Leavenworth                       | Alonzo Ray Adams, M. D.  | City physician.  |
| Manhattan                         | D. L. Evans, M. D. W. F. Schroeder, M. D. L. A. Proctor, M. D. William G. Rinehart, Ph. G., M. D.  | County health officer.   |
| Newton                            | W. F. Schroeder, M. D.   | County physician.  |
| Parsons<br>Pittsburgh             | L. A. Proctor, M. D.   | City health officer.   |
| Pittsburgh                        | William G. Rinehart, Ph. G., M. D.   | Do.  |
| Salina                            | E. M. Sutton, M. D. C. B. Stephens, M. D.  | County health officer. City health officer.  |
| TopekaWichita                     | J. E. Wolfe, M. D.   | Director of public welfare.  |
| Kentucky:                         | J. D. Wolle, Mr. D.  | Director of public wenters.  |
| Ashland                           | *Robert D. Higgins, M. D., M. P. H.  | Director, county health department.  |
| Bowling Green                     | I *G. M. Wells, M. D   | County health officer.   |
| Covington                         | Theodore Sallee, M. D. Frank H. Southgate, M. D.   | City physician.  |
| Fort Thomas                       | Frank H. Southgate, M. D.  | Health officer.  |
| Frankfort                         | R. M. Coblin, M. D.  *E. W. Sigler, M. D., C. P. H. Philip E. Haynes, M. D.  *Charles M. Moore, M. D.  *Hugh R. Leavell, M. D.   | City health officer.   |
| Henderson<br>Hopkinsville         | Philip F Hoynes M D  | Director, county health department.<br>City health officer.<br>City health officer.  |
| Lexington                         | *Charles M Moore M D   | City health officer  |
| Louisville                        | *Hugh R. Leavell, M. D.  | Director of public health.   |
| Newport.                          |  |  |
| Owensboro                         | A. L. Kincheloe, M. D.<br>*R. E. Teague, M. D., C. P. H  | County health director.  |
| Paducah                           | *R. E. Teague, M. D., C. P. H  | County health officer.   |
| Louisiana:                        | P P Wellow M D   | Descident site board of health   |
| Alexandria<br>Baton Rouge         | R. B. Wallace, M. D. T. J. McHugh, M. D.   | President, city board of health.<br>City health officer.                             |
| Bogalusa                          | J. H. Slaughter, M. D  | City physician.  |
| Lafayette                         | G. A. Martin, M. D   | Do.  |
| Lake Charles                      | H. B. White, M. D  | Health officer and president, board of   |
|                                   | •  | health.  |
| Monroe                            | Tomas Madian Database 36 5   | Commintandent of mahlis haste  |
| New Orleans                       | James Madison Batchelor, M. D<br>*William James Sandidge, M. D., C. P.   | Superintendent of public health. Director, city-parish health unit.                  |
| Shreveport                        | H.   | Director, orey-parish hearth unit.   |
| Maine:                            |  |  |
| Auburn                            | *Shirley J. Davis, R. N  | Health officer.  |
| Augusta                           | George A. Coombs, M. D.  | Do.  |
| Bangor                            | Harry D. McNeil, M. D.   | Do.  |
| Bath                              | Joseph I. Smith, M. D<br>Oscar Perrault, M. D  | Do.  |
| Biddeford Lewiston                | *Robert I. Wiseman Ir M D  | Do.<br>Do.   |
| Portland                          | *Robert J. Wiseman, Jr., M. D.<br>*Thomas Tetreau, M. D.   | Local health officer.  |
| Sanford                           | *W. H. Kelly, M. D   | Do.  |
| South Portland                    | Waldo T. Skillin, M. D.  | Do.  |
| Waterville                        | *Arthur R. Daviau, M. D  | Health officer.  |
| Westbrook                         | Patrick H. Welch   | Local health officer.  |
| Maryland:                         | James J. Murphy, M. D  | City health officer.   |
| Annapolis                         | sames s. murphy, M. D.   | Civy measur omeot.   |
| Administration                    | *Huntington Williams, M. D., D. P. H.  | Commissioner of health.  |
|                                   | *William H. F. Warthen, M. D   | Assistant commissioner of health.  |
| Bureau of vital                   | *W. Thurber Fales, Sc. D   | Director.  |
| statistics.                       | •  | D.11.  |
| D h 14h                           | *Dorothy Yoe Kalben  | Editor.  |
| Bureau of health                  |  |  |
| information.                      | *C ToDow Eming   |  |
| information.<br>Bureau of labora- | *C. LeRoy Ewing  | Director.  |
| information.                      | •  |  |
| information.<br>Bureau of labora- | C. Howe Eller, M. D  | Health officer, eastern health district.<br>Health officer, western health district. |
| information.<br>Bureau of labora- | •  | Health officer, eastern health district.   |

| City   | Name of health officer  | Official title  |
|--|---|---|
| Maryland—Continued. Baltimore—Contd. Medical section: Bureau of com- | *David H. Andrew, M. D.   | Disastes  |
| municable dis-<br>eases.   | _   | Director.   |
| Sydenham Hos-<br>pital.  | *Myron G. Tull, M. D.   | Superintendent.   |
| Bureeu of tuber-<br>culosis.   | *Phineas J. Sparer, M. D  | Director.   |
| Bureau of venereal diseases.   | *Ferdinand O. Reinhard, M. D  | Do.   |
| Bureau of occupa-<br>tional diseases.                                | *John M. McDonald, M. D   | Do.   |
| Bureau of child<br>welfare.  | *William K. Skilling, M. D  | Do.   |
| Division of school hygiene.  | *H. Warren Buckler, M. D  | Chief.  |
| Dental clinics Public health nursing.                                | Morris Cramer, D. D. S<br>*Jane B. Laib, R. N   | Supervisor. Director.   |
| Sanitary section<br>Bureau of milk                                   | *R. S. Craig<br>*Ivan M. Marty  | Do.<br>Do.  |
| control. Bureau of food  | *Ferdinand A. Korff   | Do.   |
| control. Bureau of meat in-  | *William Brenner, D. V. S   | Chief.  |
| spection. Bureau of environ-<br>mental hygiene.                      | *William H. Schulze, Phar. D  | Director.   |
| Cumberland<br>Frederick  | *Joseph P. Franklin, M. D<br>*Elmer C. Kefauver, M. D   | City health officer.<br>Do.   |
| Hagerstown Salisbury Massachusetts:                                  | *Elmer C. Kefauver, M. D.<br>*W. R. Cameron, M. D., C. P. H<br>*S. H. Hurdle, M. D                          | County health officer.<br>Do.                                       |
| AdamsAmesbury  | James F. McLaughlin, M. D<br>Ralph T. Frisbee   | Board of health physician. Agent, board of health.                  |
| ArlingtonAthol   |   | Do.   |
| Attleboro  | Marion B. Sibley, M. D. Ralph P. Kent, M. D. *Keble B. Perine *Alonzo O. Woodbury *Henry F. R. Watts, M. D. | Secretary, board of health.  Health officer.  Agent board of health |
| Belmont Beverly  | *Alonzo O. Woodbury   | Agent, board of health.<br>Clerk and agent, board of health.        |
| Boston<br>Divisions:<br>Communicable                                 | *Joseph A. Cahalan  *Frederick J. Bailey, M. D  | Health commissioner. Secretary. Deputy commissioner.                |
| diseases.<br>Bacteriological   | *Karl R. Bailey, M. D   | Do.   |
| laboratory.<br>Food  | P. H. Mullowney, D. V. M  | Do.   |
| Child hygiene<br>Housing and sani-                                   | Charles F. Willinsky, M. D<br>George J. McElroy   | Do.<br>Inspector in charge.   |
| tary.<br>Tuberculosis  | *George O'Donnell, M. D   | Deputy commissioner.  |
| Vital statistics   | *Iosanh W Monahan   | Do.<br>Health officer.  |
| BraintreeBrockton  | *Frederick C. Johnson Charles D. McCann, M. D *Francis P. Denny, M. D Simon B. Kelleher, M. D               | Do.   |
| Brookline  | Francis P. Denny, M. D.   | Do.<br>Medical inspector.   |
| Cambridge  | John F. Welch   | Health officer.   |
| Chicopee   | *Paul G. Martel   | Agent, board of health.   |
| Clinton  | *Frederick E. Murphy  | Health officer. Do.   |
| Danvers<br>Dedham  | Thomas J. Brennan   | Do.   |
| Easthampton  | Charles J. Hanson, M. D.  | Agent, board of health.   |
| Everett  | *William F. Hogan   | Do.   |
| Fairhaven  | *W. Fred Delano<br>*Patrick H. Walsh, M. D  | Acting health commissioner.   |
| Fall River Fitchburg   | *Fred R. Brigham  | Agent, board of health.   |
| Framingham   | *Fred R. Brigham<br>*David Moxon, C. P. H   | Do.   |
| Gardner  | *W/ D O'Donnoll   | Do.   |
| Gloucester   | *Patrick E. Curley  | Sanitary inspector.  Health agent and milk inspector.               |
| Greenfield   | *Frederick W Morse  | Amont boord of boolth   |
| Holvoke  | Patrick E. Curley George P. Moore. Frederick W. Morse. Daniel P. Hartnett, Ph. G. Daniel J. Costello.       | Agent and health officer. Clerk, board of health.                   |
| Lawrence   | *Daniel J. Costello   | Clerk, board of health.   |
| Leominster   | Hugh E. Crain   | Agent, board of health.  Director of health and hygiens.            |
| Lowell   | *Hugh E. Crain<br>*John J. McNamara, S. E., M. D<br>James A. Dumas, M. D                                    | Commissioner of public health.                                      |
| Lynn<br>Malden   | *May C. Welsh   | Clerk and agent, board of health.                                   |
| Marlboro   | Charles Wade  | Clerk and agent, board of health.  Agent, board of health.          |
| Medford  | Albert B. Corell M. D.  | Chairman, board of health.  |
| Melrose  | Albert E. Small, M. D   | Board of health physician.  |
| TATACHTETT   | Walter U. Chanin  | Sanitary inspector.   |
| MILLIORG   | W MINE D. CHADID  |   |
| Milford<br>Milton<br>Natick  | John D. Oddy, M. D. Walter H. Chapin Paul W. Kimball, M. D. Charles D. Colford, D. M. D.                    | Agent, board of health.<br>Do.                                      |

| City                   | Name of health officer  | Official title  |
|------------------------|---|---|
|                        | TVAILE OF BOSTON ORDOR  | Omciai citie  |
| Massachusetts-Contd.   |   |   |
| Needham<br>New Bedford | *G. Donald Buckner.<br>*Archibald N. Senesac, M. D.<br>*Wilbur N. O'Brien, Ph. G.     | Health officer and milk inspector.  |
| Newburyport            | *Wilbur N O'Brian Ph C  | Agent and medical officer. Agent, board of health.                                |
| Newton.                | *H. D. Chope, M. D., M. P. H.   | Director of public health.  |
| North Adams            |   | Agent, board of health.   |
| North Attleboro        | Daniel J. Kiley, M. D   | _  Health officer.  |
| Northampton            | #Tohm A Chaman  |   |
| Norwood<br>Peabody     | *John A. Shannon<br>*Percy F. Murray  | Agent, board of health. Do.   |
| Pittsfield             | *Willys M. Monroe, M. D., M. P. H.  | Health commissioner.  |
| Plymouth               | William E. Curtin, M. D.  | Board of health physician.  |
| Quincy                 | William E. Curtin, M. D   | Health commissioner.  |
| Revere                 | *Patrick C. Bruno<br>*John J. McGrath   | Health officer and milk inspector.  |
| SalemSaugus            | Jones & Clark M D   | Agent, board of health. Chairman, board of health.                                |
| Somerville             | Frank L. Morse, M. D  | Medical inspector and bacteriologist.   |
| Southbridge            | James A. Clark, M. D. Frank L. Morse, M. D. Charles Simpson, M. D. L. J. Smith, M. D. | Chairman, board of health.  |
| Springfield            | *L. J. Smith, M. D.   | Commissioner of public health.  |
| Stoneham               | *George A. Hinchcliffe *Clarence W. Horton John I. McNamara, M. D                     | Health officer.   |
| Swampscott<br>Taunton  | Ichn I McNamara M D   | Do.<br>Chairman, board of health.   |
| Wakefield              | l David Taggart   | I Agent and health officer  |
| Waltham                | *Joseph T. Mulcahy  | Director of public welfare  |
| Watertown              | I*Fred W. Bodge   | Health officer.   |
| Webster<br>Wellesley   | Arthur D. Chartier, M. D. Curtis M. Hilliard  | Board of health physician.  |
| Westfield              | R. M. Marr, M. D.   | Chairman, board of health.  |
| West Springfield       | John J. Lysaght   | Agent, board of health.   |
| Weymouth               | F. L. Doucett, M. D.  | Clerk, board of health.   |
| Winchester             | *Maurice Dinneen  | Clerk, board of health. Agent, board of health.                                   |
| Winthrop<br>Woburn     | *William D. Childress *Edward F. Gorman   | Health officer.   |
| Worcester              | *Peter O. Shea, M. D.   | Agent and secretary, board of health.  Director of health and school hygiene.     |
| Michigan:              |   | 1   |
| Adrian                 | W. S. Mackenzie, M. D.<br>Francis J. O'Donnell, M. D.                                 | Health officer.   |
| Alpena                 | Francis J. O'Donnell, M. D.   | City health officer. Health officer.  |
| Ann ArborBattle Creek  | John A. Wessinger, M. D., P. H. D., A. A. Hoyt, M. D.                                 | Health officer and registrar  |
| Bay City               | George W. Moore, M. D.  | Health officer.   |
| Benton Harbor          |   |   |
| Dearborn<br>Detroit    | C. A. Christensen, M. D<br>Board of health:   | Commissioner of health and sanitation.  |
| Detroit                | William M. Walker   | President.  |
|                        | William A. Evans, M. D.   | Vice president.   |
|                        | Gustavus D. Pone  | _   |
|                        | Ledru O. Geib, M. D.  | Compton   |
|                        | Ledru O. Geib, M. D. F. Gardner Legg, B. C. E. Executive staff, department of health: | Secretary.  |
|                        | *Henry F. Vaughan, P. H. D<br>Bert U. Estabrook, M. D                                 | Commissioner.   |
|                        | Bert U. Estabrook, M. D   | Deputy commissioner.  |
| 1                      | *Fred M. Meader, M. D   | Deputy commissioner and director of   |
| I                      | *Joseph Molner, M. D., C. P. H.   | medical services. Director of school health service.                              |
|                        | *Bruce H. Douglas, M. D   | Tuberculosis controller.  |
| i                      | *Bruce H. Douglas, M. DArthur P. Derby, M. D  | Director of tuberculosis clinics.   |
| i                      | G. M. Byington, M. D.   | Director of medical relations.  |
| ĺ                      | *Joseph A. Kasper, M. D.<br>*Carey P. McCord, M. D.                                   | Director, public health laboratory.   |
| l                      | *F. Gardner Legg, B. C. E   | Director, bureau of industrial hygiene.<br>Director, bureau of sanitary engineer- |
| I                      | 33,   | ing.  |
|                        | *Edward C. Schultz  | Director, bureau of dairy and food inspection.                                    |
|                        | *John F. Roehl  | Director, division of special investiga-<br>tion.                                 |
|                        | *Loren W. Shaffer, M. D   | Director, division of social hygiene.   |
|                        | *Grace Ross, R. N.<br>*Franklin H. Top, M. D., C. P.                                  | Director, division of nursing.  Director, division of epidemiology.               |
| i                      | Н.  | - 100001, alveron of opinioniology.   |
|                        | Russell W. Alles, M. D<br>Bart U. Estabrook, M. D                                     | Director, prenatal clinics. Acting director, division of child wel-               |
|                        | *W H Phillips D D c   | fare.   |
| 1                      | *W. H. Phillips, D. D. S<br>*Gains E. Harmon, M. D                                    | Director, school dental service. Director, medical statistics.                    |
| 1                      | *G. Arthur Blakeslee  | Director, division of vital statistics.   |
| i                      | *Sophia Halsted, M. S.<br>*M. Eleanor McGarvah, R. N                                  | Director, division of nutrition.  |
| 1                      | *M. Eleanor McGarvah, R. N  | Legal aid.  |
| 1                      | *Mary P. Connolly, R. N   | Director, division of health education<br>and editor "City Health."               |
| 1                      | *Emma A. Boldt  | Assistant secretary.  |
| i i                    | *George E. Phillips   | Superintendent, Herman Kiefer Hos-  |
| 1                      | i   | pital.  |
| 1                      | *Henry S. Willis, M. D  | Superintendent, William H. Maybury  |
| •                      | •   | Sanitorium.   |

| City                       | Name of health officer  | Official title  |  |  |  |  |
|----------------------------|---|---|--|--|--|--|
| Michigan—Continued.        | i   |   |  |  |  |  |
| Ecorse                     |   |   |  |  |  |  |
| Escanaba<br>Ferndale       | *George Hays, M. D. *John L. Lavin, M. D. *Benjamin H. Warren, M. D. Stephen S. Skrzycki, M. D. William N. Braley, M. D. W. M. Tappan, M. D. L. I. Browning, M. D.  |   |  |  |  |  |
| Flint                      | *George Hays, M. D.   | Executive health officer.                               |  |  |  |  |
| FlintGrand Rapids          | *John L. Lavin, M. D.   | Health officer.<br>Health commissioner.                 |  |  |  |  |
| Grosse Pointe              | Stephen S. Skrzycki, M. D   | Do.   |  |  |  |  |
| Highland Park              | William N. Braley, M. D   | Health officer.   |  |  |  |  |
| Holland                    | W. M. Tappan, M. D.   | Do.<br>Do.  |  |  |  |  |
| Iron Mountain<br>Ironwood  | J. L. Browning, M. D.   | City health officer.                                    |  |  |  |  |
| lackson                    | C. C. Urquhart, M. D.  E. J. MacLachlan, D. V. M.  I. W. Brown, M. D.   | Health officer.   |  |  |  |  |
| Kalamazoo                  | *I. W. Brown, M. D.<br>*E. R. Van der Slice, M. D.  | Director of health and welfare. Director of health.     |  |  |  |  |
| Lansing Lincoln Park       | Dan R. Herkimer, M. D.  | Health officer.   |  |  |  |  |
| Marguette                  | *Charles P. Drury, M. D.  | Do.   |  |  |  |  |
| Menominee                  | *Lawrence A. Berg, M. DJames A. Humphrey, M. D  | County health officer.<br>Health officer.               |  |  |  |  |
| Monroe<br>Mount Clemens    | James A. Humphrey, M. D   | Health olincer.   |  |  |  |  |
| Muskegon                   | M. E. Stone, M. D   | Do.   |  |  |  |  |
| Muskegon Heights           | M. E. Stone, M. D. O. M. LaCore, M. D. Lawrence M. Rutz, M. D.  | Do.<br>Commissioner of health.                          |  |  |  |  |
| Niles.                     | W E Ward M D  | City health officer.                                    |  |  |  |  |
| Owosso<br>Pontiso          | W. E. Ward, M. D. Charles A. Neafie, M. D., M. S. in  | Director of public health.                              |  |  |  |  |
|                            | P. H.   | Health officer.   |  |  |  |  |
| Port Huron                 | A. L. Callery, M. D. Claude A. Smith, M. D.   | Do.   |  |  |  |  |
| River Rouge<br>Royal Oak   |   |   |  |  |  |  |
| Saginaw                    | *Frank A. Poole, M. D.  | Commissioner of public health.                          |  |  |  |  |
| SaginawSault Ste. Marie    | David Littlejohn, M. D., P. H. D  | Director of health department. Health officer.          |  |  |  |  |
| Traverse City<br>Wyandotte | Earl H. Engel, M. D.  | Health commissioner.                                    |  |  |  |  |
| Ypsilanti                  | Frank A. Poole, M. D David Littlejohn, M. D., P. H. D G. A. Holliday, D. D. S., M. D Earl H. Engel, M. D. Bradley M. Harris, M. D   | Health officer.   |  |  |  |  |
| Minnesota:                 | Daniel C Bumbom W D   | Do.   |  |  |  |  |
| Albert LeaAustin           | H. M. Fisch, M. D.  | Chairman, board of health.                              |  |  |  |  |
| Decinord                   | R. A. Beise, M. D   | Do.   |  |  |  |  |
| DuluthFaribault            | Donaid N. Pisch, M. D. H. M. Fisch, M. D. R. A. Beise, M. D.  M. McC. Fischer, M. D.  Norman Lende, M. D. C. N. Harris, M. D. H. B. Troost, M. D.   | Director of public health. Health officer.              |  |  |  |  |
| Hibbing                    | C. N. Harris, M. D.   | Health director.  |  |  |  |  |
| Monkoto                    | H. B. Troost, M. D.   | City health officer.                                    |  |  |  |  |
| Minneapolis                | Francis Edward Harrington, M. D.<br>T. B. Magath, M. D.<br>H. W. Goehrs, M. D.  | Commissioner of health.<br>Health officer.              |  |  |  |  |
| Rochester                  | H. W. Goehrs, M. D.   | City physician.<br>Chief health officer.                |  |  |  |  |
| St. Paul                   | I *Robert B. J. Schoch, D. D  | Chief hearth officer.                                   |  |  |  |  |
| South St. Paul             | O. S. Ely, M. D   | Commissioner of health.  Health officer.                |  |  |  |  |
| Virginia                   | William Vardeman Lindsay, M. D.   | Do.   |  |  |  |  |
| Winona<br>Mississippi:     |   | a   |  |  |  |  |
| Mississippi:<br>Biloxi     | *D. J. Williams, M. D., Gulfport  | County health officer.                                  |  |  |  |  |
| Clarksdale                 | *N. C. Knight, M. D., C. P. H.<br>*John W. Shackelford, M. D., M. P. H.   | Do.   |  |  |  |  |
| Greenwood                  | *Levi A. Barnett, M. D  | Do.   |  |  |  |  |
| Gulfnort                   | *D. J. Williams, M. D.  | Do.<br>Do.  |  |  |  |  |
| Hattlesburg                | *B. D. Blackwelder, M. D., C. P. H.   | D0.<br>D0.  |  |  |  |  |
| Jackson Laurel Laurel      | *Jonn W. Shackelord, M. D., M. T. H.  *Levi A. Barnett, M. D.  *D. J. Williams, M. D.  *B. D. Blackwelder, M. D., C. P. H.  *W. E. Noblin, M. D.  *A. R. Perry, M. D., M. P. H.  *T. Paul Haney, Jr., M. D., C. P. H.  *D. V. Galloway, M. D., M. P. H. | Do.   |  |  |  |  |
| McComb                     | T. Paul Haney, Jr., M. D., C. P. H.   | Do.   |  |  |  |  |
| Meridian                   | *D. V. Galloway, M. D., M. P. H   | Do.<br>Do.  |  |  |  |  |
| Natchez<br>Vicksburg       | *Andrew Hedmeg, M. D*  *F. Michael Smith, M. D  | Do.   |  |  |  |  |
| Missouri:                  | 1   |   |  |  |  |  |
| Cape Girardeau             | C. C. Summers  A. W. Kampschmidt, M. D.   | Health officer.<br>Health commissioner.                 |  |  |  |  |
| Columbia<br>Hannibal       | *E M Lucke M. D.  | Health officer.   |  |  |  |  |
| Independence               | E. M. Lucke, M. D   | City physician and dairy inspector.                     |  |  |  |  |
| Jefferson City             | James Garfield Bruce, M. D  | City physician.  Commissioner of health and sanitation. |  |  |  |  |
| Joplin<br>Kansas City      | V. E. Kenney, M. D  | Health director.  |  |  |  |  |
| Maplewood                  | E. E. Tremain, M. D   | Commissioner of health.                                 |  |  |  |  |
| Moberly                    | C. C. Smith, M. D.  | City physician.   |  |  |  |  |
| St. Charles                | L. E. Belding, M. D.  | City health officer. Do.                                |  |  |  |  |
| St. Joseph<br>St. Louis    | •Jos. F. Bredeck, M. D., P. H. D.   | Health commissioner.                                    |  |  |  |  |
| ~*. LVUIJ                  | *H. I. Spector, M. D  | Assistant health commissioner.                          |  |  |  |  |
|                            | *Jos. C. Willett, D. V. M.  | Chief of laboratories. Chief of food control.           |  |  |  |  |
|                            | *Arthur Kelley<br>*Milton R. Fisher, D. V. M  | Mills controller  |  |  |  |  |
|                            | I W olter K COOK  | A CLINE CHIEF Sanitary Sections                         |  |  |  |  |
|                            | *Harry M. Stamm, D. D. S<br>*Clyde Kane, M. D<br>*Mildred Sanderson, R. N   | Dental supervisor. Acting chief, venereal clinic.       |  |  |  |  |
|                            | *Ulyde Kane, M. D   | Municipal nurses' supervisor.                           |  |  |  |  |
|                            |   | •   |  |  |  |  |

| City                          | Name of health officer   | Official title  |
|-------------------------------|--|---|
| Missouri—Continued.           | !  |   |
| St. Louis—Continued.          | •W C Dillard D V M   | Veterinary meat inspector.                                |
|                               | *W. C. Dillard, D. V. M<br>*H. V. Persells, D. V. M.<br>*C. B. Michael, D. V. M.   | Do.   |
|                               | *C. B. Michael, D. V. M* Downey L. Harris, M. D  | Do.<br>Rabies controller.                                 |
|                               | I &Filmen Decembel   | December of hinths and deaths                             |
|                               | *J. Earl Smith, M. D.  O. W. Noyes, D. V. M.  Arthur H. Knost, D. V. M.  J. E. Mitchell, M. D.   | Epidemiologist.   |
|                               | *Arthur H. Knost, D. V. M  | Supervisor, mest control.<br>Veterinary milk inspector.   |
|                               | *L. A. Rosner, D. V. M.  | Do.   |
| Sedalia                       |  | County health offcer.                                     |
| Springfeld<br>University City | O. P. Hampton, Jr., M. D.  | Health commissioner.                                      |
| Wehster Grove<br>Montana:     | Carl C. Irick, M. D  | Do.   |
| A naconda                     | J. L. O'Rourke, M. D.  | City physician.<br>City health officer.                   |
| Billings                      | I A. E. Stripp, M. D   | City health officer.                                      |
| Butte<br>Great Falls          | *F. L. Watkins, M. D.  | City and county health officer.                           |
| Helena                        | *R. G. M. Ehlers, M. D   | City-county health officer.                               |
| Missoula<br>Nebraska:         | *Frank D. Pease, M. D  | Health officer.   |
| Beatrice                      | John R. Leiber, M. D   | City health officer.                                      |
| Fremont Grand Island          | R. T. Van Metre, M. D.   | City physician. Do.                                       |
| Hastings                      | J. W. Brown, M. D.   | Do.   |
| Lincoln                       | M. F. Arnhold, M. D.   | Superintendent of health.<br>  City physician.            |
| Norfolk<br>North Platte       | J. B. Redfield, M. D.  | Do.   |
| Omaha                         | John R. Leiber, M. D. R. T. Van Metre, M. D. J. G. Woodin, M. D. J. W. Brown, M. D.  *M. F. Arnhold, M. D. Victor L. Siman, M. D. J. B. Redfield, M. D. F. H. Kinyoun, M. D.         | Health commissioner.                                      |
| Nevada:<br>Reno               | John J. Sullivan, M. D   | Secretary, city board of health.                          |
| New Hampshire:                |  | ***   |
| BerlinClaremont               | *Ernest O. Pederson  | City health officer and milk inspector<br>Health officer. |
| Concord                       | William P. Prescott  | Sanitary officer.   |
| Dover                         | *George Brennan.<br>*Evan Carpenter White  | Health officer.<br>Health officer and milk inspector.     |
| Keene Laconia Laconia         | Kerii (łege M I)   | Secretary, board of bealth.                               |
| Manchester                    | *Howard Alvertus Streeter, M. D.<br>Oswald S. Maynard, M. D.<br>George A. Fredick, M. D.<br>Charles E. Goodwin   | Health officer.   |
| Nashua<br>Portsmouth          | George A. Fredick, M. D.   | Chairman, board of health.<br>Health officer.             |
| Rochester                     | Charles E. Goodwin   | Do.   |
| New Jersey: Asbury Park       | *B. H. Obert   | Health officer and registrar of vital st                  |
|                               |  | tistics.  |
| Atlantic City<br>Bayonne      | Samuel L. Salasin, M. D  | Health officer.   |
| Belleville                    | *Eugene T. Berry   | Do.   |
| Bloomfield                    | *Joseph C. Saile, Ph. G., D. V. S., D. O.  | Do.<br>Do.  |
| BridgetonBurlington           | *J. Margaret Warner  | Secretary, board of health.                               |
| Camden                        | *J. Margaret Warner* *Arthur L. Stone, M. D  | Director of public health.                                |
| Carteret                      |  |   |
| Clifton                       | Lester Foye Meloney, M. D<br>Harold K. Eynon, M. D   | Health officer.   |
| Collingswood<br>Dover         |  | Medical Inspector.<br>Health officer.                     |
| East Orange                   | *F. J. Oshorne.  *F. J. Oshorne.  *Louis J. Richards, S. E.  *Hugh B. Martin, M. S. C. E.  Charles B. Bleasby, M. D.  J. Alonzo Beek, M. D.  *L. Van D. Chandler.  *Lohn T. McClure. | Health officer and registrar.                             |
| ElizabethEnglewood            | *Louis J. Richards, S. E.  | Health officer.   |
| Garfield                      | Charles B. Bleasby, M. D.  | Do.   |
| Garfield Gloucester City      | J Alonzo Beek, M. D  | Do.   |
| Hackensack<br>Harrison        | John T. McClure  | Do.<br>Do.  |
| Hawthorne                     | T. J. Emberton Holmes, M. D  | Sanitary inspector.                                       |
| HobokenIrvington              | Joseph F. X Stack, M. D  | Health commissioner. City health officer.                 |
| Jersey City                   | *William S. Bailey.<br>*Dennis J. Sullivan, M. D., P. H. D   | Health officer.   |
| Kearny                        | *Amos Field. Jr  | Do.<br>Do.  |
| LindenLodi                    | *Maidie E. Noe   | Do.   |
| Long Branch                   |  | Do.   |
| Millville                     | *Carl T. Pomerov. C. P. H  | Do.<br>Do.  |
| Morristown                    | *John F. Kilkenny  | Health officer and plumbing inspector                     |
| New Brunswick<br>Newark       | Richard Knowles, Ph. G  *Carl T. Pomeroy, C. P. H.  *John F. Kilkenny E. Irving Cronk, M. D.  *Charles V. Craster, M. D., P. H. D.  *Richard V. Fellers.                             | Health officer.<br>Do.                                    |
| Nutley                        | *Richard V. Fellers  | Health officer and registrar of vital sta                 |
|                               |  | tistics.<br>Do.   |
| OrangePassaic                 | W. M. Brien, M. D  | Health officer.   |
| Paterson                      | *Rrederick P. Lee, M. D.   | Do.   |

| City  | Name of health officer   | Official title   |
|---|--|--|
| New Jersey—Continued.                                       | ACL COMPLETE DAY   |  |
| Perth Amboy   | *Chas. S. Thompson, D. V. S  | Health officer and registrar of vital sta-<br>tistics.                   |
| Phillipsburg  | Wm. Dana Pursell, D. D. S., M. D   | Town physician and health officer.<br>Secretary and health officer.      |
| Plainfield<br>Pleasantville                                 | *Andrew J. Krog<br>Robert M. Grier, M. D   | Health officer.  |
| Rahway  | *Fred M. Williams  | Executive officer and registrar of vital statistics.                     |
| Red Bank  | Robert L. Ticehurst, D. V. M. Wm. F. Reynolds, D. V. M. J. F. Benjamin, M. D. Perry A. Proudfoot, M. D.  | Sanitary inspector.<br>Health officer.                                   |
| Ridgefield Park<br>Ridgewood                                | J. F. Benjamin, M. D.  | Do.  |
| RoselleRutherford   | Perry A. Proudfoot, M. D. *Marine Dunn.  | Do.<br>Do.   |
| South Orange  | A. C. Benedict, M. D.  | Do.  |
| South River   | A. A. Pansey, M. D.<br>Henry P. Dengler, M. D.   | Do.<br>Executive and health officer.                                     |
| Trenton   | *Alton S. Fell, M. D   | Director of public welfare and health officer.                           |
| Union City  | Grant P. Curtis, M. D.<br>*Robert S. Genduso, C. P. H.   | Health officer.  |
| Union City<br>West New York<br>West Orange                  | *Robert S. Genduso, C. P. H<br>K. W. Thum, M. D  | Chief inspector. Director of health.                                     |
| Westfield   | *Andrew Carney   | Executive officer.   |
| New Mexico: Albuquerque                                     | *Julian O. Long, M. D., C. P. H  | District health officer.   |
| Roswell   | *Julian O. Long, M. D., C. P. H<br>*O. E. Puckett, M. D<br>*F. W. Parker, Jr., M. D., C. P. H  | Do.<br>Do.   |
| Santa Fe<br>New York:                                       |  |  |
| AlbanyAmsterdam   | *Daniel V. O'Leary, M. D   | Commissioner of health. Health commissioner.                             |
| Anhurn  | John W. Copeland, M. D.  | Health officer.  |
| BataviaBeacon   | EMARY F. WILL M. D   | Do.<br>Do.   |
| Binghamton  | Charles B. Dugan, M. D. Chalmer J. Longstreet, M. D. Francis E. Fronczak, LL. D., M. D.,   | Do.<br>Health commissioner.  |
| Buffalo   | Dr. Sc., P. H.   | Health commissioner.   |
| Division of child hy-                                       | Dr. Sc., P. H.  *Edward Durney, M. D.  *Edward Durney, M. D.   | Deputy health officer. Director.   |
| giene.  |  | Z.iociot.  |
| Division of commu-<br>nicable diseases.                     |  |  |
| Division of labora-   |  |  |
| tories.<br>Division of vital sta-                           | *Wm. J. Winn   | Registrar of vital statistics.   |
| tistics.<br>Division of sanita-                             | *Frank E. Trumble  | Assistant chief inspector.   |
| tion and smoke  | Time 2. Timeson  |  |
| abatement.<br>Division of food and                          | *Willard B. Diebold  | Do.  |
| milk inspection.  | *Horace Lo Grasso, M. D  | Superintendent.  |
| J. N. Adam Memo-<br>rial Hospital (Per-<br>rysburg, N. Y.). | Horace Do Grasso, Mr. D  | Daportavoza - 11   |
| rysburg, N. Y.).<br>Cohoes                                  | Matthew J. Keough, M. D.   | Commissioner of health.  |
| Corning   | Matthew J. Keough, M. D. Henry E. Elwood, Jr., M. D. *Merle R. French, M. D. Edgar Bieber, M. D. Reeve B. Howland, M. D. J. M. Mallory, M. D. Arthur E. Goldfarb, M. D. William H. Runcie, M. D. L. A. Simpson, M. D. C. W. Grove, M. D. | Health officer. County commissioner of health.                           |
| Cortland<br>Dunkirk   | Edgar Bieber, M. D.  | Health officer.  |
| Elmira<br>Endicott<br>Floral Park                           | Reeve B. Howland, M. D.  | Do.<br>Do.   |
| Floral Park   | Arthur E. Goldfarb, M. D.  | Do.  |
| FreeportFulton  | William H. Runcie, M. D  | County deputy health commissioner.<br>Health officer.                    |
| Geneva  | J. A. Silingson, M. D. C. W. Grove, M. D. Joseph B. Conolly, M. D. Virgil D. Selleck, M. D. Alexander L. Johnson, M. D. William H. Runcie, M. D.   | Do.<br>Do.   |
| Glen CoveGlens Falls  | *Virgil D. Selleck, M. D   | Do.  |
| Gloversville  | Alexander L. Johnson, M. D   | Do.<br>Do.   |
| Herkimer<br>Hornell   | James W. Glaves, M. D  | 20.  |
| Hornell<br>Hudson   | George E. Taylor, M. D.  | Do.<br>Commissioner of health.   |
| Ithaca  | *Robert H. Broad, M. D.  *Robert H. Broad, M. D.  William M. Sill, M. D.  Walter J. Farrell, M. D.  Daniel Malcolm McMartin, M. D.   | Health officer and school physician.<br>Superintendent of public health. |
| Jamestown<br>Johnson City                                   | Walter J. Farrell, M. D.   | Village health officer.  |
| Johnstown   | Daniel Malcolm McMartin, M. D  |  |
| Kenmore   | F. S. Brickell, M. D   | Health officer.  |
| Kingston<br>Lackawanna                                      | F. S. Brickell, M. D<br>Lester E. Sanford, M. D<br>Anthony S. Culkowski, M. D  | Do.<br>Do.   |
| Little Falls  | A. B. Santry, M. D<br>Lyman H. Wheeler, M. D   | Do.<br>Health officer and city physician.                                |
| Lockport<br>Lynbrook  |  |  |
| Mamaroneck<br>Massena                                       | M. Nicoll, Jr., M. D<br>O. E. Elkins, M. D   | County health officer.<br>Health officer.                                |
| TAT 0020FIST  | *H. J. Shelley, M. D.  | Do.  |

| City   | Name of health officer   | Official title   |  |  |  |
|--|--|--|--|--|--|
| New York—Continued.                                    |  |  |  |  |  |
| Mount Vernon   | *Frank W. Shipman, M. D  | Commissioner of health.                                |  |  |  |
| New Rochelle   | *Bertrand F. Drake, M. D., P. H. D.  | City health officer.                                   |  |  |  |
| New York   | *John L. Kice, M. D<br>•William H Rost M D   | Commissioner of health.  Deputy commissioner of health |  |  |  |
|  | *Bertrand F. Drake, M. D., P. H. D.  *John L. Riee, M. D.  *William H. Best, M. D.  *George T. Palmer, P. H. D.  *Sol Pincus, C. E.                                      | Do.<br>Do.   |  |  |  |
| Bureau:<br>General adminis-                            | *Goodhue Livingston, Jr  | Secretary.   |  |  |  |
| tration.   |  | D-d  |  |  |  |
| Records  | *Thomas J. Duffield  | Registrar of records. Director.                        |  |  |  |
| Sanitation<br>Preventable dis-<br>eases.               | *John Oberwager, M. D.<br>*Samuel Frant, M. D.   | Epidemiologist.  |  |  |  |
| Nursing Public health edu- cation.                     | *Amelia H. Grant, B. N<br>*Charles F. Bolduan, M. D  | Director.<br>Do.                                       |  |  |  |
| Laboratories   | *Raiph S. Muckenfuss, M. D   | Do.  |  |  |  |
| Food and drugs   | *Abraham Lichterman  | Acting director.                                       |  |  |  |
| Tuberculosis   | *Herbert R. Edwards, M. D.   | Director. Do.  |  |  |  |
| Social hygiene<br>District health ad-<br>ministration. | *Abraham Lichterman  *Herbert R. Edwards, M. D  *Theodore L. Rosenthal, M. D  *Margaret W. Barnard, M. D., P.  H. D.   | Do.<br>Do.   |  |  |  |
| mmstration.  | *Arthur I. Blau, M. D.   | Assistant to the director.                             |  |  |  |
|  | *Arthur I. Blau, M. D.<br>Morris L. Ogan, M. D.<br>*John B. West, M. D., M. P. H.  | Administrative assistant.                              |  |  |  |
|  | *John B. West, M. D., M. P. H  | District health officer. Do.                           |  |  |  |
|  | *Sophie Rabinof, M. D  | Do.  |  |  |  |
|  | *Isadore Cohen, M. D.<br>*Frank A. Calderone, M. D., C. P. H.  | Do.  |  |  |  |
|  | I *Max Hernstein, M. D   | Do.  |  |  |  |
|  | *Jacob Landes, M. D., C. P. H<br>*Jerome Meyers, M. D  | Do.<br>Do.   |  |  |  |
|  | *Louis A. Friedman, M. D.  | Do.  |  |  |  |
|  | Joseph Dillenberg, M. D<br>Aaron Leifer, M. D., M. S. P. H   | Medical officer in charge.                             |  |  |  |
|  | Aaron Leifer, M. D., M. S. P. H  | Do.  |  |  |  |
|  | *Anna E. Ray Robinson, M. D.   | District health officer.  Medical officer in charge.   |  |  |  |
|  | *James F. Morrison, M. D.  | Do.  |  |  |  |
| :  | *Leopold M. Rohr, M. D   | District health officer.                               |  |  |  |
|  | *Larra M. Riegelman, M. D  *James F. Morrison, M. D  *Leopold M. Rohr, M. D  *Jacob Rosenbluth, M. D  *Elwood S. Morton, M. D  | Do.  |  |  |  |
|  | *Elwood S. Morton, M. D  | Medical officer in charge. District health officer.    |  |  |  |
|  | *Eugene O. Chimene, M. D.  *Harold H. Mitchell, M. D., C. P. H.  *William F. Wild, M. D.  *Robert W. Fowler, M. D.  Anthony J. Manzella, M. D.  Edward E. Gillick, M. D. | Do.  |  |  |  |
|  | *William F. Wild, M. D   | Do.  |  |  |  |
| _  | *Robert W. Fowler, M. D.   | Medical officer.                                       |  |  |  |
| Newburgh   | Anthony J. Manzella, M. D.   | Health officer.<br>Do.                                 |  |  |  |
| Niagara Falls<br>North Tonawanda                       | Henry C. Lann. M. D.   | Do.  |  |  |  |
| Ogdensburg   | Frederick E. Clark, M. D.  | Do.  |  |  |  |
| Olean  | Henry C. Lapp, M. D. Frederick E. Clark, M. D. J. A. Johnson, M. D.  | Health commissioner.                                   |  |  |  |
| Oneida   | Edmund L. Finley, M. D<br>Edwin Perry Hall, M. D   | Health officer.<br>Do.                                 |  |  |  |
| Oneonta<br>Ossining                                    |  | <b>D</b> 0.  |  |  |  |
| Oswego   | James E. Mansfield, M. D.  Douglas Barry, M. D.  Leo F. Schiff, M. D.  | Do.  |  |  |  |
| Oswego<br>Peekskill                                    | Douglas Barry, M. D  | Do.  |  |  |  |
| Plattsburg   | Leo F. Schiff, M. D.   | Do.<br>Do.   |  |  |  |
| Port Chester   | Wm. J. Sheehan, M. D   | City health officer.                                   |  |  |  |
| Port Jervis<br>Poughkeepsie                            | *William H. Conger, M. D.  | Health officer.  |  |  |  |
| Rensselaer   |  | 70-  |  |  |  |
| Rochester  | Arthur M. Johnson, M. D.   | Do.<br>Do.   |  |  |  |
| Rockville Centre<br>Rome                               | Bruce B. Preas, M. DLewis N. Eames, M. D   | Do.  |  |  |  |
| Saratoga Springs                                       | r. J. Ressegue, M. D.  | Do.  |  |  |  |
| Schenectady  | *Wm. C. Treder, M. D   | Commissioner of health.                                |  |  |  |
| Syracuse   | *H. Burton Doust, M. D<br>Russell H. Wilcox, M. D  | Do.<br>Health officer.                                 |  |  |  |
| Tonawanda<br>Troy                                      | Inmee H Flynn M D  | Commissioner of health.                                |  |  |  |
| Utica  | *Hugh H. Shaw, M. D.   | Health officer.  |  |  |  |
| Valley Stream  | John M. Quinn, M. D.   | Do.  |  |  |  |
| Watertown  | *Hugh H. Shaw, M. D. John M. Quinn, M. D. George B. Van Doren, M. D. C. A. Birmingham, M. D.   | Do.<br>Do.   |  |  |  |
| Watervliet   |  | County commissioner of health.                         |  |  |  |
| Yonkers  | *Eugene F. McGillian, M. D., M. P. H.  | Commissioner of health.                                |  |  |  |
| Asheville  | *John W. Williams, M. D., C. P. H.   | Health officer.  |  |  |  |
| Charlotte  | *G. L. Rea. M. D   | Commissioner of health.                                |  |  |  |
| Concord  | *Daniel Greenlee Caldwell, M. D  | County health officer.<br>Superintendent of health.    |  |  |  |
| Durham<br>Elizabeth City                               | *J. H. Epperson<br>Thomas Shelton McMullan, M. D   | Municipal health officer.                              |  |  |  |
|  | *Malcolm T. Foster, M. D., C. P. H.  | City and county health officer.                        |  |  |  |
| ravetteville   |  |  |  |  |  |
| Fayetteville   | *Samuel B. McPheeters, M. D.,  | Director of public health.                             |  |  |  |

| City                              | Name of health officer   | Official title                                      |  |  |  |  |  |
|-----------------------------------|--|---|--|--|--|--|--|
| Forth Carolina—Contd.             |  |   |  |  |  |  |  |
| Companishoro                      | *C. Curtis Hudson, M. D.   | Health officer. Director of health.                 |  |  |  |  |  |
| High Point                        | *R. A. Herring, M. D.<br>*Z. V. Moseley, M. D.   | County health officer.                              |  |  |  |  |  |
| Kinston<br>New Bern               | *John Sherburne Anderson, M. D.,<br>C. P. H.   | Do.   |  |  |  |  |  |
| RaleighRocky Mount                | J. Allen Whitaker, M. D  | Superintendent, city health depart ment.            |  |  |  |  |  |
| Colichney                         | *C. W. Armstrong, M. D.  | Health officer.<br>County health officer.           |  |  |  |  |  |
| ShelbyStatesville                 | Does & McFlwee M D   | County physician.                                   |  |  |  |  |  |
| Thomasville                       | *G. C. Gambrell, M. D.   | County health officer.                              |  |  |  |  |  |
| Wilmington                        | Heyward Thompson, M. D   | Do.<br>Health officer.                              |  |  |  |  |  |
| Wilson                            | *W. H. Anderson, M. D. *R. L. Carlton, M. D.   | City health officer.                                |  |  |  |  |  |
| North Dakota:                     | Charles Albert Arneson M. D.   | Do.   |  |  |  |  |  |
| Bismarck                          | Charles Albert Arneson, M. D   | Do.   |  |  |  |  |  |
| FargoGrand Forks                  | E. C. Haagensen, M. D.   | Do.   |  |  |  |  |  |
| Minot                             | *H. J. Skarshaug, M. D., C. P. H<br>E. C. Haagensen, M. D.   | Do.   |  |  |  |  |  |
| Thio:                             | 1  | Director of health.                                 |  |  |  |  |  |
| Akron                             | Melville D. Ailes, LL. B., M. D<br>G. O. Rowland, M. D   | Health commissioner.                                |  |  |  |  |  |
| Alliance                          | R. P. Bogniard, M. D   | Director of public welfare.                         |  |  |  |  |  |
| A shtabula                        | James H. Park, M. D  | Health officer.<br>Health commissioner.             |  |  |  |  |  |
| Barberton                         | H. A. Finefrock, M. D.   | Do.   |  |  |  |  |  |
| Bellaire                          |  | Do.   |  |  |  |  |  |
| Bucyrus<br>Cambridge              | W. G. Carlisle, M. DCarl M. Oshe   | City health commissioner and sanitar officer.       |  |  |  |  |  |
| Campbell                          | Edward J. Reilly, M. D.  | Health commissioner.                                |  |  |  |  |  |
| Canton                            | F. M. Sayre, M. D  | Do.   |  |  |  |  |  |
| Chillicothe                       |  | Do. Acting commissioner of health.                  |  |  |  |  |  |
| Cincinnati                        | *F. K. Harder, M. D.<br>*Harold J. Knapp, M. D.  | Commissioner.                                       |  |  |  |  |  |
| Cleveland<br>Division:            | *T. G. Duncan, M. D.   | Chief.  |  |  |  |  |  |
| Communicable diseases.            |  |   |  |  |  |  |  |
| Venereal diseases<br>Tuberculosis | E. J. Braun, M. D.   | Do.   |  |  |  |  |  |
| Child hygiene<br>School health    | E. J. Braun, M. D. E. P. Edwards, M. D. *R. J. Ochsner, M. D. *J. G. Smith, M. D.                                      | Do.<br>Do.  |  |  |  |  |  |
| service. Food and Drug            | *E. B. Buchanan  | Do.   |  |  |  |  |  |
| administration. Laboratories      | Emerson Magrail M D  | Consulting laboratory director.                     |  |  |  |  |  |
| Public health                     | *Wm. H. Hay, LL. B<br>*Cora M. Templeton, R. N   | Chief of laboratories. Director.                    |  |  |  |  |  |
| nurses.                           |  |   |  |  |  |  |  |
| Vital statistics                  | Sara B. Hartley  | Chief. Director of health.                          |  |  |  |  |  |
| Cleveland Heights                 | *N C Dysert Ph. C. M. D.   | Health commissioner.                                |  |  |  |  |  |
| Coshocton                         | 1 1) LOWER, M. D   | Do  |  |  |  |  |  |
| Cuyahoga Falls                    | *Roll Harrison Markwith, M. D  | Commissioner of health.                             |  |  |  |  |  |
| Dayton                            | H. H. WIIIIailis, M. D.  | Health commissioner. Director of health.            |  |  |  |  |  |
| East Cleveland                    | Tohn A Murphy M. D   | Health commissioner.                                |  |  |  |  |  |
| East LiverpoolElyria              | G. E. French, M. D.  *L. F. Hall, M. D., Cleveland  *Martha Laffey, R. N.  | City health commissioner.                           |  |  |  |  |  |
| Euclid 4                          | *L. F. Hall, M. D., Cleveland  | County health commissioner.<br>Health commissioner. |  |  |  |  |  |
| Findlay                           | Martha Laffey, R. N.   | Do.   |  |  |  |  |  |
| Fostoria.                         | *H. A. DeVore<br>E. L. Vermilya, M. D  | Do.   |  |  |  |  |  |
| Fremont Garfield Heights 4        |  |   |  |  |  |  |  |
| Hamilton                          | *C. J. Baldridge, B. L., M. D.   | Health commissioner. Do.                            |  |  |  |  |  |
| Ironton                           | Harry Sherwood Allen, M. D.  | Commissioner of health.                             |  |  |  |  |  |
| Lakewood                          | Wallace J. Benner, M. D<br>Clifford B. Snider, M. D<br>*Gail E. Miller, M. D<br>Valloyd Adair, M. D                    | Do  |  |  |  |  |  |
| Lancaster                         | *Gail E. Miller, M. D  | County health commissioner.                         |  |  |  |  |  |
| Lorain                            | Valloyd Adair, M. D.  Roy C. Rehder, M. D.  J. B. McClure, M. D.  M. M. Weinbaum, M. D.                                | Health commissioner. Do.                            |  |  |  |  |  |
| Lorain<br>Mansfield               | Roy C. Rehder, M. D.   | Do.<br>Do   |  |  |  |  |  |
| Marietta                          | J. B. McClure, M. D.   | Do.   |  |  |  |  |  |
| Marion<br>Martins Ferry           |  |   |  |  |  |  |  |
| Massillon                         | *D. L. Fisher.<br>*G. D. Lummis, M. D.   | .  Do.  |  |  |  |  |  |
| Middletown                        |  |   |  |  |  |  |  |
| New Philadelphia                  |  |   |  |  |  |  |  |
| Newark                            | William H. Knauss, M. D. William H. Knauss, M. D. W. A. Werner, M. D. R. E. Hatfield, M. D. Clara Carter Wilder, R. N. | Do.   |  |  |  |  |  |
| Niles<br>Norwood                  | R. E. Hatfield, M. D.  | Do.   |  |  |  |  |  |
| Painesville                       | *Clara Carter Wilder, R. N.  | County commissioner of health.                      |  |  |  |  |  |
| Parma 4                           | 1 TL. F. Hall. M. D  | ealth, 207 Engineers Bldg., Cleveland.              |  |  |  |  |  |

<sup>&</sup>lt;sup>4</sup>Under supervision of Cuyahoga County District Board of Health, 207 Engineers Bldg., Cleveland.

| City                          | Name of health officer   | Official title  |
|-------------------------------|--|---|
|                               |  |   |
| Ohio-Continued. Piqua         | F R Ruschner   | Health commissioner.  |
| Portsmouth                    | F. R. Buechner. Oral D. Tatje, M. D. R. T. Holzbach, M. D. *F. M. Houghtaling, M. D. Paul M. Spurney, M. D. *Oscar M. Craven, M. D. *Inlins A Pissoferrato | Do.   |
| Salem                         | R. T. Holzbach, M. D.  | Do.   |
| Sandusky<br>Shaker Heights    | Paul M. Spurney M. D.  | Do.<br>Director of health.                                  |
| Springfield                   | Oscar M. Craven, M. D.   | Director of public health.                                  |
| Steuben ville                 |  | - City mounta commissioner                                  |
| Struthers                     |  | Health commissioner.  |
| Toledo                        | Millard Charles Hanson, M. D., P.  | Director of health.   |
| Warren                        |  | Health commissioner.  |
| Wooster Xenia                 | Gordon E Savege M D  | Do.<br>County health officer.                               |
| Youngstown                    | W. W. Ryall, M. D.   | Commissioner of health.                                     |
| Zanesville                    | Edmund R. Brush, M. D  | . Do.   |
| Oklahoma:                     | *Glen W. McDonald, M. D  | Director, city-county health unit.                          |
| Ardmore                       | *Richard M. Parish, M. D.  | County superintendent of health.                            |
| Bartlesville                  | Elizabeth Chamberlin, M. D   | City superintendent of health.                              |
| Chickasha<br>Enid             |  | City health superintendent. City superintendent of health.  |
| Lawton                        | I  | 1 7 7   |
| McAlester                     | Ernest Thomas, M. D.   | County superintendent of health.                            |
| Oklahoma City<br>Okmulgee     | M D Carnell M D  | Director of health.  County superintendent of health.       |
| Ponca City                    | *Charles Campbell Gardner, M. D  | City health director.                                       |
| Sapulpa                       |  |   |
| Seminole<br>Shawnee           | Claude Starr Chambers, M. D  | City health officer. City physician.                        |
| Tulsa                         | J. Jeff Billington, M. D.  | Superintendent of health.                                   |
| Wewoka                        | *George Hunter, M. D   | County superintendent of health.                            |
| Oregon:                       | *N. S. Vernon, M. D  | City health officer.  |
| Eugene<br>Klamath Falls       | *E. L. Gardner, M. D   | City and county health officer.                             |
| Klamath Falls                 | Neil Black, M. D.  | County health officer.                                      |
| Medford<br>Portland           | L. D. Inskeep, M. D.  *Adolph Weinzirl, M. D., C. P. H   | City health officer.  |
| Salem                         | *Vernon A. Douglas, M. D., M. P. H.  | City-county health officer.                                 |
| Pennsylvania:                 | AT W Common  | Tracks Officer  |
| AliquippaAllentown            | J. Treichler Butz, D. D. S., M. D.   | Health Officer.<br>Do.                                      |
| Altoona                       | Raymond A. Herbert   | Superintendent of health.                                   |
| Ambridge                      | *Louis Herrmann  | Health officer.   |
| Arnold Beaver Falls           | Frank E. Morrison  | Secretary, board of health.<br>Health officer.              |
| Bellevue                      | *Mrs. G. P. Brown  | Do.   |
| Berwick<br>Beilt lehem        | *Charles Ross.   | Do.   |
| Braddock                      | *Samuel J. Escher  | Do.   |
| Bradford                      | *R. G. Vogel<br>John M. Wright   | Do.   |
| Bristol                       | John M. Wright<br>*Edgar L. Geibel   | Do.<br>Do.  |
| Butler<br>Canonsburg          | Eugar D. Gerber  | 170.  |
| Carbondale                    | *Arthur J. Dearie  | Do.   |
| Carlisle                      | A. B. Lafferty   | Borough clerk.  |
| Chambersburg                  | *Frank J. Croft  | City health officer.  |
| Charleroi                     | *J. M. Hill *Timothy McCarey   | Health officer.   |
| Chester                       | *S Arthur Correlatte   | Do.<br>Do.  |
| Coatesville                   | *S. Arthur Carrabotta<br>Charles V. Peace, V. M. D   | Do.   |
| Columbia.                     |  |   |
| Connellsville<br>Conshohocken | *Charles H. Balsley  | Do.<br>Health officer and secretary.                        |
| Coraopolis                    | Thomas S. White D. K. Clever, M. D.  | Health officer.   |
| Dickson City                  | Joseph M. Malinoski  | Secretary, board of hea.th.                                 |
| Donora                        | *Herman Lang   | Health officer.<br>Do.                                      |
| Du Bois                       | Fred Frank J. I. Brockbank, M. D.  | Do.   |
| Dunmore                       | I  | D-  |
| Duquesne                      | Francis P. Long R. S. Raub, M. D   | Do.<br>Do.  |
| EastonEllwood City            | *Lewis Young.  | Do.   |
| Erie                          | *Lewis Young. *James R. Smith, M. D.   | Do.   |
| Farrell<br>Franklin           | Dell F. Davis  | Do.   |
| Greensburg.                   | *Joseph R. Cherry<br>Nevin H. Seitz, M. D.<br>John M. J. Raunick, M. D.<br>*John J. Pavlik, D. D. S.   | Health officer and secretary.                               |
| Hanover.                      | Nevin H. Seitz, M. D.  | Secretary, board of health.<br>Health officer and director. |
| Harrisburg<br>Hazleton        | John J. Pavlik, D. D. S  | Health officer.   |
|                               |  |   |
| Jeannette                     |  |   |

| City  | Name of health officer   | Official title                                      |
|---|--|---|
| Pennsylvania—Contd.   |  |   |
| Johnstown   | L. L. Porch, M. D.  J. F. Seward                                 | City physician. Health officer.                     |
| Kingston Lancaster  | Benjamin F. Charles  | Do.   |
| Latrobe   | I W. T. Osborne  | Do  |
| Lebanon<br>Lewistown  |  | Do.<br>Do.  |
| McKeesport  | Daniel F. Marsh  | Do.   |
| McKees Rocks  | Silvio H. Baldassare   | Borough health officer.                             |
| Mahanoy City<br>Meadville   | Edward S. Gately   | Do.<br>Do.  |
| Monessen.   | *F. C. Duvall. M. D  | Do.   |
| Mount Carmel  |  | Do.<br>Do.  |
| Munhall<br>Nanticoke  | *Judson Abbott   | Health inspector.                                   |
| New Castle  | William L. Steen, M. D.  | Health officer.                                     |
| New Kensington<br>Norristown  | I *I C Cassel ·  | 1 130.  |
| North Braddock  | *Michael J. Pastor*  *William J. Lewis                           | Do  |
| Oil City  | *William J. Lewis  | Do.   |
| Old ForgeOlyphant   | Andrew Taras   | Do.   |
| Philadelphia:   |  |   |
| Department of public health.  | *Wm. C. Hunsicker, M. D.   | Director, department of public health.              |
|   | *Alfred F. Allman, M. D.   | Assistant director, department of public health.    |
| Bureau of health<br>Bureau of hospi-<br>tals:   | *William J. Wolf   | Secretary.  |
| Philadelphia<br>General Hos-<br>pital, 34th and<br>Pine Streets.                                | *William G. Turnbull, M. D                                       | Superintendent.                                     |
| Philadelphia<br>Hospital for  | *Pascal F. Lucchesi, M. D  | Do.   |
| Contagious Diseases, 2d and Luzerne Streets. Philadelphia Hospital for Mental Dis-              | •Wilbur P. Rickert, M. D   | Do.   |
| eases, By-<br>berry.  |  |   |
| Phoenixville<br>Pittsburgh  | *Russell E. Deery<br>*I. Hope Alexander, M. D                    | Health officer. Director.                           |
| Bureau of infectious<br>diseases (includ-<br>ing municipal and<br>tuberculosis hos-<br>pitals). | P. E. Marks, M. D  | Superintendent.                                     |
| Bureau of sanitation_<br>Bureau of child wel-   | *Leonard M. Sandston, C. E<br>*H. J. Benz, M. D                  | Do.<br>Do.  |
| fare.<br>Bureau of food in-   | *Howard Patton   | Do.   |
| spection. Bureau of smoke regulation.   | H. B. Meller, C. E   | Do.   |
| PittstonPlymouth  | *H. G. Templeton, M. D.  | Secretary, board of health.                         |
| Pottstown   | A. John Andre  | Health officer.                                     |
| Pottsville  | A. C. Huntzinger   | Do.<br>Do.  |
| Reading Scranton  | *Ira J. Hain, M. D.<br>Earl H. Rebhorn, M. D.                    | Director of public health.                          |
| Shamokin  | *Frederick Zeiser  | Health officer.                                     |
| Sharon<br>Shenandoah  | *Joseph B. Hildebrand<br>*Charles A. Bell                        | Sanitary officer.<br>Health officer.                |
| Steelton  | *E. G. Butler  | Do.   |
| Sunbury   | *Carl P. Inkrote<br>*Samuel L. Glasgow                           | Health officer.<br>Do.                              |
| Swissvale<br>Tamaqua  | оащий и. Спажи   | <i>≥</i> 0.   |
| Taylor  | E. E. Edwards, M. D  | De.   |
| Turtle Creek<br>Uniontown   | *J. R. West  | Do.<br>Do.  |
| Vandergrift   |  |   |
| Warren<br>Washington  | *Ralph N. Brown<br>*C. E. Houston                                | Do.<br>Do.  |
| Waynesboro  | Verne L. Snowberger  | Do.   |
| West Chester  | *Warren T. Garrett   | Health officer and sanitary inspector.              |
| Wilkes-Barre<br>Wilkinsburg   | *Edward J. Pugh<br>*J. M. Snyder                                 | Acting principal health officer.<br>Health officer. |
| Williamsport<br>York  | *J. M. Snyder<br>*William J. Mollenkopf<br>John D. Yeagley, M. D | Do. Director of public health.                      |
|   |  | •   |

| City                             | Name of health officer  | Official title   |  |  |  |  |
|----------------------------------|---|--|--|--|--|--|
| Rhode Island:                    | Matthew G. Mastara  | Wasteh affices   |  |  |  |  |
| Bristol                          | I Omer H Messa M D  | I Do   |  |  |  |  |
| Cranston                         | Daniel S. Latham, M. D  | ! Superintendent of bealth.                                    |  |  |  |  |
| Cumberland                       | Stephen A. Kenney, M. D   | . Health officer.  |  |  |  |  |
| East Providence<br>Newport       | Edward V. Murphy, M. D.   | Do.<br>Commissioner of health.                                 |  |  |  |  |
| North Providence                 | *Joseph Anthony St. Angelo, Ph. B.,   | Chief health officer.  |  |  |  |  |
| Pawtucket                        |   | Superintendent of health.                                      |  |  |  |  |
| Providence<br>Warwick            | *Raymond Luft. M. D   | Do.<br>Do.   |  |  |  |  |
| Westerly                         | Samuel C. Wedster, Ph. G., M. D   | Do.  |  |  |  |  |
| Woonsocket<br>South Carolina:    | James P. O'Brien, M. D., C. P. H  | District health officer.                                       |  |  |  |  |
| Anderson                         | *E. R. Van De Grift, D. V. M  | Health officer.  |  |  |  |  |
| Charleston                       | *Leon Banov, M. D   | Do.  |  |  |  |  |
| Columbia                         | Paul Eugene Payne, M. D.  | City health officer.   |  |  |  |  |
| FlorenceGreenville               | TOWNED D. ELEMIN, M. D., F. E. D  | Health commissioner. Commissioner of health.                   |  |  |  |  |
| Greenwood.                       | I *Ioseph E. Brodie, M. D   | City and county health officer.                                |  |  |  |  |
| Rock Hill.                       | S. S. Frew  | City health officer.   |  |  |  |  |
| Spartanburg<br>Sumter            | *S. S. Frew<br>*William O. Wrightson, M. D<br>*G. R. Kitchen, D. V. M   | Director of health. Health officer.                            |  |  |  |  |
| South Dakota:                    | 0. 10. M. M. D. V. M  | Liouren outcot.  |  |  |  |  |
| Aberdeen                         | J. F. Adams, M. D.  | City health officer.   |  |  |  |  |
| Huron                            | T. J. Wood, M. D.   | Health inspector.  |  |  |  |  |
| Mitchell Rapid City              | *H. D. Lien, M. D   | City health officer. Director, county health unit.             |  |  |  |  |
| Sioux Falls                      | Emil G. Ericksen, M. D  | Health officer.  |  |  |  |  |
| Watertown                        | J. F. Adams, M. D. T. J. Wood, M. D. Earl Young, M. D. "H. D. Lien, M. D. Emil G. Ericksen, M. D. H. T. Kenney, M. D.   | City health officer.   |  |  |  |  |
| Pennessee: Bristol               | *F L Moore M D C P H  | County health officer.   |  |  |  |  |
| Chattanooga                      | J. W. L. Cooper, M. D.<br>Herman Hawkins, M. D.   | Director, department of health.                                |  |  |  |  |
| Jackson                          | Herman Hawkins, M. D.   | City health officer.   |  |  |  |  |
| Johnson City<br>Kingsport        | *E. E. Carrier, M. D.   | Director, city health department. County health officer.       |  |  |  |  |
| Knoxville                        | *William H. Enneis, M. D., M. P. H.   | Health officer.  |  |  |  |  |
| Memphis                          | F. L. Moore, M. D., C. P. H.  William H. Enneis, M. D., M. P. H.  Lloyd M. Graves, M. D.  John Overton, M. D.   | Superintendent of health.                                      |  |  |  |  |
| Nashville                        | John Overton, M. D  | City health department.  |  |  |  |  |
| Abilene                          | Scott W. Hollis, M. D.  *B. M. Primer, M. D., M. P. H.  *George M. Decherd, M. D.   | County and city health officer.                                |  |  |  |  |
| Amarillo                         | *B. M. Primer, M. D., M. P. H   | Director of health unit.                                       |  |  |  |  |
| AustinBeaumont                   | W W Dunn M D  | Assistant city health officer. City health officer.            |  |  |  |  |
| Big Spring                       | W. W. Dunn, M. D. M. H. Bennett, M. D. Thurman A. Kinder, Jr., M. D. J. M. Horn, M. D. Joseph M. Stallcup, M. D.  | Do.  |  |  |  |  |
| Big Spring<br>Brownsville        | Thurman A. Kinder, Jr., M. D  | Do.  |  |  |  |  |
| BrownwoodCleburne                | J. M. Horn, M. D  | Do.<br>Do.   |  |  |  |  |
| Corpus Christi                   |   | 20.  |  |  |  |  |
| Corsicana                        | Wm. T. Shell, Jr., M. D.  *James William Bass, M. D.  | Do.  |  |  |  |  |
| Dallas<br>Del Rio                | D A Vork M D  | Director of public health.  City health officer.               |  |  |  |  |
| Denison                          | D. A. York, M. D. W. A. Lee, M. D. J. W. Tappan, M. D. Arthur Heath Flickwir, M. D.   | Do.  |  |  |  |  |
| El Paso                          | J. W. Tappan, M. D.   | Director, city-county health unit.                             |  |  |  |  |
| Fort Worth                       | Walter Klahers M. D.  | Director of public health and welfare.<br>City health officer. |  |  |  |  |
| Greenville                       | Valter Heath Flockwir, M. D.  John Saunders Cooper, M. D.  Henry C. Wilson, M. D.  John W. Brown, M. D., C. P. H.  A. T. Cook, M. D.  J. W. Rollo, M. D.  W. H. Bennett, M. D.  John T. Humphries, M. D.  Lohn A. Stephens, M. D. | Do.  |  |  |  |  |
| Harlingen                        | Henry C. Wilson, M. D.  | Do.  |  |  |  |  |
| Houston                          | John W. Brown, M. D., C. P. H   | Director of public health.<br>City health officer.             |  |  |  |  |
| Laredo Lubbock Lubbock           | J. W. Rollo, M. D   | Do.  |  |  |  |  |
| Marshall                         | W. H. Bennett, M. D.  | Do.  |  |  |  |  |
| Palestine                        | John T. Humphries, M. D.  | City physician.<br>City health officer.                        |  |  |  |  |
| Pampa<br>Paris                   | John A. Stephens, M. D.   | Do.  |  |  |  |  |
| Port Arthur                      | Frank J. Beyt, M. D.  | Director of public health and welfare.                         |  |  |  |  |
| San Angelo                       | B. T. Brown, M. D   | City health officer.   |  |  |  |  |
| San Antonio                      | *W. A. King, M. D   | Do.  |  |  |  |  |
| Sherman                          | C. D. Strother, M. D.   | Do.  |  |  |  |  |
| Sweetwater                       | *George Albert Gray, M. D.  | Director, county health unit.                                  |  |  |  |  |
| Temple                           | TB. A. Stafford, Jr., M. D.   | Do.  |  |  |  |  |
| Tyler                            | Albert Woldert, Ph. G., M. D.   | City health officer. Do.                                       |  |  |  |  |
| Waco<br>Wichita Falls            | *Neil L. Simpson, M. D.   | County health officer.   |  |  |  |  |
| Wichita Falls                    | C. D. Strother, M. D  George Albert Gray, M. D  B. A. Stafford, Jr., M. D  Charles A. Smith, M. D  Albert Woldert, Ph. G., M. D  Neil L. Simpson, M. D  John H. Fletcher, M. D  | City health officer.   |  |  |  |  |
| tah:                             |   | City physician.  |  |  |  |  |
| Ogden                            |   |  |  |  |  |  |
| Ogden<br>Provo<br>Salt Lake City | Wendell Noall, M. D   | Do. Health commissioner.                                       |  |  |  |  |

| City                                     | Name of health officer   | Official title  |
|--|--|---|
|  |  |   |
| Vermont:<br>Barre                        | J. J. Tomesi, M. D.  | City health officer.  |
| Bennington                               | J. J. Tomasi, M. D.<br>John David Lane, M. D.  | Health officer.   |
| Burlington                               | Erald F. Foster, M. D. Albert H. Bellerose, M. D.  | City health officer.  |
| Rutland                                  | Albert H. Bellerose, M. D  | Health officer.   |
| Virginia:<br>Alexandria                  | W Lawis Scholar M D  | Health officer and clinician.                               |
| Charlottesville                          | W. Lewis Schafer, M. D.  *Robert D. Hollowell, M. D., C. P. H.   | County health officer.                                      |
| Danville                                 | *R. W. Garnett, M. D.  | Health officer and director of public                       |
|  |  | welfare.  |
| Hopewell                                 | John H. Bonner, M. D.  | Health officer.   |
| Lynchburg<br>Newport News                | *Mosby G. Perrow  *G. Colbert Tyler, M. D  *John Cary Sleet, M. D  Mason Romaine, M. D  *L. H. Denny, M. D  *W. Brownley Foster, M. D                                | Director of public welfare.  Health officer.                |
| Norfolk                                  | *Ichn Cary Sleet M D   | Health commissioner.  |
| Petersburg                               | Mason Romaine, M. D.   | Health officer.   |
| Portsmouth                               | *L. H. Denny, M. D   | Director of public welfare.                                 |
| Richmond                                 | *W. Brownley Foster, M. D  | Director of public welfare and health                       |
| D  |  | i omcor.  |
| Roanoke<br>Staunton                      | C. W. Rodgers, M. D.   | Health officer. Do.   |
| Suffolk                                  | *Charles C. Hedges, M. D.  | Do.   |
| Winchester                               | L. M. Allen, M. D.   | Do.   |
| Washington:                              | •  |   |
| Aberdeen                                 | B. O. Swinehart, M. D  | City health officer.  |
| Bellingham                               | Dowid W Dolle W D  | Do.   |
| Bremerton                                | David H. Polk, M. D<br>J. W. Darrough, M. D<br>H. C. Watkins, M. D   | Do.   |
| Hoguiam                                  | H. C. Watkins, M. D.   | Do.   |
| Longview                                 |  |   |
| Olympia                                  | *Sanford P. Lehman, M. D<br>*Leland F. Powers, M. D<br>*Frank M. Carroll, M. D<br>*Ralph Hendricks, M. D   | Do  |
| Port Angeles                             | *Leland F. Powers, M. D.   | County-city health officer.                                 |
| Seattle Spokane                          | Polnh Handricks M. D.  | Commissioner of health.  Commissioner of public affairs and |
| Spokane                                  |  | health officer.   |
| Tacoma                                   | S. M. Creswell, M. D.  J. A. Kahl, M. D.  A. E. Eyres, M. D.   | Director of health.   |
| Vancouver                                | *J. A. Kahl, M. D  | County-city health officer.<br>Director of health.          |
| Walla Walla                              | *A. E. Eyres, M. D.  | Director of health.   |
| Wenatchee                                | *Cecil Rhodes Fargher, M. D<br>*Lloyd Moffitt, M. D  | County-city health officer.                                 |
| Yakima<br>West Virginia:                 | 1  | 1   |
| Bluefield                                | *David B. Lepper, M. D., C. P. H<br>*Herbert B. Wise, M. D<br>*L. C. Goff, M. D  | City health officer.  |
| Charleston                               | *Herbert B. Wise, M. D   | City health commissioner.                                   |
| Clarksburg                               | *L. C. Goff, M. D.   | City health officer.  |
| Fairmont                                 | *Joseph Wilfrid Davis, M. D., C. P. H.   | Director, county health department.  Medical director.      |
| Huntington                               | *W. W. Strange, M. D.  | County health officer.                                      |
| Morgantown                               | *Earl L. White, M. D.  | City health officer.  |
| Moundsville                              | *Claude A. Thomas, M. D.  *Earl L. White, M. D.  *W. G. C. Hill, Ph. G., M. D.  *Arthur D. Knott, M. D., P. H. D.  *Reece M. Pedicord, M. D.                         | County health director.                                     |
| Parkersburg                              | *Arthur D. Knott, M. D., P. H. D   | City-county health officer.                                 |
| Wheeling                                 | *Reece M. Pedicord, M. D   | City-county health commissioner.                            |
| Wisconsin:<br>Appleton                   | John C. Troyal M. D.   | Health commissioner.  |
| Ashland                                  | C. O. Hertzman, M. D.  | Do.   |
| Beloit                                   | Richard A. Thayer, M. D  | Health officer.   |
| Cudahy<br>Eau Claire                     | John C. Troxel, M. D   | Health commissioner.  |
| Eau Claire                               | L. H. Flynn, M. D  | Health officer.   |
| Fond du LacGreen Bay                     |  | Health commissioner. Do.                                    |
| Janesville                               | Henry S. Atkinson, M. D. *Fred B. Welch, M. D.   | City health officer.  |
| Kenosha                                  |  | Dimenton of health  |
| La Crosse                                | *A. M. Murphy.  *F. F. Bowman, M. D.  George M. Hoffman, M. D.  J. William Boren, M. D.  *John P. Koehler, M. D.  E. V. Brumbaugh, M. D.  *Benjamin Lieberman, M. D. | Acting commissioner and health officer.                     |
| Madison                                  | *F. F. Bowman, M. D  | Health officer.<br>Health commissioner.                     |
| Manitowoc<br>Marinette                   | T William Poren M D  | Do.   |
| Milwaukee                                | *John P. Koehler, M. D   | Commissioner of health.                                     |
| 1111 W GUILOU                            | E. V. Brumbaugh, M. D.   | Deputy commissioner of health.                              |
| School hygiene divi-                     | *Benjamin Lieberman, M. D  | Director.   |
| sion.                                    |  | _   |
| Education division Division of venereal  | *George A. Dundon<br>*William J. McKillip, M. D  | Do.<br>Do.  |
| diseases.                                | w mam J. McKmp, M. D   | 170.  |
| Vital statistics                         | *George E. Adams   | Deputy register.  |
| Division of tubercu-                     | *George E. Adams<br>*George R. Ernst, M. D   | Director.   |
| losis.                                   |  | De  |
| Contagious disease                       | *Edward R. Krumbiegel, M. D  | Do.   |
| division.                                | *Stanley L. Pilgrim, M. D. C   | Do.   |
| Division of food and sanitary inspection | окашеу D. Fugrim, M. D. O  | <b>2</b> 0.   |
| Bureau of laborator-                     | *R. W. Cunliffe  | Do.   |
| ies.                                     |  |   |
| Division of child                        | *E. V. Brumbaugh, M. D   | Do.   |
| welfare.                                 |  |   |
| Division of nurses                       | *Alma H. Brunk, R. N   | Do.   |

| City                        | Name of health officer   | Official title   |    |  |  |  |
|-----------------------------|--|--|----|--|--|--|
| Wisconsin—Continued. Racine | *I. F. Thompson, M. D., M. P. H.  *Gustav J. Hildebrand, M. D. Jerome M. Jekel, M. D. Robert D. Moray, M. D.  Ferdinand R. Krembs, M. D.  *Charles H. Mason, M. D.  Alfred P. Zlatnik, M. D.  E. W. Bowen, M. D.  Frank M. Scheele, M. D.  *L. F. Bugbee.  Roy T. Hansen, M. D.  *Frank H. Russell, M. D.  Joseph C. Kamp, M. D.  W. R. Day, M. D. | Health officer. Health commissioner. Commissioner of health. | of |  |  |  |

# DEATHS DURING WEEK ENDED SEPTEMBER 17, 1938

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

|   | Week ended<br>Sept. 17, 1938  | Correspond-<br>ing week, 1937  |
|---|---|--|
| Data from 88 large cities of the United States:  Total deaths | 7, 480<br>1 6, 927<br>301, 861<br>529<br>1 481<br>19, 592<br>68, 288, 474<br>11, 124<br>8, 5<br>10, 2 | 1 6, 816<br>325, 372<br>1 483<br>21, 019<br>69, 840, 308<br>10, 349<br>7. 7<br>10. 0 |

<sup>&</sup>lt;sup>1</sup>Data for 86 cities.

# 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.

In these and the following tables, a zero (0) indicates a positive report and has the same significance as any other figure, while leaders (....) represent no report, with the implication that cases or deaths may have occurred but were not reported to the State health officer.

Cases of certain diseases reported by telegraph by State health officers for the week ended Sept. 24, 1938, rates per 100,000 population (annual basis), and comparison with corresponding week of 1937 and 5-year median

|  |                                       | Dip                            | htheria                          | <b>Y</b>                    |                               | Inf                            | luenza                         |                            |                               | Me                             | asles                             |                                  |
|--|---------------------------------------|--------------------------------|----------------------------------|-----------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|-------------------------------|--------------------------------|-----------------------------------|----------------------------------|
| Division and State                       | Sept.<br>24,<br>1938,<br>rate         | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases   | 1933-<br>37<br>me-<br>dian  | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases | 1933-<br>37<br>me-<br>dian | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases    | 1933-<br>37<br>me-<br>dian       |
| NEW ENG.                                 |                                       |                                |                                  | ·                           |                               |                                |                                |                            |                               |                                |                                   |                                  |
| Maine                                    | 18<br>0<br>27<br>5<br>0               | 2<br>4<br>0                    | 1<br>0<br>1<br>2<br>0<br>5       | 1<br>0<br>0<br>5<br>0<br>2  | 21                            | 7                              | 5                              | 1                          | 37<br>14<br>32<br>21          | i                              | 9<br>1<br>3<br>11                 | 9<br>3<br>11<br>1<br>4           |
| MID. ATL.                                |                                       |                                |                                  |                             |                               |                                |                                |                            |                               |                                |                                   |                                  |
| New York<br>New Jersey<br>Pennsylvania   | 4<br>8<br>6                           | 11<br>7<br>11                  | 13<br>13<br><b>2</b> 9           | 26<br>8<br>26               | 1 <u>4</u><br>5               | 1 5<br>4                       | 1 11<br>5                      | 1 g<br>5                   | 23<br>10<br>9                 | 57<br>8<br>17                  | 43<br>20<br>142                   | 52<br>16<br>30                   |
| e. no. cen.                              |                                       |                                |                                  |                             |                               |                                |                                |                            |                               |                                |                                   |                                  |
| Ohio Indiana Illinois Michigan Wisconsin | 9<br>30<br>17<br>10<br>4              | 11<br>20<br>25<br>9<br>2       | 28<br>13<br>48<br>22<br>5        | 32<br>33<br>40<br>12<br>3   | 23<br>8<br>50                 | 15<br>12<br>28                 | 2<br>12<br>12<br>3<br>16       | 4<br>14<br>7<br>1<br>12    | 10<br>30<br>105               | 15<br>28<br>59                 | 54<br>6<br>43<br>18<br>27         | 14<br>6<br>21<br>10<br>27        |
| w. no. cen.                              |                                       |                                |                                  |                             |                               |                                |                                |                            |                               |                                |                                   |                                  |
| Minnesota                                | 18<br>4<br>18<br>22<br>60<br>19<br>17 | 9<br>2<br>14<br>3<br>8<br>5    | 3<br>3<br>14<br>1<br>1<br>3<br>3 | 6<br>44<br>5<br>1<br>3<br>7 | 20<br>15                      | 15<br>2<br><br>1               | 1<br>26<br>5                   | 38<br>1                    | 29<br>10<br>8<br>273<br>8<br> | 15<br>5<br>6<br>37<br>1        | 3<br>1<br>18<br>1<br>1<br>3<br>14 | 10<br>1<br>9<br>2<br>1<br>1<br>5 |
| SO. ATL.                                 |                                       | İ                              | 1                                |                             |                               |                                |                                |                            | I                             |                                |                                   |                                  |
| Delaware Maryland 3 3 Dist. of Col       | 0<br>22<br>33<br>96                   | 0<br>7<br>4<br>50              | 0<br>17<br>4<br>41               | 0<br>13<br>10<br>35         | 22<br>17<br>164               | 7<br>2<br>85                   | 6                              | 5                          | 31<br>8<br>12                 | 10<br>1<br>6                   | 4<br>1<br>5                       | 2<br>5<br>1<br>6                 |

See footnotes at end of table.

1802

October 7, 1933

Cases of certain diseases reported by telegraph by State health officers for the week ended Sept. 24, 1938, rates per 100,000 population (annual basis), and comparison with corresponding week of 1937 and 5-year median—Continued

|   |                                      | Dip                            | htheris                        |                                 |                               | Inf                            | luenza                         |                            |   | Me                             | easles                          |                               |
|---|--------------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|---|--------------------------------|---------------------------------|-------------------------------|
| Division and State  | Sept. 24, 1938, rate                 | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases | 1933-<br>37<br>me-<br>dian      | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases | Sept. 25, 1937, cases          | 1933-<br>37<br>me-<br>dian | Sept.<br>24,<br>1938,<br>rate           | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases  | 1933-<br>37<br>me-<br>dian    |
| so. ATL.—Continued. West Virginia. North Carolina 4. South Carolina 4. Georgia 4. | 45<br>184<br>106<br>117              | 123<br>38<br>69                | 110<br>21<br>30                | 21<br>34                        | 590<br>34                     | 13<br>212<br>20                | 1<br>135                       | 132                        | 39<br>8<br>20                           | 26<br>3<br>12                  | 1 2                             | 17                            |
| E. SO. CEN.  Kentucky Tennessee 4 Alabama 4                                       | 48<br>81<br>92                       | 27                             | 25<br>37                       | 36<br>56<br>54                  |                               | 20<br>38<br>30                 | 10<br>17<br>9                  | 15                         | 5<br>18<br>61                           | 3<br>10                        | 33<br>19                        |                               |
| Mississippi 2   | 64                                   | 25                             | 30                             | 25<br>11                        | 33                            | 13                             | 8                              | 4                          | 3                                       | 1                              | 2                               | 2                             |
| Louisiana 4OklahomaTexas 4  | 39<br>31<br>28                       | 1 15                           | 5                              | 16<br>7<br><b>46</b>            | 5<br>51<br>46                 | 25<br>25<br>54                 | 3<br>17<br>99                  | 13                         | 27<br>6<br>3                            | 3                              | 1<br>1<br>42                    | 6<br>1<br>7                   |
| Montana Idaho Wyoming Colorado New Mexico Arizona Utah 3                          | 10<br>0<br>44<br>63<br>74<br>76<br>0 | 0<br>2<br>13<br>6<br>6         | 0<br>7<br>2<br>7               | 2<br>2<br>0<br>5<br>2<br>2<br>0 | 354<br>151                    | 28<br>15                       | 1<br>10<br>2                   |                            | 464<br>42<br>44<br>29<br>49<br>51<br>40 | 4<br>2<br>6                    | 3<br>2<br>2<br>7<br>6<br>1<br>8 | 2<br>7<br>6<br>1<br>2         |
| PACIFIC Washington Oregon California Total  | 6<br>10<br>24<br>31                  | 2<br>2<br>28<br>759            | 1<br>1<br>-33<br>760           | 1<br>1<br>31<br>760             | 15<br>9<br>34                 | 3<br>11<br>674                 | 2<br>11<br>17<br>471           | 11<br>17<br>460            | 25<br>36<br>141<br>29                   | 8<br>7<br>167<br>704           | 10<br>4<br>27<br>664            | 10<br>5<br>44<br>541          |
| 38 weeks  | 18                                   | 17, 399                        | 16, 195                        | 21, 427                         | 64                            | 48, 389                        | 276, 296                       | 143, 202                   | 824                                     | 763, 765                       | 244, 478                        | 344, 248                      |
|   | Mer                                  | ingitis<br>coc                 | , meni<br>cus                  | ngo-                            |                               | Polior                         | nyelitis                       |                            |   | Scarle                         | t fever                         |                               |
| Division and State  | Sept.<br>24,<br>1938,<br>rate        | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases | 1933-<br>37<br>me-<br>dian      | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases | 1933-<br>37<br>me-<br>dian | Sept.<br>24,<br>1938,<br>rate           | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases  | 1933-<br>37<br>me-<br>dian    |
| New Eng.  Maine   | 0<br>0<br>0<br>0                     | 0<br>0<br>0<br>0               | 0<br>0<br>0<br>1<br>0          | 0<br>0<br>0<br>1<br>0           | 0<br>0<br>0<br>1. 2<br>0      | 0<br>0<br>0<br>1<br>0<br>0     | 6<br>1<br>3<br>21<br>2<br>11   | 6<br>0<br>1<br>19<br>1     | 12<br>31<br>82<br>47<br>8<br>36         | 2<br>3<br>6<br>40<br>1<br>12   | 5<br>0<br>1<br>51<br>5<br>17    | 7<br>8<br>4<br>55<br>12<br>15 |
| MID. ATL.  New York  New Jersey  Pennsylvania                                     | 1. 6<br>0<br>1. 5                    | 4<br>0<br>3                    | 2<br>2<br>5                    | 2<br>2<br>3                     | 2.0<br>4<br>4                 | 5<br>8<br>8                    | 61<br>21<br>66                 | 61<br>21<br>12             | 30<br>28<br>62                          | 74<br>23<br>121                | 99<br>26<br>125                 | 112<br>26<br>122              |
| E. NO. CEN. Ohio  | 0<br>1. 5<br>0<br>0                  | 0<br>1<br>0<br>0               | 3<br>1<br>4<br>3<br>2          | 3<br>1<br>4<br>1<br>1           | 0.8<br>0<br>4<br>4<br>11      | 1<br>0<br>6<br>4               | 28<br>10<br>60<br>63<br>44     | 20<br>3<br>12<br>20        | 69<br>56<br>72<br>135<br>112            | 89<br>37<br>109<br>125<br>63   | 111<br>60<br>156<br>144<br>46   | 122<br>60<br>156<br>88<br>76  |

See footnotes at end of table.

1803 October 7, 1988

Cases of certain diseases reported by telegraph by State health officers for the week ended Sept. 24, 1938, rates per 100,000 population (annual basis), and comparison with corresponding week of 1937 and 5-year median—Continued

| — www.correspond  |   |                                      | 7 100                                |   | u 0-y                                |   |                                | -000  | unue                          | <u>u</u>                              |                                   |                                |
|---|---|--------------------------------------|--------------------------------------|---|--------------------------------------|---|--------------------------------|---|-------------------------------|---------------------------------------|-----------------------------------|--------------------------------|
|   | Mei                                     | ingitia<br>coc                       | , meni<br>cus                        | ngo-                                      |                                      | Polio                                   | myeliti                        | s   |                               | Scarle                                | et fever                          |                                |
| Division and State  | Sept.<br>24,<br>1938,<br>rate           | Sept.<br>24,<br>1938,<br>cases       | Sept.<br>25,<br>1937,<br>cases       | 1933-<br>37<br>me-<br>dian                | Sept.<br>24,<br>1938,<br>rate        | Sept.<br>24,<br>1938,<br>cases          | Sept.<br>25,<br>1937,<br>cases | 1933-<br>37<br>me-<br>dian                      | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases        | Sept.<br>25,<br>1937,<br>cases    | 1933-<br>37<br>me-<br>dian     |
| W. NO. CEN.  Minnesota.  Iowa.  Missouri.  North Dakota i.  South Dakota.  Nebraska.  Kansas. | 0<br>0<br>1.3<br>7<br>0<br>4<br>6       | 0<br>0<br>1<br>1<br>0<br>1<br>2      | 4<br>0<br>0<br>0<br>0<br>0           | 1<br>0<br>0<br>0<br>0                     | 18                                   | 1 3<br>0 40<br>5 2                      |                                | 1 2<br>3 2<br>1 2<br>8 2                        |                               | 18<br>44<br>9                         | 36<br>75<br>5<br>6                | 49<br>12<br>4<br>13            |
| BO. ATL.  Delaware Maryland 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5                             | 0<br>3<br>0<br>1.9<br>11<br>0<br>6<br>0 | 0<br>1<br>0<br>1<br>4<br>0<br>2<br>0 | 0<br>1<br>0<br>1<br>2<br>1<br>1<br>0 | 0<br>1<br>0<br>2<br>2<br>2<br>1<br>0<br>0 | 1. 4<br>1. 4<br>1. 4<br>2. 8<br>1. 7 | 1 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |                                | 1 0 8 8 1 1 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30                            | 10<br>7<br>30<br>46<br>58<br>10<br>18 | 19<br>7<br>21<br>47<br>54<br>9    | 19<br>8<br>21<br>61<br>57<br>9 |
| E 80. CEN. Kentucky Tennessee 4 Alabama 4 Mississippi 3                                       | 4<br>4<br>4<br>3                        | 2<br>2<br>2<br>1                     | 3<br>2<br>2<br>1                     | 1<br>1<br>2<br>1                          | 1.8                                  | 1                                       | 1                              | 5 1<br>1 1<br>1 1                               |                               | 33<br>18                              | 58<br><b>33</b><br>17<br><b>7</b> | 58<br>43<br>18<br>15           |
| W. SO. CEN. Arkansas Loui iana 4 Oklahoma Texas 4   | 0<br>0<br>0<br>0                        | 0                                    | 0<br>0<br>1<br>4                     | 0<br>0<br>0                               | 8                                    |   | 1                              | 5 1   | 10<br>39                      | 4<br>19                               | 10<br>15                          | 13<br>10                       |
| MOUNTAIN  Montana   | 10<br>21<br>0<br>0<br>0<br>0            | 1<br>2<br>0<br>0<br>0                | 0<br>0<br>0<br>1<br>0<br>0           | 0<br>0<br>0<br>1<br>0<br>0                | 11                                   |   |                                | 1 3<br>2 0<br>3 2<br>1 1<br>1 0                 |                               | 8<br>1<br>13<br>7<br>9                | 12<br>9<br>10<br>2<br>4           | 9<br>4<br>15<br>2<br>5         |
| PACIFIC Washington Oregon California Total  | 0<br>0<br>0                             | 0<br>0<br>0<br>32                    | 0<br>1<br>6<br>57                    | 0<br>0<br>1<br>57                         | 1.7<br>2.7                           | 2                                       | 3                              | 3 27  | 168                           | 11<br>33<br>66<br>1, 387              | 16<br>7<br>97<br>1, 671           | 18<br>15<br>96<br>1,800        |
| 28 weeks  | 2.5                                     |                                      | 4, 446                               | 4, 446                                    |                                      | 1, 302                                  |                                | 5, 566  | 151                           | 142, 286                              |                                   |                                |
| Smallpe   |   |                                      |                                      | ox .                                      |                                      | Typho                                   | oid and<br>fev                 | parat;<br>er                                    | phoid                         |                                       | oping<br>igh                      |                                |
| Division and Sta  | ite                                     | Sep<br>24,                           |                                      | pt. S                                     | ept.<br>25,                          | 1933-<br>37                             | Sept.                          | Sept. 24,                                       | Sept.<br>25,                  | 1933-<br>37                           | Sept.                             | Sept. 24,                      |

| İ                  | Smallpox                      |                                |                                |                            | Typhoid and paratyphoid fever |                                |                                |                            | Whooping<br>cough                  |                                |
|--------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|-------------------------------|--------------------------------|--------------------------------|----------------------------|------------------------------------|--------------------------------|
| Division and State | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases | 1933-<br>37<br>me-<br>dian | Sept.<br>24,<br>1938,<br>rate | Sept.<br>24,<br>1938,<br>cases | Sept.<br>25,<br>1937,<br>cases | 1933–<br>37<br>me-<br>dian | Sept.<br>24,<br>1938,<br>rate      | Sept.<br>24,<br>1938,<br>cases |
| Maine              | 00000                         | 00000                          | 00000                          | 00000                      | 24<br>0<br>0<br>1<br>0        | 4<br>0<br>0<br>1<br>0          | 1<br>0<br>0<br>8<br>0<br>2     | 2<br>0<br>0<br>3<br>0      | 91<br>0<br>218<br>77<br>100<br>162 | 15<br>0<br>16<br>65<br>13      |

Cases of certain diseases reported by telegraph by State health officers for the week ended Sept. 24, 1938, rates per 100,000 population (annual basis), and comparison with corresponding week of 1937 and 5-year median—Continued

|   |   | 8n                                      | nallpox                                 |   | Ty                                | pho                      | oid at  | d para<br>ever                             | typhoid                               | W   | ooping                                      |
|---|---|---|---|---|-----------------------------------|--------------------------|---|--|---------------------------------------|---|---|
| Division and State  | Sept<br>24,<br>1938,<br>rate            | 24,<br>1938                             | 25,<br>1937                             | , 37<br>me-                             | 24<br>193                         | 8.                       | Sept.<br>24,<br>1938,<br>cases                  | 25,<br>1937                                | , 37<br>me-                           | Sept<br>24,<br>1938,<br>rate                | Sept. 24, 1938, cases                       |
| MID ATL.  |   |   |   |   |                                   |                          |   |  |                                       |   |   |
| New York<br>New Jersey<br>Pennsylvania  |   | )] (                                    |   |   | )                                 | 6 8                      | 23<br>5<br>16                                   | 1  | i i ii                                | 208   | 17  |
| B. NO. CEN. Ohio  | 0                                       |   | 1 2                                     |   |                                   | 9<br>5<br>13<br>15<br>5  | 12<br>3<br>19<br>14<br>3                        | 22   | 5 15<br>2 29                          | 12<br>224                                   | 336<br>291                                  |
| W. NO. CEN. Minnesota   | 2                                       |   |   |   | .                                 | 8                        | 4   | [  | 3 3                                   | 77  | 39  |
| Iowa Missouri North Dakota South Dakota Nebraska Kansas   | 1 2                                     |   | 0 0                                     |   | 1                                 | 6<br>18<br>22<br>0<br>11 | 3<br>14<br>3<br>0<br>3<br>5                     | 1 7  | 7 21 21 3 2 1 1                       | 37<br>34<br>126<br>23<br>31<br>84           | 18<br>26                                    |
| SO. ATL.  |   |   |   |   |                                   | ۱                        |   | İ  |                                       |   |   |
| Delaware Maryland <sup>2 8</sup> Dist of Col Virginia West Virginia North Carolina <sup>4</sup> South Carolina <sup>4</sup> Georgia <sup>4</sup> Florida <sup>4</sup> | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 000000000000000000000000000000000000000 | 2 4                               | 5 I                      | 0<br>13<br>3<br>24<br>21<br>15<br>14<br>15<br>6 | 1<br>18<br>0<br>22<br>10<br>18<br>14<br>15 | 18<br>2<br>26<br>24<br>18<br>20<br>23 | 20<br>90<br>58<br>79<br>109<br>220<br>159   | 1<br>29<br>7<br>41<br>39<br>147<br>57<br>10 |
| E. 80. CEN.   |   | l                                       |   |   |                                   | İ                        |   |  |                                       |   |   |
| Kentucky<br>Tennessee 4Alabama 4<br>Mississippi 3   | 0<br>2<br>0<br>0                        | 0<br>1<br>0<br>0                        | 0 0                                     | 0 0                                     | 3<br>3<br>2                       | 2<br>8<br>7<br>3         | 18<br>21<br>15<br>1                             | 38<br>14<br>7<br>6                         | 38<br>38<br>28<br>6                   | 39<br>47<br>85                              | 22<br>26<br>47                              |
| W. 80. CEN.   |   |   |   | İ                                       |                                   | ١                        |   |  | 1                                     | 1   |   |
| Arkansas<br>Louisiana 4<br>Oklahoma<br>Texas 4  | 0<br>0<br>0<br>1                        | 0<br>0<br>0<br>1                        | 0<br>0<br>1<br>0                        | 0 0                                     | 31<br>21<br>31<br>32              | 9                        | 15<br>12<br>15<br><b>45</b>                     | 22<br>26<br>12<br>64                       | 9<br>23<br>21<br>48                   | 41<br>64<br>6<br>63                         | 16<br>26<br>3<br>74                         |
| MOUNTAIN  |   |   | _                                       |   |                                   |                          |   |  |                                       |   |   |
| Montana<br>Idaho<br>Wyoming<br>Colorado<br>New Mexico<br>Arizona<br>Utah <sup>3</sup>   | 87<br>0<br>0<br>10<br>0<br>0            | 9<br>0<br>2<br>0<br>0                   | 5<br>1<br>0<br>0<br>0<br>0              | 0<br>0<br>0<br>0<br>0                   | 15<br>11<br>44<br>73<br>173<br>13 |                          | 2<br>1<br>2<br>15<br>14<br>1                    | 1<br>0<br>0<br>27<br>15<br>2<br>1          | 7<br>4<br>0<br>10<br>15<br>2<br>1     | 193<br>32<br>67<br>263<br>111<br>127<br>181 | 20<br>3<br>3<br>54<br>9<br>10<br>18         |
| PACIFIC   |   |   |   |   |                                   |                          |   |  |                                       |   |   |
| Washington<br>Dregon  | 6<br>41<br>3                            | 2<br>8<br>3                             | 25<br>1<br>3                            | 1<br>1<br>1                             | 19<br>15<br>11                    | 1                        | 6<br>3<br>13                                    | 6<br>2<br>21                               | 5<br>4<br>16                          | 60<br>76<br>148                             | 19<br>15<br>175                             |
| Total   | 2                                       | 42                                      | 49                                      | 24                                      | 18                                |                          | 444   | 578  | 697                                   | 129   | 3, 140                                      |
| 8 weeks   | 14                                      | 12, 894                                 | 8, 233                                  | 5, 451                                  | 12                                | 10,                      | ,890  | 11, 192                                    | 12, 801                               | 174   | 161, 455                                    |

New York City only.
 Period ended earlier than Saturday.
 Rocky Mountain spotted fever, week ended September 24, 1938, 2 cases, as follows: Maryland, 1; Vir-

Florida, 10: Tennessee, 1; Alabama, 13; Louisiana, 1; Texas, 10.

Later information states that a case reported as poliomyelitis in North Dakota, week ended Aug. 20, 1938, Public Health Reports, Sept. 2, 1938, p. 1582, was not poliomyelitis, but epidemic encephalitis.

## SUMMARY OF MONTHLY REPORTS FROM STATES

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

| State                 | Meningitis,<br>meningrococ-<br>cus                          | Diph-<br>theria  | Influ-<br>enza                        | Ma-<br>laria         | Mea-<br>sles   | Pel-<br>lagra | Polic-<br>mye-<br>itis  | Scarlet<br>fever   | Small-<br>pox  | Ty-<br>phoid<br>fever  |
|-----------------------|---|--|---------------------------------------|----------------------|--|---------------|---|--|--|--|
| August 1938  Colorado | 7 2 1 1 5 5 5 1 1 2 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 76<br>27<br>149<br>4<br>58<br>18<br>6<br>6<br>26<br>3<br>3<br>24<br>1<br>4 | 96 2 31 14 13 7 4 13 100 1 242 36 145 | 7,831<br>193<br>1275 | 29<br>25<br>63<br>23<br>115<br>60<br>28<br>38<br>126<br>179<br>97<br>21<br>112<br>18<br>83 | 21<br>124<br> | 1<br>3<br>5<br>2<br>34<br>111<br>2<br>2<br>14<br>7<br>7<br>3<br>1<br>7<br>5 | 45<br>8<br>40<br>12<br>290<br>6<br>6<br>142<br>9<br>89<br>89<br>33<br>30<br>33<br>30<br>26<br>57 | 12<br>0<br>0<br>4<br>19<br>10<br>14<br>0<br>13<br>0<br>2<br>2<br>2<br>0<br>6 | 21<br>20<br>153<br>12<br>110<br>38<br>43<br>8<br>4<br>39<br>5<br>77<br>79<br>6 |

<sup>1</sup> Delayed report of the following cases for the month of July 1938 has been received from Montana: Influenza, 4; measles, 1; tetanus, 1; whooping cough, 3.

#### August 1938

| Chickenpox: C               | ases | Encephalitis, epidemic or |        | Paratyphoid fever—Contd. Ca | ses |
|-----------------------------|------|---------------------------|--------|-----------------------------|-----|
| Colorado                    |      |                           | ases   | Maine                       | 2   |
| Florida                     |      | Kansas                    | 10     | Tennessee                   | 9   |
| Georgia                     | 2    | Minnesota.                | ğ      | Puerperal septicemia:       | -   |
| Idaho                       |      | Montana                   | 32     | Georgia                     | 1   |
| Illinois                    |      | South Dakota              | 3      | Idaho                       | ī   |
| Iowa                        |      | Tennessee                 | ĭ      | Mississippi                 | 26  |
| Kansas                      |      | German measles:           | •      | Tennessee                   | ž   |
| Maine                       |      | Illinois                  | 10     | Rabies in animals:          | _   |
| Minnesota                   |      | Kansas                    | ĩ      | Florida                     | 3   |
| Mississippi                 |      | Maine                     | ē.     | Illinois                    | 41  |
| Montana                     | 17   | Montana                   | ĕ      | Minnesota                   | 19  |
| Rhode Island                |      | Rhode Island              | ž      | Mississippi                 | 9   |
| South Dakota                |      | Hookworm disease:         | -      | Rhode Island                | 2   |
| Tennessee                   | ğ    | Florida                   | 125    | Rabies in man:              | _   |
|                             | •    | Georgia                   | 400    | Kansas                      | 1   |
| Colorado tick fever:        | _    |                           |        | Rocky Mountain spotted fe-  | -   |
| Colorado                    | 2    | Mississippi               | 1      | ver:                        |     |
| Conjunctivitis, infectious  |      | Tennessee                 | 1      | Idaho                       | 5   |
| Georgia.                    | 2    | Impetigo contagiosa:      |        | Illinois                    | 6   |
| Dengue:                     |      | Illinois                  | 33     | Iowa                        | ĭ   |
| Florida                     | 1    | Montana                   | .4     | Tennessee                   | 3   |
| Dysentery:                  |      | Tennessee                 | 15     | Septic sore throat:         | •   |
| Colorado (amoebic)          | 4    | Leprosy:                  |        | Colorado                    | 10  |
| Colorado (bacillary)        | 3    | Georgia                   | 1      | Florida                     | 2   |
| Florida (bacillary)         | ĭ    | Mumps:                    |        | Georgia                     | 49  |
| Georgia (amoebic)           | 12   | Colorado                  | 9      | Idaho                       | 2   |
| Georgia (bacillary)         |      | Florida                   | 13     | Illinois                    | 5   |
| Illinois (amoebic)          | 5    | Georgia                   | 30     | Iowa                        | ĭ   |
| Illinois (bacillary)        |      | Idaho                     | 17     | Kansas                      | 7   |
| Illinois (amoebic carriers) | ıĭi  | Illinois                  | 130    | Minnesota                   | 7   |
| Iowa (bacillary)            |      | Iowa                      | 45     | Montana                     | 3   |
| Kansas (amoebic)            | ĩ    | Kansas                    | 50     | Oklahoma                    | 49  |
| Minnesota (amoebic)         |      | Maine                     | 23     | Rhode Island                | 7   |
| Minnesota (bacillary)       | 19   | Mississippi               | 101    | South Dakota                | 3   |
| Mississippi (amoebic)       | 120  | Montana                   | 12     | Tennessee                   | 3   |
| Mississippi (bacillary)     | 715  | Oklahoma                  | 5      | Tetanus:                    |     |
| Montana (bacillary)         | ĭ    | Rhode Island              | 3      | Florida                     | 3   |
| Oklahoma (amoebic)          | 3    | South Dakota              | 10     | Georgia                     | ĭ   |
| Oklahoma (bacillary)        | 25   | Tennessee.                | 18     | Idaho                       | î   |
| Rhode Island (bacillary)    | ĩ    | Ophthalmia neonatorum:    |        | Illinois                    | ŝ   |
| Tennessee (amoebic)         |      | Illinois                  | 6      | Minnesota                   | ĭ   |
| Tennessee (bacillary)       |      | Mississippi               | 4      | Oklahoma                    | î   |
|                             | 70   | Tennessee                 | 3      | Tennessee                   | 2   |
| Encephalitis, epidemic or   |      |                           | J      | Trachoma:                   |     |
| lethargic:                  |      | Paratyphoid fever:        |        | Illinois                    | 58  |
| Colorado                    | 42   | Colorado                  | 1<br>5 | Minnesota                   | 2   |
| Idaho                       | 2    | Georgia                   |        | Minnesota                   | 6   |
| Illinois                    | 4    | Illinois                  | 11     |                             | ĭ   |
| Iowa                        | 4    | Kansas                    |        | CPIRIOTHS                   | -   |

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### Summary of monthly reports from States Continued

#### August 1938-Continued

| Tularaemia:<br>Georgia |     | Undulant fever—Contd. |    | Whooping cough: | Cases |
|------------------------|-----|-----------------------|----|-----------------|-------|
| Illinois               |     | Kansas                |    | Florida         |       |
| Kansas                 | 3   | Maine                 | 2  | Georgia         | 106   |
| Minnesota              | 1   | Minnesota             | 8  | Idaho           | 17    |
| Oklahoma               | 2   | Mississippi           | 2  | Illinois        |       |
| Tennessee              | 5   | Oklahoma              |    | Iowa            |       |
| Typhus fever:          |     | South Dakota          | 1  | Kansas          | 232   |
| Typhus fever: Florida  | 12  | Tennessee             | 2  | Maine           | 101   |
| Georgia                | 133 | Vincent's infection:  |    | Minnesota       | 249   |
| Mississippi            | 6   | Florida               | 34 | Mississippi     | 704   |
| Tennessee              |     | Idaho                 | 1  | Montana         | 260   |
| Undulant fever:        |     | Illinois              |    | Oklahoma        | 43    |
|                        |     | Kansas                | 16 | Rhode Island    | 99    |
| Colorado               |     | Maine                 | i  | South Dakota    |       |
| Florida                | 6   | Montana               |    | Tennessee       |       |
| Georgia                | 13  | Oklahoma              |    |                 |       |
| Illinois               | 38  | Tennessee             |    |                 |       |

#### PLAGUE INFECTION IN NEW MEXICO

Under date of September 20, 1938, Senior Surgeon C. R. Eskey reported plague infection proved in prairie dogs (*Cynomys gunnisoni zuniensis*) and in fleas from prairie dogs in Catron County as follows:

In one prairie dog found dead, September 1, 1938, 1 mile north of Adams Diggings; in 1 prairie dog found dead 4½ miles southwest of Adams Diggings; in a pool of tissue from 4 prairie dogs shot September 1, 1938, 1 mile northeast of Adams Diggings; and in a pool of 60 fleas from the 6 prairie dogs mentioned above.

#### CASES OF VENEREAL DISEASES REPORTED FOR JULY 1938

These reports are published monthly for the information of health officers in order to furnish current data as to the prevalence of the venereal diseases. The figures are taken from reports received from State end city health officers. They are preliminary and are therefore subject to correction. It is hoped that the publication of these reports will stimulate more complete reporting of these diseases.

## Reports from States

|   | Syp  | hilis   | Gond                                     | orrhea  |
|---|--|---|--|---|
|   | Cases reported during month                      | Monthly<br>case rates<br>per 10,000<br>population     | Cases re-<br>ported<br>during<br>month   | Monthly<br>case rates<br>per 10,000<br>population         |
| Alabama   | 2, 339   | 8. 08   | 316                                      | 1.09  |
| Arkansas. California. Colorado. Connecticut. Delaware. District of Columbia. Florida. | 998<br>1, 571<br>293<br>175<br>331<br>218<br>708 | 4.87<br>2.55<br>2.74<br>1.01<br>12.68<br>3.48<br>4.24 | 291<br>1, 188<br>157<br>86<br>68<br>208  | 1. 42<br>1. 93<br>1. 47<br>. 49<br>2. 61<br>8. 32<br>. 39 |
| Georgia       Idaho       Illinois       Indiana       Iowa       Kansas              | 2, 883<br>32<br>2, 452<br>274<br>252<br>171      | 9. 35<br>. 65<br>3. 11<br>. 79<br>. 99<br>. 92        | 440<br>20<br>1, 210<br>115<br>177<br>106 | 1. 43<br>. 41<br>1. 54<br>. 33<br>. 69<br>. 57            |
| Kentucky  | 583<br>761<br>47<br>1,018<br>388<br>950          | 2. 00<br>3. 57<br>. 55<br>6. 06<br>. 88<br>1. 97      | 299<br>107<br>45<br>284<br>354<br>614    | 1.02<br>.50<br>.53<br>1.69<br>.80                         |
| Minnesota Mississippi Missouri Montana  | 315<br>2, 478<br>842<br>32                       | 1. 19<br>12. 25<br>2. 11<br>. 59                      | 199<br>2, 472<br>466<br>26               | 75<br>12.22<br>1.17<br>.48                                |

See footnotes at end of table.

# Reports from States—Continued

|                 | 8ур   | hilis   | Gono  | rrhea  |
|-----------------|---|---|---|--|
|                 | Cases re-<br>ported<br>during<br>month  | Monthly<br>cases rates<br>per 10,000<br>population  | Cases re-<br>ported<br>during<br>month  | Monthly<br>case rates<br>per 10,000<br>population                      |
| Nebraska Nevada | 48<br>16<br>33<br>968<br>61<br>5, 449<br>4, 158<br>134<br>1, 464<br>4, 358<br>86<br>1, 358<br>1, 348<br>1, 464<br>27<br>1, 204<br>345 | . 35<br>1. 58<br>. 65<br>2. 23<br>1. 45<br>4. 20<br>11. 91<br>1. 90<br>2. 17<br>1. 80<br>. 84<br>1. 33<br>1. 45 | 49<br>20<br>15<br>301<br>13<br>1, 837<br>575<br>571<br>353<br>298<br>125<br>213<br>213<br>25<br>455<br>395<br>19<br>26<br>286<br>286<br>324 | . 36 1. 98 29 69 31 1. 42 1. 65 -72 52 2. 11 75 -75 -64 37 68 98 1. 95 |
| West Virginia   | 436<br>54   | 2.34  | 144<br>96   | .77  |
| Total           | 38, 535   | 3. 04   | 14, 966   | 1. 18  |

# Reports from cities of 200,000 population or over

|                              | , ——   | 1      | ·      |       |
|------------------------------|--------|--------|--------|-------|
| Akron, Ohio 2                |        |        |        |       |
| Atlanta, Ga                  | 340    | 11.84  | 67     | 2. 33 |
| Baltimore, Md                | 630    | 7.63   | 205    | 2.48  |
| Birmingham, Ala              | 333    | 11.80  | 70     | 2.48  |
| Boston, Mass                 | 126    | 1. 59  | 128    | 1.62  |
| Buffalo, N. Y.               | 166    | 2.80   | 36     | .61   |
| Chicago, Ill. <sup>1</sup>   | l      |        |        |       |
| Cincinnati, Ohio             | 219    | 4.70   | 79     | 1.70  |
| Cleveland, Ohio              | 213    | 2, 29  | 111    | 1. 19 |
| Columbus, Ohio.              | 54     | 1.77   | 18     | . 59  |
|                              |        |        |        |       |
| Dallas, Tex.1                |        |        |        |       |
| Dayton, Ohio 1               |        |        |        |       |
| Denver, Colo.1               | 443    | 2.56   | 290    | 1.68  |
| Detroit, Mich                |        | 2.00   |        |       |
| Houston, Tex.1               | 26     | . 69   | 28     | .74   |
| Indianapolis, Ind            | 1 55   | 1.03   | ์ เ    | .34   |
| Jersey City, N. J            | 1 22   | 1.71   | 6      | . 14  |
| Kansas City, Mo              | _::    | 4.93   | 390    | 2.72  |
| Los Angeles, Calif           | 705    |        | 95     | 2. 93 |
| Louisville, Ky               | 241    | 7. 44  | 82     | 3.07  |
| Memphis, Tenn                | 304    | 11. 39 | 02     | 0.01  |
| Milwaukee, Wis.3             |        |        |        | 1.05  |
| Minneapolis, Minn            | 56     | 1. 15  | 51     | 1.00  |
| Newark, N. J.1               |        |        |        |       |
| New Orleans, La.1            |        |        |        | 1.83  |
| New York, N. Y               | 4, 304 | 5.89   | 1, 337 | 1.83  |
| Oakland, Calif. <sup>1</sup> |        |        |        |       |
| Omaha, Nebr                  | 31     | 1.41   | 18     | .82   |
| Philadelphia. Pa             | 553    | 2.78   |        |       |
| Pittsburgh, Pa.              | 237    | 3.46   | 26     | . 38  |
| Portland, Oreg               |        | 1.72   | 55     | 1.75  |
| Providence, R. I.            | 59     | 2, 28  | 28     | 1.08  |
| Providence, R. 1             | 1 50   | . 59   | 46     | 1.36  |
| Rochester, N. Y.             | 400    | 5, 88  | 370    | 4.43  |
| St. Louis, Mo                | 53     | 1.88   | 19     | . 67  |
| St. Paul, Minn               | 100    | 4.06   | 55     | 2, 19 |
| San Antonio, Tex             |        | 1.73   | 191    | 2.85  |
| San Francisco, Calif         | 102    | 2.69   | 98     | 2.58  |
| Seattle, Wash                | 1      | 2.84   | 1 10   | .46   |
| Syracuse, N. Y               | 1      | 2.04   | 1      |       |
| Toledo, Ohio 1               |        | 3, 48  | 208    | 3, 32 |
| Washington, D. C.3           | 213    | 3.48   | 200    | 0.02  |
| <del>-</del> ,               | ı      | •      | •      | •     |

<sup>&</sup>lt;sup>1</sup> No report for current month. <sup>2</sup> Not reporting.

<sup>8</sup> Reported by Social Hygiene Clinic.

1808 October 7, 1938

## ANNUAL CASE RATES PER 1,000 POPULATION FOR SYPHILIS AND GONORRHEA, FISCAL YEAR 1938

This statement is based on monthly reports received from State and city departments of health.

## Rates for States

|  |   | rates per<br>pulation   |  |  | rates per<br>pulation   |
|--|---|---|--|--|---|
|  | Syphilis  | Gonor-<br>rhea  |  | Syphilis   | Gonor-<br>rhea  |
| Alabama Arizona Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Florida Georgia Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maryland Masyland Massachusetts Michigan Minesota Mississippi Missouri Missouri Montana | 1. 99 5. 62 3. 78 1. 22 1. 56 10. 82 4. 16 14. 19 7. 63 1. 11 3. 08 1. 09 1. 54 1. 34 2. 79 4. 17 78 7. 27 1. 33 2. 56 1. 29 13. 26 | 1. 43<br>2. 60<br>1. 78<br>3. 07<br>. 84<br>2. 26<br>3. 32<br>1. 76<br>1. 69<br>. 81<br>1. 84<br>1. 84<br>1. 40<br>. 58<br> | Nebraska Nevada Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin | 4. 20<br>2. 44<br>3. 48<br>6. 66<br>11. 19<br>6. 42<br>2. 64<br>2. 26<br>2. 27<br>1. 75<br>2. 37<br>59<br>4. 11<br>3. 22<br>2. 56<br>4. 87<br>2. 29<br>2. 32<br>2. 3 | 0. 86 1. 29 . 33 . 83 1. 19 1. 96 2. 11 . 71 . 76 1. 64 2. 20 . 29 . 96 2. 23 . 45 1. 62 . 98 . 49 . 83 1. 43 2. 51 . 70 . 51 |

## Rates for cities

|                                 |       |       | п   |       |              |
|---------------------------------|-------|-------|---|-------|--------------|
| Akron, Ohio 3                   |       |       | Milwaukee, Wis.1  |       |              |
| Akron, Ohio <sup>2</sup>        | 10.37 | 5.48  | Minneapolis, Minn.2   | 1.88  | 1.87         |
| Baltimore, Md.                  | 9.03  | 2.86  | Newark, N. J.   | 7.96  |              |
| Birmingham, Ala                 | 11.69 |       | Newark, N. J. <sup>2</sup><br>New Orleans, La. <sup>2</sup> | 1.58  |              |
| Boston, Mass                    | 2.89  | 2.45  | New York, N. Y  | 9.45  | 2.46         |
| Buffalo, N. Y                   | 3.22  | 1.47  | Oakland, Calif.2  | 2,48  |              |
| Chicago, Ill                    | 3.69  | 2.62  | Omaha, Nebr<br>Philadelphia, Pa. <sup>2</sup>               | 2.14  | 1.82         |
| Cincinnati, Ohio 2              | 5. 51 | 2.03  | Philadelphia, Pa.   | 3.26  |              |
| Cleveland, Ohio                 |       | 1. 19 | Pittsburgh, Pa  |       | .48          |
| Columbus, Ohio                  |       | . 76  | Portland, Oreg.   | 1.73  | 2,96         |
| Dallas, Tex                     |       |       | Providence, R. I.3  | 2.57  | 1.42         |
| Dayton, Ohio                    | 4.37  | . 57  | Rochester, N. Y   |       | 1.68         |
| Denver, Colo.                   | 2. 43 |       | St. Louis, Mo   | 4.03  | 2.08         |
| Detroit, Mich.                  |       | 1.99  | St. Paul, Minn.   |       | 1.04         |
| Houston, Tex.3                  | 7.31  | 1.86  | San Antonio, Tex.3  | 5. 43 | 3. 14        |
| Indianapolis, Ind. <sup>2</sup> | . 82  | .99   | San Francisco, Calif  | 3. 27 | 3.80         |
| Jersey City, N. J.2             | 1.34  | . 35  | Seattle, Wash   | 4.49  | 4.36         |
| Kansas City, Mo                 | 2. 14 | . 15  | Syracuse, N. Y.   | 4. 56 | <b>2.3</b> 8 |
| Los Angeles, Calif.3            |       | 3.75  | Toledo, Ohio 1  | 6.03  | 2.09         |
| Louisville, Ky                  |       | 4.42  | Washington, D. C.3  | 4, 16 | 3.32         |
| Memphis, Tenn                   | 14.05 | 3.96  |   |       |              |
|                                 |       |       | i i   |       |              |

Not reporting.
 Based on reports for only a part of the fiscal year.
 Reports submitted by Social Hygiene Clinic.

## WEEKLY REPORTS FROM CITIES

City reports for week ended Sept. 17, 1938

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table.

| State and city                        | Diph-<br>theria | lnfl     | uenza  | Mea-<br>sles | Pneu-<br>monia | Scar-<br>let    | Small<br>pox | Tuber-<br>culosis | Ty-<br>phoid   | Whoop-        | Deaths,       |
|---------------------------------------|-----------------|----------|--------|--------------|----------------|-----------------|--------------|-------------------|----------------|---------------|---------------|
| State and city                        | cases           | Cases    | Deaths | cases        | deaths         | fe ver<br>cases | cases        | deaths            | fever<br>cases | cases         | causes        |
| Data for 90 cities:<br>5-year average | 138             | 61       | 17     | 121          | 310<br>289     | 368<br>325      | 3 2          | 341<br>247        | 89<br>73       | 954<br>1, 471 |               |
| Current week 1.                       | 88              | 36       | 6      | 167          | 289            | 323             |              | 241               |                | 1,4/1         |               |
| Maine: Portland                       | 0               |          | 0      | 1            | 2              | 0               | 0            | 0                 | 0              | 0             | 25            |
| New Hampshire:<br>Concord             | 0               |          | O O    | 0            | 0              | 0               | . 0          | 0                 | 0              | 0             | 6             |
| Manchester                            | 0               |          | 8      | 0            | 0              | 0               | 0            | 0                 | 0              | 0             | 7 9           |
| Nashua<br>Vermont:                    | ľ               |          | Ī .    | _            |                |                 | i i          | 1                 |                | l             | l .           |
| Barre                                 | Į o             |          | 0      | 0            | 0              | 0               | 0            | 0                 | 0              | 0             | 1 8           |
| Burlington<br>Rutland                 | 0               |          | l ö    | Ö            | 0              | ŏ               | lő           | ŏ                 | ŏ              | Ô             | 3             |
| Massachusetts:                        | ł               |          | l      | 1            | ļ              |                 | 0            | ٠,,               | 3              | 14            | 199           |
| Boston                                | 0               |          | 0      | 1 0          | 11             | 12              | 0            | 13                | ő              | 3             | 31            |
| Fall River<br>Springfield             | ŏ               |          | 0      | 0            | Ō              | 0               | 0            | 1                 | 0              | 1             | 35            |
| Worcester                             | 1               |          | 0      | 1            | 3              | 1               | 0            | 0                 | 0              | 15            | 50            |
| Rhode Island:<br>Pawtucket            | 0               |          | 0      | 0            | 3              | 0               | 0            | 1                 | 0              | 0             | 15            |
| Providence                            | ŏ               |          | Ŏ      | 2            | 3              | 0               | 0            | 2                 | 1              | 5             | 59            |
| Connecticut:                          | 0               | 1        | 0      | 0            | 1              | 1               | 0            | 0                 | 0              | 0             | 38            |
| Bridgeport<br>Hartford                | Ó               |          | 0      | 0            | 1              | 4               | 0            | 1                 | 0              | .3            | 55<br>30      |
| New Haven                             | 0               |          | 0      | 0            | 1              | 0               | 0            | 1                 | 2              | 14            | 30            |
| New York:                             | l               | İ        | ļ      |              | l              | l               |              |                   | _              |               |               |
| Buffalo                               | 0               |          | 0      | 2            | 9<br>47        | 9<br>15         | 0            | 66                | 0<br>12        | 13<br>343     | 119<br>1, 273 |
| New York                              | 16<br>0         | 1        | 0      | 19           | 4              | 13              | l ŏ          | ű                 | 1              | 9             | 59            |
| Rochester<br>Syracuse                 | l ŏ             |          | Ŏ      | ŏ            | 3              | 3               | Ö            | 0                 | 1              | 16            | 38            |
| New Jersey:                           |                 | 1        | ١ ,    | 1            | 1              | 1               | 0            | 0                 | 0              | 1 1           | 27            |
| Camden<br>Newark                      | 0               |          | 6      | 6            | l î            | 1               | 0            | 9                 | 0              | 58            | 94            |
| Trenton                               | Ŏ               |          | 0      | 1            | 1              | 2               | 0            | 3                 | 0              | 1             | 41            |
| Pennsylvania:                         | 2               | 1        | 1      | 1            | 10             | 15              | 0            | 23                | 3              | 112           | 411           |
| Philadelphia<br>Pittsburgh            | 4               | l        | 0      | 0            | 4              | 17              | 0            | 12                | 1              | 22            | 136<br>18     |
| Reading                               | 2 0             |          | 0      | 1 0          | 0              | 0               | 0            | 0                 | 0              | l ŏ           | 10            |
| Scranton                              | ۰               |          |        | ١            |                | 1               | *            |                   |                |               | ľ             |
| Ohio:                                 | ١.              |          | 1      | 0            | 3              | 4               | 0            | 5                 | 0              | 4             | 121           |
| Cincinnati<br>Cleveland               | 3 6             | 7        | Ô      | 7            | 5              | 12              | 0            | 11                | 3              | 90            | 156           |
| Columbus                              | 1               | 1        | 1      | 0 2          | 2 2            | 2 2             | 0            | 4 7               | 0              | 0             | 76<br>72      |
| ToledoIndiana:                        | 0               |          | 0      | 1            | <b>!</b> .     | l               | l            | l                 |                |               | 1             |
| Anderson                              | 0               |          | 0      | 0            | 1              | 2               | 0            | 0                 | 0              | 0             | 7 22          |
| Fort Wayne                            | 1<br>2          |          | 0      | 0 2          | 2 4            | 0<br>11         | 0            | 1 3               | l ŏ            | 7             | 102           |
| Indianapolis<br>Muncie                | ő               |          | 0      | 0            | 1              | 0               | 0            | 0                 | 0              | 0             | 9<br>17       |
| South Bend                            | 0               |          | 0      | 1 0          | 1 0            | 0 2             | 0            | 0                 | 0              | 0             | 16            |
| Terre Haute Illinois:                 | 0               |          | 0      | l            | 1              | ł               |              | 1                 |                |               |               |
| Alton                                 | 0               |          | 0      | 0            | 0              | 0<br>41         | 0            | 1<br>26           | 0 7            | 220           | 15<br>(05     |
| Chicago                               | 9               | 4        | 1 0    | 5 0          | 17             | 1 10            | l ó          | 0                 | 0              | 0             | 9             |
| Elgin<br>Moline                       | Ĭŏ              |          | 0      | 0            | 0              | i               | 2            | 0                 | 0              | 0             | 8<br>15       |
| Springfield                           | 0               | 1        | 0      | 0            | 0              | 0               | 0            | 0                 | 0              | •             |               |
| Michigan:<br>Detroit                  | 5               |          | 0      | 3            | 8              | 29              | 0            | 17                | 0              | 125           | 223           |
| Flint                                 | 0               |          | 0      | 0            | 3              | 5<br>10         | 0            | 3 0               | 3 0            | 14            | 16<br>30      |
| Grand Rapids                          | 0               |          | 0      | 2            | 1              | 10              |              |                   | İ              | l             |               |
| Wisconsin:<br>Kenosha                 | 0               | <b> </b> | 0      | 0            | 1              | 2               | Q            | 0                 | 0              | 8             | 2<br>12       |
| Madison                               | Ŏ               |          | 0      | 2            | 0              | .0              | 0            | 0 7               | 8              | 125           | 98            |
|                                       |                 |          |        |              |                |                 |              |                   |                |               |               |
| Milwaukee<br>Racine                   | 2               |          | 0      | 0            | 0              | 15<br>2<br>5    | Ŏ            | Ö                 | 0              | 44            | 13            |

<sup>&</sup>lt;sup>1</sup> Figures for Los Angeles, Calif., estimated; report not received.

# City reports for week ended Sept. 17, 1938-Continued

| State and city               | Diph-<br>theria | Inf   | uenza  | Mea-   | Pneu-           | Scar-<br>let   | Small        | Tuber-  | Ty-<br>phoid   | Whoop-  | Deaths,         |
|------------------------------|-----------------|-------|--------|--------|-----------------|----------------|--------------|---------|----------------|---------|-----------------|
| State and city               | cases           | Cases | Deaths | Ca.ses | monia<br>deaths | fever<br>cases | pox<br>cases | deaths  | fever<br>cases | cases   | ell<br>causes   |
| Minnesota:                   |                 | l     |        | _      |                 | _              |              |         |                |         |                 |
| Duluth<br>Minneapolis        | 0 2             |       | 8      | 0 7    | 8               | 3 4            | 0            | 1 4     | 0              | 2<br>14 | 18<br>103       |
| St. Paul                     | ő               |       | ŏ      | 7      | 4               | 5              | lŏ           | ō       | ō              | 6       | 44              |
| Iowa:<br>Davenport           | 0               |       |        | 0      | l               | 0              | 1            |         | 0              |         | I               |
| Des Moines                   | ŏ               |       | 0      | 0      | ō               | 1              | Ô            | 0       | ŏ              | 0       | 26              |
| Sioux City                   | 0               |       |        | 2      |                 | 1              | 0            |         | 0              | Ŏ       |                 |
| Waterloo<br>Missouri:        | 1               |       |        | 1      |                 | 1              | 0            |         | 0              | 0       |                 |
| Kansas City                  | 1               |       | 0      | 0      | 8               | 5              | 0            | 6       | 0              | 2       | 90<br>22        |
| St. Joseph<br>St. Louis      | 1 4             |       | 0      | 0      | 0               | 1<br>5         | 0            | 0<br>10 | 0<br>1         | 0       | 22<br>225       |
| North Dakota:                | _               |       | i i    |        |                 |                | -            |         |                | 1       |                 |
| Fargo<br>Grand Forks         | 0               |       | 0      | 7      | 0               | 2<br>0         | 0            | 0       | 0              | 0       | 4               |
| Minot                        | li              |       | 0      | ĭ      | 0               | ŏ              | ŏ            | 0       | ŏ              | ŏ       | 5               |
| South Dakota:                |                 |       |        | _      |                 | 0              | 0            |         | 0              | 0       |                 |
| Aberdeen<br>Sioux Falls      | 0               |       | ·ō     | 0      | 0               | ŏ              | ŏ            | 0       | ŏ              | ŏ       | 12              |
| Nebraska:                    | -               |       |        | _      | 1               | - 1            |              |         | -              | -       |                 |
| Omaha<br>Kansas:             | 0               |       | 0      | 1      | 2               | 0              | 0            | 1       | 0              | 1       | 49              |
| Lawrence                     | 0               |       | 0      | 0      | 0               | 0              | 0            | 0       | 0              | 0       | 1               |
| Topeka                       | 0<br>1          |       | 0      | 0      | 0 4             | 1 2            | 0            | 0 2     | 0              | 3       | 13<br>30        |
| Wichita                      | 1               |       | ١      |        | -               | •              |              | -       | •              | •       | 30              |
| Delaware:                    |                 |       |        |        | 0               |                | 0            | 0       | 1              | 2       | 94              |
| Wilmington Maryland:         | 0               |       | 0      | 0      | ا               | 0              | U            | ١       | - 1            | -       | 34              |
| Baltimore                    | 1               | 1     | 0      | 9      | 11              | 3              | 0            | 11      | 2              | 30      | 187             |
| Cumberland<br>Frederick      | 0               |       | 0      | 0      | 0               | 0              | 0            | 0       | 0              | 0       | 12<br>2         |
| Dist. of Col.:               |                 |       |        |        |                 |                | -            |         |                |         |                 |
| Washington<br>Virginia:      | 0               |       | 0      | 1      | 8               | 8              | 0            | 11      | 6              | 5       | <b>3</b> 15     |
| Lynchburg                    | 1               |       | 0      | 0      | 1               | 0              | 0            | 0       | 0              | 0       | 7               |
| Norfolk                      | 0<br>2          |       | 0      | 0      | 2               | 1 4            | 8            | 1 1     | 0              | 0       | 17<br>57        |
| Richmond<br>Roanoke          | ő               |       | ŏ      | ŏ      | δl              | 4              | ŏ            | 2       | ĭ              | i       | 19              |
| West Virginia:               |                 |       | 0      | ٥      | 2               | 1              | 0            | 0       | 2              | 1       | 26              |
| Charleston<br>Huntington     | 0               |       |        | ŏ      |                 | ő              | ŏ            |         | ĩ l            | δĺ      |                 |
| Wheeling                     | Ö               |       | 0      | 1      | 1               | 0              | 0            | 0       | 0              | . 1     | 18              |
| North Carolina:<br>Gastonia  | o               |       |        | اه     |                 | 0              | 0            |         | 0              | 0       |                 |
| Raleigh                      | Ó               |       | 0      | Ō      | 1               | Ó              | 0            | 1       | 0              | 5       | 12              |
| Wilmington<br>Winston-Salem. | 1<br>0          |       | 8      | 0<br>3 | 2 2             | 0              | 0            | 0       | 0              | 6       | 10<br>13        |
| South Carolina:              | - 1             |       |        |        |                 | - 1            |              |         | 1              | - 1     |                 |
| Charleston                   | 0               | 5     | 8      | 0      | 4 2             | 8              | 0            | 3 1     | 1 0            | 0       | 21<br>13        |
| Florence<br>Greenville       | ŏ               |       | ŏ      | ŏ      | ő               | ĭ              | ŏ            | i l     | ŏ              | 2       | 8               |
| Georgia:                     | 7               | 2     | اه     | 0      | 6               | 3              | 0            | 4       | 0              | 10      | 84              |
| Atlanta<br>Brunswick         | 6               |       | ŏ      | ŏ      | 1               | ő              | 0            | Ō       | 0              | 0       | 6               |
| Savannah                     | 0               | 2     | 0      | 0      | 1               | 0              | 0            | 4       | 2              | 1       | <b>39</b>       |
| Florida:<br>Miami            | اه              | 1     | ol     | ol     | 1               | 1              | 0            | 1       | 1              | 1       | 21              |
| Tampa                        | i               |       | Ō      | 0      | 1               | 0              | 0            | 1       | 1              | · 1     | 21              |
| Kentucky:                    |                 |       | - 1    | l      |                 | ı              | - 1          |         |                | _       |                 |
| Ashland                      | 0               |       | 0      | 8      | 1 0             | 8              | 8            | 8       | 0              | 8       | 14<br>13        |
| Covington<br>Lexington       | 3               |       | ŏ      | 2      | ŏ               | 2              | 0            | Ŏ       | O              | Ö       | 18              |
| Louisville                   | 2               |       | Ó      | 0      | 1               | 5              | 0            | 7       | 0              | 12      | 72              |
| Tennessee:<br>Knoxville      | 3               | 5     | o      | اه     | o               | 1              | o            | o       | 0              | 1       | 21              |
| Memphis                      | 1               |       | 1      | Ó      | 3               | 0              | Ó            | 2       | 1              | 0       | 77<br><b>43</b> |
| Nashville<br>Alabama:        | 3               |       | 0      | 0      | 4               | 0              | 0            | 1       | 1              | 1       | 95              |
| Birmingham                   | o l             |       | 0      | 0      | 4               | 2              | 0            | 2       | 0              | o l     | 57              |
| Mobile<br>Montgomery         | 0               |       | 0      | 8      | 1               | 0              | 0            | 2       | 0              | 8       | 18              |
|                              | ١               |       |        | ۲      |                 | -              | ٠,           |         | Ť              | Ĭ       |                 |
| Arkansas:<br>Fort Smith      | 1               | 1     |        |        | į               | اه             | ٥            |         | 2              | اه      |                 |
| Little Rock                  | ٥١              |       | 0      | ŏl     | 2               | ŏİ             | ŏ            | 0       | ōΙ             | 2       |                 |
| ·                            |                 |       |        |        |                 |                |              |         |                |         |                 |

City reports for week ended Sept. 17, 1938—Continued

|                            | Diph-           | Influenza |        | Mea-          | Pneu-           | Scar-<br>let   | Small        | Tuber-   | Ty-<br>phoid   | Whoop-   | Deaths,       |
|----------------------------|-----------------|-----------|--------|---------------|-----------------|----------------|--------------|----------|----------------|----------|---------------|
| State and city             | theria<br>cases | Cases     | Deaths | sles<br>cases | monia<br>deaths | fever<br>cases | pox<br>cases | deaths   | fever<br>cases | cases    | all<br>causes |
| Louisiana:                 |                 |           |        |               |                 |                |              |          |                |          |               |
| Lake Charles               | 0               |           | 0      | 1             | 1               | 0              | 0            | 1        | 0              | 0        | 4             |
| New Orleans                | 0               |           | 0      | 4 0           | 19<br>3         | 1              | 0            | 14<br>2  | 2              | 10       | 154<br>22     |
| Shreveport                 | U               |           |        | יי            | 3               | U              | ľ            | 2        | U              | ٠ ا      | 22            |
| Oklahoma:<br>Oklahoma City | 0               | 1         | ا ه    | 0             | o               | 0              | 0            | 1        | 0              | ۱ ،      | 41            |
| Texas:                     | ľ               |           | ľ      | ľ             | ľ               | •              | ľ            | _        | ľ              | ľ        |               |
| Dallas                     | 0               | l         | 0      | 0             | 3               | 4              | 0            | 2        | 2              | 1        | 55            |
| Fort Worth                 | 1               |           | 0      | 0             | 0               | 1              | 0            | 2 2      | 1              | 2        | 18            |
| Galveston                  | 0               |           | 0      | 0             | 2               | 0              | 0            | 5        | 0 2            | 0        | 11            |
| Houston                    | 2               |           | 0      | 0             | 4               | 1              | 0            | 8        | 1              | 1 8      | 73<br>52      |
| San Antonio                | 3               |           | 0      | י ו           | 1               | 1              | ١ ،          | °        | ٠ ا            | ١ ،      | 32            |
| Montana:                   |                 | l         |        | l             | l               |                | ĺ            | ĺ        |                |          | l             |
| Billings                   | 1 0             |           | 0      | 0             | 0               | 0              | 0            | 0        | 1              | 2        | 16            |
| Great Falls                | l õ             |           | 1      | 0             | 0               | 0              | 0            | 0        | 1              | 0        | 7             |
| Helena                     | 0               |           | 0      | 0             | 0               | 0              | 0            | 0        | 0              | 0 3      | 3 6           |
| Missoula                   | 0               |           | 0      | 0             | 0               | 0              | 0            | 0        | 1              | 1 3      | ٥ ا           |
| Idaho:                     | ١,              | 1         | ١ ,    | 0             | 1               | ه ا            | 0            | 0        | 0              | 1 0      | 5             |
| Boise                      | 0               |           | 0      |               | 1               | ٠ ١            | ľ            | ١        | ١              | 1 "      |               |
| Colorado:                  | l               | l         |        |               | ł               | ł              |              | l        |                | ł        | i             |
| Springs                    | l o             | 1         | 0      | 1 0           | 0               | 1 0            | 0            | 0        | 1              | 3        | 6             |
| Denver                     | 5               |           | Ì      | 2             | 3               | 1              | 0            | 3        | 1              | 15       | 73            |
| Pueblo                     | Ó               |           | 0      | 0             | 0               | 0              | 0            | 0        | 1              | 0        | 3             |
| New Mexico:                |                 |           |        |               |                 |                | ١.           |          | ۰              | 0        | 16            |
| Albuquerque                | 0               |           | 0      | 0             | 0               | 1              | 0            | 6        | י ן            | ١ ،      | 10            |
| Utah:                      | 0               | l .       | 0      | 1             | 1               | 5              | 0            | 0        | 1 0            | 8        | 26            |
| Salt Lake City.            | ٠ ١             |           | ١ ،    |               | 1 1             | ١ ،            | ľ            |          | ľ              |          | 1 -           |
| Washington:                | İ               | l         |        | 1             |                 | 1              | l            | İ        | İ              |          |               |
| Seattle                    | 0               |           | 0      | 0             | 1               | 1              | 2            | 2        | 0              | 13       | 70            |
| Spokane                    | Ó               |           | 0      | 1             | 0               | 0              | 0            | 0        | 0              | 1        | 26<br>24      |
| Tacoma                     | 0               |           | 0      | 0             | 1               | 1              | 0            | 0        | 1              | 0        | 24            |
| Oregon:                    | ١ .             | i         | ١.     | 0             | 2               | 3              | 0            | 0        | 1              | 6        | 63            |
| Portland                   | 0               |           | 0      | 8             | 2               | 1 0            | ŏ            | ١ ٠      | Ô              | l ŏ      |               |
| Salem                      | 0               |           |        | ١ ٥           |                 | ١ ،            | ١ ،          |          | ľ              | "        |               |
| California:<br>Los Angeles | 4               | 6         | 0      | 33            | 8               | 19             | 0            | 15       | 0              | 26       | 284           |
| Sacramento                 | Ī               | lŏ        | ŏ      | 2             | ŏ               | 1              | Ö            | 0        | 1              | 4        | 25            |
| San Francisco              | ŏ               | ľ         | ŏ      | ?8            | 3               | 11             | 0            | 4        | 0              | 14       | 149           |
| 2011 - 11-120011           | 1               | 1         | l      | 1             | l               | i              | <u> </u>     | <u> </u> |                | <u> </u> | 1             |

| State and city             |  | ngitis,<br>ococcus                                  | Polio-<br>mye-<br>litis                   | State and city   | Meni<br>mening                       | Polio-<br>mye-<br>litis         |                                      |
|----------------------------|--|---|---|--|--------------------------------------|---------------------------------|--------------------------------------|
|                            | Cases  | Deaths  | cases                                     | _  | Cases                                | Deaths                          | case                                 |
| Massachusetts: Springfield | 1<br>1<br>1<br>2<br>0<br>0<br>0<br>1<br>1<br>1 | 0<br>0<br>0<br>1<br>0<br>0<br>0<br>0<br>1<br>0<br>0 | 0<br>0<br>0<br>4<br>1<br>7<br>0<br>0<br>0 | Minnesota:     Duluth     Minneapolis Missouri:     St. Louis North Dakota:     Minot Delaware:     Wilmington Maryland:     Baltimere District of Columbia:     Washington Kentucky:     Ashland Alabama: Birmingham Montgomery | 0<br>0<br>1<br>1<br>1<br>1<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 3<br>1<br>0<br>0<br>0<br>1<br>5<br>0 |

Encephalitis, epidemic or lethargic.—Cases: Boston, 2; Providence, 1; New York, 1; St. Paul, 1; Sioux City, 1; St. Joseph, 1; St. Louis, 1; Minot, 3; Omaha, 1; Denver, 3; Sacramento, 1.

Pellagra.—Cases: Boston, 1; Atlanta, 4; Brunswick, 1; Savannah, 1; Memphis, 1; Montgomery 2; New Orleans, 1.

Typhus fever.—Cases: Charleston, S. C., 5; Atlanta, 1; Savannah, 1; Miami, 1; Fort Worth, 1.

## FOREIGN AND INSULAR

#### CANADA

Provinces—Communicable diseases—2 weeks ended September 10, 1938.—During the 2 weeks ended September 10, 1938, cases of certain communicable diseases were reported by the Department of Pensions and National Health of Canada, as follows:

| Disease                  | Prince<br>Edward<br>Island | Nova<br>Scotia | New<br>Bruns-<br>wick | Que-<br>bec                           | Onta-<br>rio   | Mani-<br>toba | Sas-<br>katch-<br>ewan                                      | Al-<br>berta | British<br>Colum-<br>bia                            | Total  |
|--------------------------|----------------------------|----------------|-----------------------|---------------------------------------|--|---------------|---|--------------|---|--|
| Cerebrospinal meningitis | 8                          | 9              | 7 11 7 7              | 1 22 43 5 5 11 11 1 1 5 66 105 37 119 | 3<br>23<br>6<br>17<br>4<br>3<br>3<br>46<br>20<br>6<br>16<br>16<br>28<br>68 | 15 7 1 1      | 10<br>21<br>1<br>7<br>3<br>2<br>2<br>5<br>11<br>1<br>2<br>4 | 4 4 4        | 15<br>15<br>12<br>16<br>6<br>3<br>3<br>6<br>6<br>12 | 5<br>125<br>90<br>32<br>11<br>15<br>9<br>71<br>48<br>10<br>22<br>86<br>237<br>1<br>249<br>80<br>4<br>570 |

<sup>1</sup> For 2 weeks ended Sept. 14, 1938.

Vital statistics—First quarter 1938.—The Bureau of Statistics of the Dominion of Canada has published the following preliminary statistics for the first quarter of 1938. The rates are computed on an annual basis. There were 19.8 live births per 1,000 population during the first quarter of 1938 and 19.4 per 1,000 population during the first quarter of 1937. The death rate was 10.3 per 1,000 population for the first quarter of 1938 and 11.8 per 1,000 population for the first quarter of 1937. The infant mortality rate for the first quarter of 1938 was 72 per 1,000 live births and 87 per 1,000 live births for the first quarter of 1937. The maternal death rate was 4.4 per 1,000 live births for the first quarter of 1938 and 5.6 per 1,000 live births for the same quarter of 1937.

The accompanying tables give the numbers of births, deaths, and marriages, by Provinces, for the first quarter of 1938 and deaths by causes in Canada for the first quarter of 1938 and the corresponding quarter of 1937.

## Number of births, deaths, and marriages, first quarter 1938

| Province  | Live<br>births   | Deaths<br>(exclusive<br>of still-<br>births)   | Deaths<br>under<br>1 year<br>of age                                     | Maternal<br>deaths                                | Marriages  |
|---|--|--|---|---|--|
| Canada 1 Prince Edward Island Nova Scotia. New Brunswick Quebec Ontario. Manitoba Saskatchewan Alberta. British Columbia. | 54, 711<br>463<br>2, 765<br>2, 696<br>18, 813<br>15, 782<br>3, 242<br>4, 264<br>3, 699<br>2, 987 | 28, 395<br>294<br>1, 652<br>1, 293<br>8, 863<br>9, 835<br>1, 457<br>1, 492<br>1, 616<br>1, 893 | 3, 939<br>44<br>200<br>231<br>1, 851<br>848<br>172<br>213<br>237<br>143 | 243<br>2<br>13<br>14<br>99<br>63<br>8<br>11<br>14 | 12, 684<br>96<br>727<br>506<br>3, 061<br>4, 676<br>842<br>703<br>1, 093<br>980 |

<sup>&</sup>lt;sup>1</sup> Exclusive of Yukon and the Northwest Territories.

## Deaths by cause, first quarter 1938

| Cause of death  | (first         | ada ¹<br>quar-<br>er) | Province                   |                |                       |               |                  |               |                        |                   |                          |
|---|----------------|-----------------------|----------------------------|----------------|-----------------------|---------------|------------------|---------------|------------------------|-------------------|--------------------------|
| Cause of destil   | 1937           | 1938                  | Prince<br>Edward<br>Island | Nova<br>Scotia | New<br>Bruns-<br>wick | Que-<br>bec   | Onta-<br>rio     | Mani-<br>toba | Sas-<br>katch-<br>ewan | Al-<br>ber-<br>ta | British<br>Colum-<br>bia |
| Automobile accidents. Cancer Cerebral hemorrhage, cerebral embolism | 225<br>2,942   | 230<br>2, 868         | 1<br>34                    | 12<br>159      | 13<br>100             | 32<br>793     | 118<br>1,080     | 8<br>176      | 2<br>140               | 15<br>158         | 29<br>228                |
| and thrombosis<br>Diarrhea and enteritis.                           | 562<br>395     | 542<br>456            | 6<br>2                     | 50<br>17       | 49<br>11              |               | 222<br>74        | 19<br>22      | 23<br>28               | 25<br>20          | 28<br>11                 |
| Diphtheria  | 76             | 120                   |                            | 7              | 8                     | 85            | 6                | 1             | 6                      | 6<br>108          | 1<br>184                 |
| Diseases of the arteries.   | 2,691<br>4,689 | 2,570<br>4,752        |                            | 163<br>255     | 87<br>192             | 478<br>1, 112 | 1, 261<br>1, 997 | 146<br>263    | 124<br>262             | 257               | 373                      |
| Homicides   | 40<br>3, 392   | 34<br>1, 053          | 5                          | 1<br>57        | 22                    | 9<br>449      | 13               | 2<br>62       | 4<br>55                | 5<br>87           | 45                       |
| Influenza<br>Measles  | 313            | 1,000                 |                            | 9              | 4                     | 40            | 8                | 1             | 8                      | 18                | 7                        |
| Nephritis   | 1,839          | 1,741                 | 13<br>55                   | 83<br>183      | 53<br>171             | 794<br>739    | 508<br>845       | 62<br>130     | 63<br>144              | 75<br>172         | 90<br>131                |
| Pneumonia<br>Poliomyelitis  | 2,876<br>9     | 2, 570<br>13          | 55                         | 183            | 1/1                   | 109           | 2                | 130           | 1                      | 2                 | 1                        |
| Puerperal causes  | 297            | 243                   | 2                          | 13             | 14                    | 99            | 63               | 8             | 11                     | 14<br>14          | 19                       |
| Scarlet feverSmallpox   | 86<br>1        | 78                    |                            | 3<br>1         |                       | 34<br>1       | 16               | 4             | 7                      | 14                |                          |
| Suicides  | 225            | 219                   |                            | ĝ              | 8                     | 33            | 89               | 13            | 15                     | 18                | 34                       |
| Tuberculosis  | 1,785          | 1, 521                | 16                         | 96             | 76                    | 666           | 300              | 76            | 76                     | 63                | 152                      |
| Typhoid fever and paratyphoid fever                                 | 42             | 62                    | 1                          | 2              | 3                     | 43            | 7                |               | 1                      | 2                 | 3                        |
| Violence  | 954            | 987                   | 1<br>5                     | 2<br>49        | 37                    | 232           | 396              | 51<br>398     | 45<br>464              | 76<br><b>46</b> 7 | 96<br>436                |
| Other specified causes.<br>Unspecified or ill-de-                   |                | 7, 889                | 87                         | 455            | 394                   | 2, 659        | 2, 529           | 298           | 204                    | 20/               | 230                      |
| fined causes  |                | 195                   | 7                          | 24             | 50                    |               | 16               | 6             | 9                      | 10                | 15                       |
| Whooping cough  | 195            | 155                   |                            | 3              |                       | 112           | 14               | 8             | 4                      | 4                 | 10                       |

<sup>1</sup> Exclusive of Yukon and the Northwest Territories.

## **GREAT BRITAIN**

England and Wales—Infectious diseases—13 weeks ended July 2, 1938.—During the 13 weeks ended July 2, 1938, cases of certain infectious diseases were reported in England and Wales, as follows:

| Disease  | Cases                               | Disease                          | Cases                         |  |
|--|-------------------------------------|----------------------------------|-------------------------------|--|
| Diphtheria.  Dysentery.  Ophthali is neonatorum.  Pneumonia. | 13, 128<br>653<br>1, 832<br>13, 177 | Puerperal pyrexia. Scarlet fever | 2, 405<br>24, 829<br>4<br>244 |  |

England and Wales—Vital statistics—Second quarter 1938.—During the second quarter ended June 30, 1938, 164,257 live births and 119,177 deaths were registered in England and Wales. The following statistics are taken from the Quarterly Return of Births, Deaths, and Marriages, issued by the Registrar General of England and Wales, and are provisional:

Birth and death rates in England and Wales, quarter ended June 30, 1938

| Annual rates per 1,000 population:                    |
|---|
| Live births 16. 10                                    |
| Stillbirths   |
| Deaths, all causes 11. 70                             |
| Deaths under 1 year of age148                         |
| Deaths from:  |
| Diarrhea and enteritis (under 2 years of age) 1 4. 40 |
| Diphtheria  |
| Influenza   |
| Measles06   |
| Scarlet fever   |
| Typhoid fever and paratyphoid fever                   |
| Violence  |
| Whooping cough  |

<sup>1</sup> Per 1,000 live births.

## IRISH FREE STATE

Vital statistics—Quarter ended June 30, 1938.—The following vital statistics for the Irish Free State for the quarter ended June 30, 1938, are taken from the Quarterly Return of Marriages, Births, and Deaths, issued by the Registrar General and are provisional:

|  | Number   | Rate per<br>1,000 pop-<br>ulation |                                  | Number                                  | Rate per<br>1,000 pop-<br>ulation |
|--|--|-----------------------------------|----------------------------------|---|-----------------------------------|
| Marriages Births Total deaths Deaths under 1 year of age Deaths from: Cancer Diarrhea and enteritis (under 2 years) Diphtheria | 3, 423<br>14, 642<br>9, 812<br>937<br>855<br>114<br>57 | 4.7<br>19.9<br>13.4<br>164<br>1.2 | Deaths from—Continued. Influenza | 137<br>30<br>13<br>27<br>874<br>7<br>56 | 0.2                               |

<sup>&</sup>lt;sup>1</sup> Per 1.000 live births.

#### **SWEDEN**

Notifiable diseases—July 1938.—During the month of July 1938, cases of certain notifiable diseases were reported in Sweden as follows:

| Disease  | Cases                           | Disease  | Cases                          |
|--|---------------------------------|--|--------------------------------|
| Cerebrospinal meningitis Diphtheria Dysentery. Epidemic encephalitis Gonorrhea Paratyphoid fever | 2<br>2<br>4<br>1<br>1,137<br>88 | Poliomyclitis. Scarlet fever. Syphilis. Typhold fever. Undulant fever. Well's disease. | 1 56<br>1,717<br>29<br>8<br>19 |

<sup>1</sup> Includes 4 cases nonparalytic at time of notification.

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

NOTE.—A table giving current information of the world prevalence of quarantinable diseases appeared in the Public Health Reports for September 30, 1938, pages 1759-1773. A similar cumulative table will appear in future issues of the Public Health Reports for the last Friday of each month.

#### Cholera

China.—During the week ended September 17, 1938, cholera was reported in China as follows: Canton, 7 cases; Hong Kong, 17 cases; Macao, 31 cases; Shanghai, 209 cases; Swatow, 17 cases.

Korea.—During the week ended September 17, 1938, 35 cases of cholera were reported in the districts of Daido and Irintsu, Korea.

## Plague

United States—New Mexico.—A report of plague infection in Catron County, New Mexico, appears on page 1806 of this issue of Public Health Reports.

## Typhus Fever

Libya—Garian.—For the week ended August 13, 1938, 1 case of typhus fever was reported in Garian, Libya.

## Yellow Fever

Nigeria—Degema.—On September 1, 1938, 1 fatal case of yellow fever was reported in Degema, Nigeria.