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RYTHM IN INDUSTRY.¹

By A. H. RYAN, Associate Physiologist, and P. S. FLORENCE, Associate Sanitarian, United States Public Health Service.

Rythmical movements, such as those occurring in machine operations, are characterized externally by an approximately uniform repetition. The time interval between operations or various steps in operations can be measured, and such measurements may be used as an index of the rythm. A method was devised of fitting up the machine to be studied with electrical contacts so that each step in the operation could be recorded automatically. Chronometer records were obtained simultaneously, and by means of a signal magnet records were also made of any variations in the work or working conditions.

We have chosen the median speed of a series of operations as that more nearly representing the typical speed. From this the average deviation was obtained, and this divided by the median gives the percentage deviation from the median, or the coefficient of dispersion. The smaller this coefficient, the more rythmical the operation or operator.

In a simple movement, such as tapping, the coefficient of dispersion on two subjects was 2.40 per cent and 2.54 per cent. In the facing and scoring fuse ring (hand-screw-machine type) the coefficient in one operator was as low as 2.74 per cent. In the inexperienced worker the coefficient was as high as 8.34 per cent. In five operators on this machine the best operators gave the lowest coefficients. In 45 series of observations on the same worker, covering 2,648 operations, the coefficient was 4.22 per cent. In beveling (also a hand-screw-machine operation) the coefficient was likewise low. In the foot-press type of operation the coefficient was considerably higher, indicating less rythm.

The fatigue of the day did not seem to lessen the rythm of the operation. Distraction, such as counting the ringing of a bell, did not seem to interfere with the rythm. A curve expressing the correlation of

¹ Abstract of a paper presented at the meeting of the Federation of American Biological Societies at the Johns Hopkins Medical School, Baltimore, Md., April 25, 1919.

speed and rhythm indicates that there is an optimum speed for rhythm and that the rhythm is more irregular at either a slower or faster speed.

The possible importance of rhythm in industry and occupational fatigue may be briefly summarized as follows:

- (1) In relieving attention and its consequent fatigue.
- (2) In rendering more uniform the metabolism and recovery involved in the operation by evenly distributing the work.
- (3) In masking fatigue effects. Here the output curve may be maintained in spite of fatigue.
- (4) In increasing or decreasing accident hazard according to the type of accident causation.

MUSCULAR TONUS IN RELATION TO FATIGUE.¹

By A. H. RYAN, Associate Physiologist, United States Public Health Service, and SARA JORDAN, in collaboration with A. B. YATES, Tufts Medical School, Scientific Assistant, United States Public Health Service.

Muscular tonus in relation to fatigue was investigated in the hope of finding further methods for the detection of the more pronounced degrees of fatigue resulting from the day's work at different occupations and from the working day of different lengths, and for the purpose of studying cumulative fatigue. There is presented here a preliminary report of the results.

Among the methods devised by us was that of determining at different times the amount of tension required to produce a given amount of extension of a group of muscles. Present results are based on observations made upon the pectorals and the soleus-gastrocnemius group.

For the pectoral measurement the subject was placed in a standing position in an apparatus with his back resting against a support; the arms were elevated to the horizontal position and supported in metal slings suspended from the ceiling. One arm was fixed to an immovable standard while the other was pulled backward a constant distance by means of a cord and pulley. A delicate spring balance was inserted between the cord and the arm sling. A rigid graduated arc below the arm made it possible to achieve a constant extension at the different observations.

In testing the soleus-gastrocnemius group the subject either sat or reclined on a table. The apparatus consisted of an upright board hinged to a horizontal board which was clamped to the table. The foot was fastened to the upright board and the axis of rotation about the hinge passed through the ankle. A handle with spring and scale attached made it possible to apply pressure in such a manner that

¹ Abstract of a paper presented at the meeting of the Federation of American Biological Societies at the Johns Hopkins Medical School, Baltimore, Md., Apr. 25, 1919.

the soleus-gastrocnemius group was extended, and to observe the degree of extension and pressure. The amount of tension required to produce a given degree of extension at the various times of observation was taken as the index of muscle tonus. A history was kept of sleep, work, rest, etc.

In subjects doing relatively strenuous work during the day, or where long hours were being spent in work, there was usually a decrease in the tonus in the evening as compared with the morning condition. This was more pronounced when the subject was losing rest (sleep). After lost rest the morning tonus was lower and the average tonus for the day was less than on days following a good night's sleep. Evidence was thus obtained of cumulative fatigue effects. Sleep at night or during the day was usually followed by a considerable increase in tonus. Strenuous work of short duration was usually followed by an immediate decrease in tonus. Psychic influences (excitement) seemed occasionally to produce an increase in tonus, although fatigue-producing conditions were recorded in the history. In subjects doing relatively light work and obtaining plenty of sleep the tonus varied during the day, the evening tonus being frequently greater than that observed in the morning.

VENEREAL DISEASES.

NEBRASKA SUPREME COURT DECIDES THAT LOCAL HEALTH AUTHORITIES CAN QUARANTINE INFECTED PERSONS.

The Supreme Court of Nebraska, in a recent case,¹ upholds the right of local health authorities to quarantine a person infected with a venereal disease.

A woman was arrested and upon examination was found to be infected with a venereal disease. The health commissioner of Omaha ordered her to be detained in the detention home of the city for treatment until there was no further danger of communicating the disease. In a habeas corpus proceeding to secure her release from quarantine the court upheld the action of the health commissioner and denied the writ. In the opinion it was said:

* * * In this case the stipulation shows that the petitioner was "found to be infected with communicable venereal virus," and that she was only detained "for such reasonable time and in such reasonable manner as to prevent the danger of said petitioner from communicating such infection to others and until the danger of the infection should be removed." There can be no doubt that under our statute (Rev. St. 1913, secs. 4082, 4094) the city could by ordinance provide for such detention, and the ordinance as quoted in the petitioner's brief provides for such detention.

¹ Ex parte Brown, 172 N. W., 522.

INFLUENZA IN INDIA, 1918.

The following account has been taken from a preliminary report addressed in February, 1919, to the Government of India on the epidemic of influenza in India in 1918, by Maj. Norman White, High Sanitary Commissioner, quoted in the Bulletin of the International Office of Public Hygiene, Paris, May, 1919, pages 471-490.

In June, 1918, unusual causes of sickness began to be observed in India. At Bombay disabling sickness was noted, occurring chiefly among employees and mill workers. Sporadic cases were observed at Calcutta about the middle of June and at Madras about the end of that month. Previous infection from influenza in India appears to be indicated by the reported occurrence of a disease resembling influenza in the district of Tana, presidency of Bombay, early in the year 1918. It was noted, however, that the first ascertained cases of influenza at Bombay city occurred on a transport arrived in May from Mesopotamia. These cases occurred on the vessel at dock. There had been no occurrence of the disease en route to Bombay, and the vessel had complete communication with the city of Bombay. Influenza occurred at Karachi, and in July the infection appeared to be generally diffused in the Punjab and the United Provinces. Reports of the appearance of the epidemic among troops were received in July from Maymyo, Karachi, Lansdowne, Jubbelpore, Abottabad, Kwandwa, Fort Lockhart, Quetta, Dehra, Dun, Muttra, and Chakrata. In spite of the dissemination of the disease during the months of July and August, no appreciable augmentation of mortality was observed, but toward the end of September mortality began to rise alarmingly at Bombay and on October 6 attained the total of 768 deaths. A second virulent epidemic prevalence was later observed in other parts of India. The epidemic reached its greatest intensity in the central, northern, and western parts of the Indian Empire. In comparison with these regions the Provinces of Bengal, Burma, Bihar and Orissa, Madras, and Assam were only slightly attacked. There was a gradual diminution of intensity toward the east.

Statistics of mortality due to influenza in British India have been calculated by deducting from the total for the period studied in the year 1918 the figures representing the total for the corresponding period of a normal year, taking into account the coexistence of other epidemic diseases. But for influenza the second half of the year 1918 would appear to have been abnormally free from epidemic diseases. The epidemic of plague then present was the most benign since 1898, and the malarial incidence was below normal.

The table here presented gives the estimated mortality for the Provinces of British India directly or indirectly attributable to

influenza. Only deaths occurring previous to November 30 are included, the greatest number of these deaths having occurred during the months of October and November. On November 30, 1918, the epidemic was everywhere on the decline, and in most parts of the country mortality had become normal.

Province.	Population (census of 1911).	Estimated number of deaths from influenza.	Influenza deaths per 1,000 population.
Ajmere-Merwara.....	501,395	33,407	66.6
Central Provinces and Berar.....	13,916,308	790,820	56.8
Delhi.....	416,656	23,175	55.6
Bombay.....	19,587,383	900,000	45.9
Punjab.....	19,337,146	816,317	42.2
Northwestern Frontier.....	2,041,077	82,000	40.0
United Provinces.....	46,820,506	1,072,671	22.9
Coorg.....	174,976	3,382	19.0
Madras.....	40,005,735	509,667	12.7
Assam.....	6,051,507	69,113	11.4
Bihar and Orissa.....	34,489,846	359,482	10.3
Burma.....	9,885,853	60,000	6.0
Bengal.....	45,329,247	213,093	4.7
Total for British India.....	238,527,635	4,933,132	20.7

As regards the incidence of influenza in the native States, the data available are very vague except for Mysore. The total number of deaths in Mysore State attributable to influenza in 1918 was 127,651, equivalent to a mortality of 22.37 per 1,000. The epidemic was very severe in all the Central States of India. Complete reports have not been received, but the official physician of Central India asserts that the total mortality from influenza in Central India was not less than 6 per cent of the population, which numbers nearly 9,000,000. In the Bikanir the mortality due to influenza in October and November, 1918, was estimated at 61,211 deaths in a population of 683,320 (89.5 per 1,000). In the city of Udaipur, State of Udaipur, 1,475 persons (44.7 per 1,000) died of influenza in less than six weeks. In the dominions of the Nizam and Hyderabad the number of deaths was not far from 350,000 (27 per 1,000).

As regards influenza among troops serving in India the prevalence of the disease is stated to have been more considerable among British soldiers than among Hindu soldiers, while the mortality among the Hindu troops was much greater. Admissions to hospital were for British troops, 218.2 per 1,000 of the effective force for influenza, and 3.1 for pneumonia; for the Hindu troops the figures were 135.6 and 20.2. The proportion of deaths among British troops was 8.96 for influenza and 0.65 for pneumonia; for the Hindus the proportion was, respectively, 15.21 and 6.48. The normal occurrence of pneumonia among Hindu troops is stated to be almost four times greater than among British troops.

STATE AND INSULAR HEALTH AUTHORITIES, 1919.

DIRECTORY, WITH DATA AS TO APPROPRIATIONS AND PUBLICATIONS.

Directories of the State and insular health authorities of the United States for each year from 1912 to 1918 have been published in the Public Health Reports¹ for the information of health officers and others interested in public-health activities. These directories have been compiled from data furnished by the respective State and insular health officers and include data as to appropriations and publications.

Where an officer has been reported to be a "full-time" health officer, that fact is indicated by a footnote. For this purpose a "full-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."

ALABAMA.

Boards of censors of the State medical association acting as a committee of public health:

- S. W. Welch, M. D., chairman, Montgomery.
- W. D. Partlow, M. D., Tuscaloosa.
- J. N. Baker, M. D., Montgomery.
- V. P. Gaines, M. D., Mobile.
- S. G. Gay, M. D., Selma.
- L. W. Johnston, M. D., Tuskegee.
- C. A. Mohr, M. D., Mobile.
- D. F. Talley, M. D., Birmingham.
- R. S. Hill, M. D., Montgomery.
- B. L. Wyman, M. D., Birmingham.

Executive health officer:

- S. W. Welch, M. D., State health officer, Montgomery.

Registrar of vital statistics:

- H. G. Perry, M. D., Montgomery.

State laboratory:

- P. P. Salter, M. D., Montgomery.

Sanitary engineer:

- G. H. Hazelhurst, C. E., Montgomery.

Rural sanitation:

- Wm. S. Keister, M. D.
- H. M. Weedon, M. D.
- C. L. Murphree, M. D.
- R. M. Kimbrough, M. D.

State prison inspector:

- Glenn Andrews, M. D., Montgomery.

Bureau of nursing:

- Jessie L. Marriner, chief.

Venereal-disease control work:

- W. C. Blasingame, director.

Field lecturer:

- Rev. A. J. Dickinson.

Secretary:

- Fannie Kate Centerfit.

Chief clerk:

- Bertha Perry.

Appropriation (exclusive of State prison inspector) for fiscal year ending September 30, 1919, \$26,200.

ALASKA.

Commissioner of health:

- L. O. Sloane, M. D., Juneau.

Assistant commissioners of health:

- W. W. Council, M. D., Cordova.
- J. A. Sutherland, M. D., Fairbanks.
- D. S. Neuman, M. D., Nome.

Appropriation for biennium ending March 31, 1921, \$50,000.

ARIZONA.

Board of health:

- Thomas E. Campbell, governor, president, Phoenix.

- Wiley E. Jones, attorney general, vice president, Phoenix.

- George E. Goodrich, secretary, Phoenix.

Executive health officer:

- George E. Goodrich, M. D., State superintendent of public health, Phoenix.

Appropriations for the fiscal year ending June 30, 1920:

Salary superintendent of health.....	\$1,000
Salary registrar of vital statistics.....	1,000
Office expenses.....	2,000
Venereal-disease control work.....	2,250
Tuberculosis, child welfare, and public health nurses.....	5,000
Rural sanitation work.....	2,250
Bulletin and other literature.....	2,200
Public health lectures and educational work.....	1,000
Salary of clerical force.....	3,000
	19,700

Publications issued by health department:

- Quarterly bulletin.
- Biennial report.

ARKANSAS.

Board of health:

- H. L. Montgomery, M. D., president, Gravelly.
- H. R. Webster, M. D., Texarkana.
- C. M. Lutterloh, M. D., Jonesboro.

¹ Reprints Nos. 83, 123, 190, 268, 344, 405, and 488 from the Public Health Reports.

ARKANSAS—Continued.

Board of health—Continued.

C. F. Crosby, M. D., Heber Springs.
J. T. Clegg, M. D., Siloam Springs.
S. A. Southall, M. D., Lonoke.
F. O. Mahony, M. D., El Dorado.

Executive health officer:

C. W. Garrison, M. D., State health officer,
Little Rock.

Bureau of vital statistics:

Mary Ellis Brown, statistician, Little Rock.

Hygienic laboratory:

M. King, M. D., acting director, Little Rock.

Chief hotel inspector:

E. R. Wiles, Little Rock.

Sanitary engineer:

Appropriations for biennial period ending Mar. 31,
1921:

Executive department—salaries and miscellaneous.....	\$12,000
Vital statistics bureau—salaries and miscellaneous.....	22,425
Bureau of sanitation—maintenance....	18,410
Bureau of venereal-disease control.....	25,000
	77,835

Other sources of revenue:

Fees for marriage licenses, 50 cents each, are
deposited in the State treasury to maintain
the central bureau of vital statistics.

License fees for hotels, restaurants, and rooming
houses are deposited in the State treasury to
maintain the bureau of sanitation.

CALIFORNIA.

Board of health:

George E. Ebright, M. D., president, San
Francisco.

Fred F. Gundrum, M. D., vice president,
Sacramento.

Willfred H. Kellogg, M. D., secretary, Sacra-
mento.

Wm. Le Moyne Wills, M. D., Los Angeles.

Edward F. Glaser, M. D., San Francisco.

Adelaide Brown, M. D., San Francisco.

Robert A. Beers, M. D., Colfax.

Executive health officer:

¹Willfred H. Kellogg, M. D., secretary State
board of health, Sacramento.

Attorney for board of health:

John C. MacFarland, Los Angeles.

Bureau of administration:

¹Guy P. Jones, director, Sacramento.

Bureau of vital statistics:

¹George D. Leslie, director, Sacramento.

Bureau of registration of nurses:

¹Anna C. Jamme, R. N., director, Sacramento.

Bureau of tuberculosis:

¹Edith L. M. Tate Thompson, director, Sacra-
mento.

Bureau of food and drugs:

¹Erwin J. Lea, director, Berkeley.

Bureau of communicable diseases:

¹Frank L. Kelly, M. D., acting director,
Berkeley.

CALIFORNIA—Continued.

Bureau of social hygiene:

W. H. Kellogg, M. D., acting director, San
Francisco.

Bureau of sanitary engineering:

¹Chester G. Gillespie, director, Berkeley.

Appropriations for biennial period ending June
30, 1921:

Traveling and contingent expenses....	\$42,000
Tuberculosis control work.....	200,000
Pure food and drugs.....	65,000
Hygienic laboratory and intralab virus	50,000
Stenographic services.....	2,400
Printing.....	8,000
Contagious diseases.....	55,000
Sanitary engineering.....	50,000
Statutory salaries (from general appro- priation).....	47,800
Support of 6 district health officers, at \$3,000, expenses, etc.....	25,000
Venereal-disease control work.....	51,600
Child hygiene.....	20,000
	616,800

Other sources of revenue:

Fees for registration of nurses (\$10 each).

Licensing of cold-storage warehouses (rated
according to capacity).

Fees for certified copies of records.

Licensing plumbers, \$2.50 each original exam-
ination.

Fiscal year ends June 30.

Publications issued by health department:

Biennial report.

Monthly bulletin.

COLORADO.

Board of health:

Clinton G. Hickey, M. D., president, Denver.

Frank R. Coffman, M. D., vice president, Den-
ver.

Sherman Williams, M. D., Denver.

Wm. H. Sharpley, M. D., Denver.

G. W. Bumpus, D. O., Denver.

C. W. Thompson, M. D., Pueblo.

Hugh F. Lorimer, M. D., Pueblo.

R. L. Drinkwater, M. D., Denver.

A. C. McCain, M. D., Ault.

Executive health officer:

Clinton G. Hickey, M. D., temporary secretary
State board of health, Denver.

Bacteriologist:

W. C. Mitchell, M. D., Denver.

Medical inspector:

¹J. W. Morgan, M. D., Denver.

State food and drug commissioner:

¹Wilber F. Cannon, Denver.

Division of venereal diseases:

¹S. R. McKelvey, M. D., director, Denver.

B. F. Matthews, M. D., bacteriologist, Denver.

Appropriations for fiscal year ending Nov. 30, 1919:

Salaries.....	\$23,700
Laboratory equipment.....	750
Printing and publications.....	500
Traveling expenses.....	2,400
Incidental expenses.....	1,000
	28,350

¹ Full-time officer.

CONNECTICUT.

Public health council:

Edward K. Root, M. D.
 Lewis Sperry, LL. B.
 C.-E. A. Winslow, D. P. H.
 Walter H. Brown, M. D.
 Robert A. Cairns, C. E.
 James A. Newlands, B. S.

Executive health officer:

¹John T. Black, M. D., commissioner of health,
 Hartford.

Laboratory director:

C. J. Bartlett, M. D.

Sanitary engineering:

J. Frederick Jackson, C. E., director.

Preventable diseases:

¹T. E. Reeks, M. D., director.

Vital statistics:

¹James P. Balfe, director.

Child hygiene:

¹Margaret K. Stack, R. N., director.

Appropriations for fiscal year ending June 30, 1920:

General administrative expenses.....	\$13,000
Salary—commissioner.....	4,000
Purchase and free distribution of anti- toxin.....	10,000
Preventable diseases.....	11,000
Vital statistics.....	10,000
Sanitary engineering.....	10,000
Laboratory.....	20,000
Child hygiene.....	12,500
Industrial wastes.....	25,000
Veneral-disease control work.....	12,000

127,500

Special for laboratory construction..... 100,000

227,500

Other sources of revenue:

Medical practice, registration fees.
 Spring water, license fees.

Publications issued by health department:

Monthly bulletin.
 Annual vital statistic report.
 Biennial report of State department of health.

DELAWARE.

Board of health:

Wm. P. Orr, M. D., president, Lewes.
 L. S. Conwell, M. D., secretary, Dover.
 J. W. Clifton, M. D., Smyrna.
 W. F. Haines, M. D., Seaford.
 C. A. Ritchie, M. D., Wilmington.
 G. W. K. Forrest, M. D., Wilmington.
 Edgar Q. Bullock, M. D., Wilmington.

Executive health officer:

L. S. Conwell, M. D., secretary State board of
 health, Dover.

Commissioner of health:

¹Chester H. Wells, S. B.

Pathologist and bacteriologist:

Herbert J. Watson, Newark.

Appropriations for the fiscal year ending

Jan. 5, 1920:

State board of health.....	\$6,000
Laboratory.....	10,000
Vital statistics.....	2,000
Diphtheria antitoxin.....	500
Veneral-disease control work.....	2,500

21,000

DISTRICT OF COLUMBIA.

Executive health officer:

Wm. C. Fowler, M. D., health officer, Wash-
 ington.

Assistant health officer:

John L. Norris, M. D., Washington.

Chief clerk and deputy health officer:

Arthur G. Cole, Washington.

Chief, bureau of preventable diseases and director
 bacteriological laboratory:

J. Paul Frey, M. D., Washington.

Bacteriologist:

L. V. Dieter, Phar. D., Washington.

Serologist:

W. F. Landon, B. S., Washington.

Chemist:

M. A. Pozen, B. S., Phar. D., Washington.

Chief sanitary inspector:

C. R. Holman, Washington.

Chief food inspector:

Reid R. Ashworth, D. V. S., Washington.

Chief medical and sanitary inspector of schools:

Joseph A. Murphy, M. D., Washington.

Appropriations for fiscal year ending June 30, 1920:

Salaries.....	\$94,290
Prevention of communicable diseases.....	45,000
Disinfecting service.....	7,000
Isolation wards at hospitals.....	16,500
Milk and food inspection and regulation.....	8,500
Dispensary service including treatment of tuberculosis and venereal diseases.....	12,500
Medical examination of school children.....	15,000
Miscellaneous.....	11,200

209,990

Publications issued by health department:

Weekly report by health department.
 Annual report of health officer.
 Monthly statement of average grade of milk
 sold.

FLORIDA.

Board of health:

Charles T. Frecker, president, Tampa.
 Ed. M. Earnest, Palatka.
 J. E. Graves, De Funiak Springs.

Executive health officer:

V. H. Gwinn, acting State health officer,
 Jacksonville.

Assistant State health officer:

¹V. H. Gwinn, M. D.

Bureau of vital statistics:

¹Stuart G. Thompson, M. D., statistician, Jack-
 sonville.

Bureau of sanitary engineering:

¹George W. Simons, jr., chief, Jacksonville.

Bureau of laboratories:

¹B. I. Arms, M. D., chief, Jacksonville.

Bureau of venereal diseases:

¹H. O. Snow, M. D.

Appropriation for health department:

One-half mill tax levied upon the assessable
 property of the State.

Fiscal year ends Dec. 31.

Publications issued by health department:

Quarterly bulletin.
 Weekly press service.

¹Full-time officer.

GEORGIA.**Board of health:**

W. H. Doughty, jr., M. D., president, Augusta.
James H. McDuffie, M. D., vice president,
Columbus.

T. F. Abercromble, M. D., secretary, Atlanta.
Chas. H. Richardson, M. D., Macon.

A. D. Little, M. D., Thomasville.

John W. Daniel, M. D., Savannah.

B. C. Teasley, M. D., Hartwell.

A. L. Crittenden, M. D., Shellman.

Robert F. Maddox, Atlanta.

A. C. Shamblin, M. D., Rome.

J. C. Verner, M. D., Commerce.

J. L. Walker, M. D., Waycross.

M. S. Brown, M. D., Fort Valley.

M. L. Brittain, State superintendent of schools,
Atlanta.

Peter F. Bahnsen, State veterinarian, Atlanta.

Executive health officer:

T. F. Abercromble, M. D., secretary State
board of health, Atlanta.

Division of bacteriology:

T. F. Sellers, M. Sc., director, Atlanta.

Division of water analysis:

Ray C. Werner, B. S., director, Atlanta.

Division of tuberculosis (Raoul Foundation):

J. P. Faulkner, director, Atlanta.

Appropriations for fiscal year ending Dec. 31, 1919:

General appropriation \$60,000

State Tuberculosis Sanatorium 42,000

Raoul Foundation for tuberculosis con-
trol..... 30,000

132,000

Publication issued by the health department:

Monthly bulletin.

HAWAII**Board of health:**

S. S. Paxson, president and executive officer,
Honolulu.

Harry Irwin, attorney general, Honolulu.

W. C. Hobdy, M. D., Honolulu.

F. E. Trotter, M. D., Honolulu.

Walter Macfarlane, Honolulu.

G. L. Waller, jr., Honolulu.

George Denison, Honolulu.

Executive health officer:

S. S. Paxson, president of the board of health,
Honolulu.

Bacteriologist:

A. N. Sinclair, M. D., Honolulu.

Tuberculosis bureau:

Ruth Alexander McKellar, M. D., director,
Honolulu.

Health officer:

J. T. Wayson, M. D., Honolulu.

Food commissioner and analyst:

M. B. Bairos, Honolulu.

Oahu insane asylum:

W. A. Schwallic, M. D., superintendent,
Honolulu.

Leper settlement:

J. D. McVeigh, superintendent, Kalaupapa,
Molokai.

¹ Full-time officer.

HAWAII—Continued.**Leper settlement—Continued.**

W. J. Goodhue, M. D., medical superintendent,
Kalaupapa, Molokai.

Appropriations for the biennial period ending June 30, 1921:

General expenses \$31,200

Sanitation 66,600

Pure food 26,200

Bacteriological bureau 12,840

Quarantine and medical service 55,800

Rat campaign 24,000

Mosquito campaign 4,800

Tuberculosis 238,200

Care of lepers and their children 363,550

Care of the insane 166,360

989,550

Publication issued by health department:

Annual report of president.

IDAHO.**Department of public welfare:**

¹ J. K. White, commissioner.

¹ E. E. Laubaugh, M. D., medical adviser.

¹ Emily L. Moshage, M. D., bacteriologist.

¹ Edw. F. Rhodenbaugh, chemist.

Executive health officer:

¹ J. K. White, commissioner, department of
public welfare, Boise.

Appropriations for fiscal year ending Jan. 1, 1921:

Board of health \$10,300

Bureau of child welfare 3,800

Bacteriological laboratory 7,150

Chemical laboratory 7,050

Dairy, food, and sanitary inspection.... 30,000

Tuberculosis hospitals (estimated)..... 140,000

198,300

ILLINOIS.**Director of public health:**

C. St. Clair Drake, M. D., Springfield.

Assistant director of public health:

George Thomas Palmer, M. D.

Division of sanitation:

Paul Hansen, C. E., chief sanitary engineer.

Division of communicable diseases:

J. J. McShane, M. D., chief.

Division of child hygiene and public health nursing:

C. W. East, M. D., chief.

Division of tuberculosis:

George Thomas Palmer, M. D., acting chief.

Division of diagnostic laboratory:

George F. Sorgatz, M. D., chief bacteriologist.²

Division of biologic and research laboratories:

Martin Dupray, B. S., chief of laboratories.

Division of vital statistics:

Sheldon L. Howard, registrar.

Divisions of surveys and rural hygiene:

Paul L. Skoog, supervisor.

Division of public health instruction:

Earl Searey, editor.

Division of social hygiene:

G. G. Taylor, M. D., chief.

Division of hotel and lodging house inspection:

W. W. McCulloch, superintendent.

² Absent on military service.

ILLINOIS—Continued.

Appropriations for fiscal year ending June 30, 1920:

Salaries.....	\$177,120
Office expenses.....	34,300
Traveling expenses.....	47,900
Operating, supplies and expenses.....	57,545
Repairs.....	3,600
Equipment.....	9,610
Contingent.....	13,700
	343,775

Publication issued by health department:
Illinois Health News. (Monthly.)

INDIANA.¹

Board of health:

- Hugh A. Cowing, M. D., president, Muncie.
- John H. Hewitt, M. D., vice president, Terre Haute.
- James S. Boyers, M. D., Decatur.
- Chas. B. Kern, M. D., La Fayette.
- J. N. Hurty, M. D., secretary, Indianapolis.

Executive health officer:

- ²J. N. Hurty, M. D., State health commissioner, Indianapolis.

Assistant State health commissioner:

- ²Wm. F. King, M. D., Indianapolis.

Division of statistics:

- ²H. M. Wright, superintendent, Indianapolis.

Laboratory of hygiene:

- ²Wm. Shimer, M. D., superintendent, Indianapolis.

Pasteur laboratory:

- ²J. C. Nicodemus, M. D., director, Indianapolis.

Division of food and drugs:

- H. E. Barnard, Ph. D., State food and drug commissioner, Indianapolis.

Water and sewage laboratory:

- ²L. R. Taylor, A. B., superintendent, Indianapolis.

Division of child and school hygiene:

- ²Ada E. Schweitzer, M. D., director, Indianapolis.

Division of epidemiology:

- ²Wm. Shimer, M. D., director, Indianapolis.

Bureau of venereal diseases:

- ²Wm. F. King, M. D., director, Indianapolis.

Division of inspection:

- ²E. C. Helwig, M. D., chief, Indianapolis.

Appropriations for the fiscal year ending Sept. 30, 1920:

Salaries (specific).....	\$3,000.00
State board of health office.....	30,000.00
Laboratory of hygiene.....	12,000.00
Laboratory of water and pure food and drugs.....	25,000.00
Weights and measures.....	10,000.00
Cold-storage fund.....	450.00
Hydrophobia fund.....	12,000.00
Baby book.....	5,000.00
Division of tuberculosis.....	10,000.00
Division of infant and child hygiene.....	10,000.00
Division of venereal diseases.....	29,366.20
Division of rural hygiene.....	25,000.00
	171,816.20

Publication issued by health department:
Monthly bulletin.

¹ Provision has been made for a division of tuberculosis and a division of rural hygiene, which will be organized by Oct. 1, 1919.

² Full-time officer.

IOWA.

Board of health:

- Walter L. Bierring, M. D., president, Des Moines.
- G. F. Severs, M. D., vice president, Centerville.
- ²Lafayette Higgins, sanitary engineer, Des Moines.
- Frank T. Launder, M. D., Garwin.
- C. S. Grant, M. D., Iowa City.
- W. L. Harding, governor, Des Moines.
- W. C. Ramsey, secretary of state, Des Moines.
- F. S. Shaw, auditor of state, Des Moines.
- E. H. Hoyt, treasurer of state, Des Moines.

Secretary appointing board and executive council:
R. E. Bales, Des Moines.

Executive health officer:

- ²Gulford H. Sumner, M. D., State health commissioner, Des Moines.

Assistant secretary:

- ²H. W. Grefe, Des Moines.

Chief clerk:

- ²L. V. Clemens, Des Moines.

Laboratories:

- ²Henry Albert, M. D., director, Iowa City.
- ²John H. Hamilton, M. D., epidemiologist, Iowa City.

Appropriations for fiscal year ending June 30, 1920:

State board of health work.....	\$15,000
Bacteriological laboratory.....	8,000
Antitoxin department.....	2,000
Vital statistics.....	3,000
Salaries of employees.....	5,400
Social hygiene.....	15,000
	48,400

The above does not include special appropriation for clerical assistance.

Publications issued by health department:

- Biennial report.
- Quarterly bulletin.

KANSAS.

Board of health:

- J. T. Axtell, M. D., president, Newton.
- O. D. Walker, M. D., vice president, Salina.
- W. M. Earnest, M. D., Washington.
- C. H. Ewing, M. D., Larned.
- H. L. Aldrich, M. D., Caney.
- O. C. Baird, M. D., Chanute.
- Clay E. Coburn, M. D., Kansas City.
- C. H. Lerrigo, M. D., Topeka.
- Jesse T. Orr, M. D., Olathe.

Executive health officer:

- ²S. J. Crumbine, M. D., secretary State board of health, Topeka.

Division of vital statistics:

- Chas. H. Lerrigo, M. D., State registrar, Topeka.

Division of communicable diseases and sanitation:

- T. D. Tuttle, M. D. U. S. P. H. S. (Reserve), epidemiologist.

Division of foods and drugs:

- Frank Rowland, assistant chief food and drug inspector, Topeka.

KANSAS—Continued.

Division of child hygiene:
Florence Brown Sherbon, M. D., chief, Topeka.

Division of water and sewage:
Prof. C. A. Haskins, chief, Lawrence.

Division of public health education:
S. J. Crumbine, M. D., director, Topeka.

Division of venereal diseases:
**B. K. Kilbourne, M. D., U. S. P. H. S. (Re-
 serve), director, Topeka.**

**Water and sewage laboratories at Kansas Uni-
 versity:**
Prof. C. A. Haskins, director, Lawrence.

Food laboratory at Kansas University:
**Prof. E. H. S. Bailey, director of food analyses,
 Lawrence.**

Drug laboratory at Kansas University:
**Prof. L. E. Sayre, director of drug analyses,
 Lawrence.**

Food laboratory at Kansas Agricultural College:
**Prof. Wm. King, director of food analyses,
 Manhattan.**

Bacteriologist:
S. E. Greenfield, M. D., Topeka.

Appropriations for fiscal year ending June 30, 1920:

Salaries.....	\$23,700
Miscellaneous.....	8,000
Water and sewage division.....	5,000
Free distribution of antitoxins, etc.....	2,500
Suppression of communicable diseases.....	10,000
Public health exhibit car.....	3,000
Laboratory of hygiene.....	1,500
Division of child hygiene.....	7,500
Division of food and drugs.....	7,500
	<hr/>
	68,700

Other sources of revenue:

Marriage fees, approximately, \$10,000.

**Water and ice analyses fees, approximately,
 \$14,000.**

**Food and drug laboratories at Kansas Univer-
 sity maintained by university maintenance
 fund, and food laboratory at Kansas Agri-
 cultural College maintained by agricultural
 college maintenance fund.**

Publications issued by health department:
Monthly bulletin.
Biennial report.

KENTUCKY.

Board of health:
John G. South, M. D., president, Frankfort.
W. W. Richmond, M. D., Clinton.
George T. Fuller, M. D., Mayfield.
H. H. Carter, D. O., Shelbyville.
I. A. Shirley, M. D., Winchester.
Joseph E. Wells, M. D., Cynthiana.
George S. Coon, M. D., Louisville.
A. T. McCormack, M. D., secretary, Louisville.

Executive health officer:
**A. T. McCormack, M. D., secretary State
 board of health, Louisville.**

Bureau of sanitation:
J. N. McCormack, M. D., director, Louisville.

Bureau of vital statistics:
P. E. Blackerby, M. D., director, Louisville.

KENTUCKY—Continued.

Bureau of bacteriology:
Lillian H. South, M. D., director, Louisville.

Bureau of pure food and drugs:
J. G. Furnish, director, Louisville.

Bureau of hotels and restaurants:
E. B. Weitzel, director, Louisville.

Bureau for venereal diseases:
Leon L. Solomon, M. D., director, Louisville.

Bureau of tuberculosis:
**Milton Board, M. D., associate director, Bowl-
 ing Green.**

Division of nurses:
Mrs. Lafon Riker, chief, Harrodsburg.
**Marian Williamson, State supervisor, Louis-
 ville.**

Division of child welfare:
George L. Sehon, chief, Louisville.

Division for conservation of vision:
Linda Neville, chief, Lexington.

**Appropriation for fiscal year ending June 30, 1920,
 \$130,000.**

Publications issued by the health department:
Monthly bulletin.

LOUISIANA.

Board of health:
Oscar Dowling, M. D., president, New Orleans.
J. M. Mosely, M. D., Arcadia.
T. T. Tariton, M. D., Grand Coteau.
L. C. Chamberlain, M. D., New Orleans.
J. T. Abshire, M. D., Kaplan.
T. A. Roy, M. D., Mansura.
B. A. Ledbetter, M. D., New Orleans.
M. W. Swords, M. D., secretary, New Orleans.

Executive health officer:
**Oscar Dowling, M. D., president State board
 of health, New Orleans.**

Bacteriologist:
W. H. Seemann, M. D., New Orleans.

Registrar:
John H. Ellis, M. D., New Orleans.

Sanitary engineer:
John H. O'Neill, New Orleans.

Child hygiene:
Agnes Morris, New Orleans.

Analyst:
C. L. Clay, New Orleans.

Chemists:
J. Roy Keeny, New Orleans.
Leonard C. Scott, M. D., New Orleans.

Bureau of venereal diseases:
**Wm. Edler, M. D., U. S. P. H. S., director, New
 Orleans.**

Appropriations for fiscal year ending June 30, 1920:

Isolation hospital at Alexandria.....	\$10,000
General.....	50,000
	<hr/>
	60,000

Other source of revenue:
Fees from inspection of oil.

Publications issued by health department:
Monthly bulletin.
Quarterly bulletin.
Annual almanac.
Biennial report.
Miscellaneous leaflets.

MAINE

Public health council:
Leverett D. Bristol, M. D., Dr. P. H., chairman,
 Augusta.

S. J. Beach, M. D., Augusta.
Hiram W. Ricker, South Poland.
R. D. Small, M. D., Portland.
J. Q. Guinac, Bangor.

Executive health officer:
¹**Leverett D. Bristol, M. D., Dr. P. H.,** State
 commissioner of health, Augusta.

Division of administration:
¹**Leverett D. Bristol, M. D., Dr. P. H.,** director,
 Augusta.

Division of communicable diseases:
¹**A. G. Young, M. D.,** director, Augusta.

Division of diagnostic laboratories:
¹**H. E. Thompson, M. D.,** director, Augusta.

Division of sanitary engineering:
¹**H. D. Evans, M. A.,** director, Augusta.

Division of public health education and publicity:
¹ ———, director, Augusta.

Division of vital statistics:
¹**Leverett D. Bristol, M. D., Dr. P. H.,** State
 registrar, Augusta.

Division of venereal diseases:
¹**H. E. Hitchcock, M. D.,** director, Augusta.

Appropriations for fiscal year ending Dec. 31,
 1919:

Salaries and clerk hire	\$20,000
Office expenses and epidemic fund.....	18,000
Venereal-disease control work	8,000
	46,000

Other source of revenue:
 Census Bureau, Washington, D. C., about \$800.

Publications issued by the department of health:
 Annual report of department of health.
 Annual report on vital statistics.
 Monthly scientific bulletin.
 Monthly news bulletin.

MARYLAND.

Board of health:
Wm. H. Welch, M. D., president, Baltimore.
Albert C. Ritchie, attorney general, Baltimore.
John S. Fulton, M. D., secretary, Baltimore.
Wm. W. Ford, M. D., Baltimore.
John D. Blake, M. D., Baltimore.
Tolley A. Biays, Baltimore.

Executive health officer:
¹**John S. Fulton, M. D.,** State health officer,
 Baltimore.

Bureau of communicable diseases:
C. Hampson Jones, M. D., chief, Baltimore.

Bureau of vital statistics:
Frederic V. Beidler, M. D., chief, Baltimore.

Food and drug commissioner:
¹**Fred C. Blanck, Ph. D.,** chief, Baltimore.

Bureau of Bacteriology:
Wm. Royal Stokes, M. D., chief, Baltimore.

Bureau of sanitary engineering:
Robert B. Morse, C. E., chief, Baltimore.

Bureau of chemistry:
¹**Wyatt W. Randall, Ph. D.,** chief, Baltimore.

MARYLAND—Continued.

Appropriations for fiscal year ending Sept. 30, 1919:

Bacteriology	\$14,528
Chemistry	11,025
Communicable diseases	21,250
Executive office	32,808
Food and drugs	18,210
Sanitary engineering	30,135
Vital statistics	12,270
Sanitary districts	39,294
	179,520

Publications issued by the health department:
 Annual report.
 Health officers' bulletin.

MASSACHUSETTS.

Public health council:
Eugene R. Kelley, M. D., chairman, Boston.
David L. Edsall, M. D., Boston.
W. J. Gallivan, M. D., South Boston.
J. E. Lamoureux, M. D., Lowell.
Prof. W. T. Sedgwick, Cambridge.
Prof. G. C. Whipple, Cambridge.
Warren C. Jewett, Worcester.

Executive health officer:
¹**Eugene R. Kelley, M. D.,** State commissioner
 of health, Boston.

Division of sanitary engineering:
¹**X. H. Goodnough,** director and chief engineer,
 Boston.

Division of water and sewage laboratories:
¹**H. W. Clark,** director and chemist, Boston.

Division of communicable diseases:
¹**Bernard W. Carey, M. D.,** director, Winthrop.
Stanley H. Osborn, M. D., epidemiologist,
 Cambridge.
Edith A. Beckler, bacteriologist, Boston.

Division of hygiene:
¹**Merrill E. Champion, M. D.,** director, Marble-
 head.

Division of food and drugs:
¹**Herman C. Lythgoe,** director and analyst,
 Newton.

Division of biologic laboratories:
Milton J. Rosenau, M. D., director and pathol-
 ogist, Brookline.

Antitoxin and vaccine laboratory:
¹**Arnold N. Allen, M. D.,** assistant director,
 Boston.

Wasserman laboratory:
W. A. Hinton, M. D., assistant director, Canton.

Appropriations for fiscal year ending Nov. 30, 1919:

Division of administration	\$28,700
Division of hygiene	27,850
Division of communicable diseases	101,350
Production and distribution of anti- toxin and vaccine	50,300
Manufacture and distribution of ar- sphenamine	19,200
Division of food and drug inspection	34,050
Division of water supply and sewage disposal	65,000
State examiners of plumbers	4,800
An investigation relative to causes, treatment, and prevention of cancer	3,000
	334,200

¹ Full-time officer.

MASSACHUSETTS—Continued.**Publications issued by health department:**

Monthly bulletin.

Annual report.

Miscellaneous pamphlets dealing with health matters.

MICHIGAN.**Public health council:**

Guy L. Klefer, M. D., president, Detroit.

J. G. Turner, M. D., vice president, Houghton.

C. C. Slemmons, M. D., Grand Rapids.

Frank M. Gowdy, M. D., St. Joseph.

Executive health officer:**R. M. Olin, M. D.**, State health commissioner, Lansing.**Bacteriologists:**

C. C. Young, Lansing.

E. R. Chambers, B. S., Houghton.

Sanitary engineer:

E. D. Rich, C. E., Lansing.

Appropriations for fiscal year ending June 30, 1920:

Personal services.....	\$21,200.00
Laboratories.....	11,060.00
Medical inspection.....	17,000.00
Engineering division.....	5,400.00
General expenses.....	25,457.54

80,137.54

Publications issued by health department:

Monthly bulletin.

Annual report.

MINNESOTA.**Board of health:**

Egil Bockmann, M. D., president, St. Paul.

C. L. Scofield, M. D., vice president, Benson.

D. N. Jones, M. D., Minneapolis.

Werner Hemstead, M. D., St. Cloud.

L. P. Wolff, St. Paul.

Neill M. Watson, M. D., Red Lake Falls.

F. N. Hunt, M. D., Fairmont.

F. W. Cappelen, Minneapolis.

Executive health officer:**H. M. Bracken, M. D.**, secretary State board of health, St. Paul.**Assistant secretary State board of health:**¹ Charles E. Smith, jr., M. D., St. Paul.**Division of records:**¹ O. C. Pierson, director, St. Paul.**Division of preventable diseases:**¹ A. J. Chesley, M. D., director, Minneapolis.**Pasteur institute:**¹ O. McDaniel, chief; assistant director of division of preventable diseases, Minneapolis.**Division of sanitation:**¹ H. A. Whittaker, director, Minneapolis.**Division of vital statistics:**¹ Mrs. Gerda C. Pierson, director, St. Paul.**Division of tuberculosis:**¹ Charles E. Smith, jr., M. D., director, St. Paul.**Division of venereal diseases:**

H. G. Irvine, M. D., director, St. Paul.

¹ L. W. Feezer, assistant director, St. Paul.**MINNESOTA—Continued.****Division of venereal diseases—Continued.**¹ Mabel S. Ulrich, M. D., supervisor of social hygiene education, St. Paul.**Appropriations for fiscal year ending July 31, 1920:**

General fund.....	\$17,772
Vital statistics.....	10,000
Communicable diseases.....	25,000
Laboratories.....	30,600
Pasteur institute.....	11,435
Sanitary engineering.....	7,000
Free antitoxin.....	10,000
Prevention of blindness.....	1,000
Infectious-disease carriers.....	500
Infantile paralysis.....	5,000
Soldiers' venereal disease fund.....	30,000
	<hr/>
	147,707

Other sources of revenue:

Aid from county and city for branch laboratory at Duluth.....	1,200
Aid from physicians for branch laboratory at Mankato.....	1,800

Publications issued by health department:

Monthly mortality bulletin.

Biennial report.

MISSISSIPPI.**Board of health:**

C. D. Mitchell, M. D., president, Jackson.

T. F. Elkin, M. D., Tupelo.

L. L. McDougal, M. D., Booneville.

J. H. McNeill, M. D., Olive Branch.

S. E. Eason, M. D., New Albany.

T. W. Reagan, M. D., Union.

W. H. Watson, M. D., Brandon.

S. W. Glass, M. D., Lyon.

W. S. Leathers, M. D., Jackson.

H. F. Garrison, M. D., Clinton.

B. L. Crawford, M. D., Tylertown.

R. H. Cranford, M. D., Moselle.

A. J. Ware, M. D., Greenville.

Executive health officer:**W. S. Leathers, M. D.**, secretary State board of health, Jackson.**Bureau of vital statistics:**

R. W. Hall, M. D., director, Jackson.

Hygienic laboratory:

T. R. W. Wilson, M. D., Jackson.

Chief sanitary inspector:

Cyrus M. Shipp, M. D., Jackson.

Appropriations for fiscal year ending Dec. 31, 1919:

General fund.....	\$14,000
Hygienic laboratory.....	11,000
Food and drug inspection and municipal sanitation.....	3,600
Prevention of blindness in the newborn.....	300
Rural sanitation.....	12,000
Vital statistics.....	8,000
	<hr/>
	48,900

Publications issued by health department:

Biennial report.

Monthly bulletin.

¹ Full-time officer.

MISSOURI

Board of health:

- W. A. Clark, M. D., president, Jefferson City.
- W. J. Ferguson, M. D., vice president, Sedalia.
- Geo. H. Jones, M. D., secretary, Jefferson City.
- E. P. North, M. D., St. Louis.
- T. A. Son, M. D., Bonne Terre.
- T. W. Cotton, M. D., Van Buren.
- T. H. Wilcox, M. D., Bowling Green.

Executive health officer:

Geo. H. Jones, M. D., secretary of State board of health, Jefferson City.

Statistician:

C. J. Kaiser, Jefferson City.

Appropriations for biennial period ending Dec. 31, 1920:

Board of health fund, bureau of licensure.....	\$15,000
Salaries.....	25,000
Printing.....	6,000
Postage.....	4,000
Office expenses.....	2,500
	<hr/>
	52,500

Publication issued by health department:
Annual report.

MONTANA

Board of health:

- D. J. Donohue, M. D., president, Butte.
- L. H. Fligman, M. D., vice president, Helena.
- F. G. Balsam, M. D., Billings.
- E. L. Pampel, M. D., Livingston.
- E. M. Porter, M. D., Great Falls.

Executive health officer:

W. F. Cogswell, M. D., secretary, Helena.

Division of communicable diseases:

John J. Sippy, M. D., epidemiologist, Helena.

Division of child welfare:

Margaret Hughes, director, Helena.

Division of food and drugs:

H. M. Shea, director, Helena.

Division of venereal diseases:

F. J. O'Donnell, director, Helena.

Division of publicity and education:

E. O. Sisson, director, Missoula.

Division of vital statistics:

W. F. Cogswell, State registrar, Helena.

Division of water and sewage:

W. M. Cobleigh, director, Bozeman.

H. B. Foote, inspector of water plants, Bozeman.

Water and sewage laboratory and food and drug laboratory:

W. M. Cobleigh, director, Bozeman.

R. C. Sherwood, analyst, Bozeman.

Hygienic laboratory:

A. H. McCray, M. D., director, Helena.

Appropriations for health department:

Salaries.....	\$8,900.00
Division of child welfare.....	4,000.00
Expenses board of health.....	4,000.00
Hygienic laboratory.....	8,000.00
Inspection of water plants.....	4,000.00

¹ Full-time officer.

MONTANA—Continued.

Appropriations for health department—Continued.

Food and water laboratory.....	\$5,000.00
Enforcing food and drug law.....	6,000.00
Division of communicable diseases..	18,000.00
Venereal-diseases control work.....	4,088.76
Board of entomology (spotted fever work).....	8,000.00
Hygienic laboratory building.....	50,000.00
Division of vital statistics.....	3,000.00
	<hr/>
	122,988.76

Other source of revenue:

Fees for embalmers' licenses.

Fiscal year ends Feb. 28.

Publications issued by the health department:

- Monthly bulletin.
- Biennial report.

NEBRASKA

Board of health:

- S. R. McKelvie, governor, Lincoln.
- Clarence A. Davis, attorney general, Holdrege.
- W. H. Clemmons, superintendent of public instruction, Fremont

Medical examining board:

- J. E. Spatz, M. D., president, Fairfield.
- C. L. Mullins, M. D., vice president, Broken Bow.

H. J. Lohrhoff, M. D., secretary, Lincoln.

S. J. Stewart, M. D., treasurer, Hastings.

Executive health officer:

William F. Wild, M. D., commissioner of health, Lincoln.

Epidemiologist:

W. H. Wilson, M. D., Lincoln.

Bacteriologist:

Edmund G. Zimmerer, M. D., Lincoln.

Sanitary engineer:

William Grant, S. B., C. E., Lincoln.

Statistician:

May F. Hyland, Lincoln.

Appropriations for biennial period ending Mar. 31, 1921:

Salaries.....	\$32,040
Maintenance.....	20,000
	<hr/>
	52,040

NEVADA

Board of health:

- Emmet D. Boyle, governor, president.
- S. L. Lee, M. D., secretary, Carson City.
- George Brodigan, secretary of State.
- W. H. Hood, M. D., Reno.
- G. F. Ruediger, M. D., Reno.

Executive health officer:

S. L. Lee, M. D., secretary State board of health, Carson City.

State hygienic laboratory at State university:

G. F. Ruediger, M. D., director, Reno.

Appropriation for the fiscal year ending Dec. 31, 1919, \$5,000.

Publication issued by health department:

Biennial report.

NEW HAMPSHIRE.**Board of health:**

Robert Fletcher, C. E., president, Hanover.
D. E. Sullivan, M. D., Concord.
George C. Wilkins, M. D., Manchester.
Sibley G. Morrill, M. D., Concord.
John H. Bartlett, governor, Portsmouth.
Oscar L. Young, attorney general, Laconia.

Executive health officer:

¹Charles Duncan, M. D., secretary State board of health, Concord.

Laboratory of hygiene:

¹Charles D. Heward, chemist.
¹Clara Isreali, M. D., bacteriologist.
¹Joseph X. Duval, inspector, Concord.
¹Aloy Soong, serologist.

Veneral disease division:

¹Charles A. Weaver, M. D., Manchester.

Appropriations for fiscal year ending Aug. 31, 1921:

State board of health.....	\$14, 150
Laboratory of hygiene.....	12, 100
Vital statistics.....	4, 200
Lunacy commission.....	1, 300

31, 650

Publications issued by health department:

Quarterly bulletin.
Biennial report.

NEW JERSEY.**Board of health:**

William H. Chew, president, Salem.
J. Oliver McDonald, M. D., vice president, Trenton.
Frederick T. Crane, C. E., Orange.
Oliver Kelly, Oak Tree.
Clyde Potts, C. E., Morristown.
Henry Spence, M. D., Jersey City.
H. E. Winter, V. M. D., Plainfield.
Thomas B. Lee, M. D., Camden.

Executive health officer:

¹Jacob C. Price, M. D., director of health, Trenton.

Laboratory of hygiene:

¹R. B. Fitz-Randolph, chief, Trenton.

Division of general administration:

¹Charles J. Merrell, chief, Trenton.

Bureau of food and drugs:

¹Walter W. Scofield, jr., chief, Trenton.

Bureau of medical supervision:

¹A. C. Hunt, M. D., chief, Trenton.

Division of child hygiene:

Julius Levy, M. D., consultant, Trenton.

Bureau of local health administration:

¹David C. Bowen, chief, Trenton.

Bureau of engineering:

¹H. P. Croft, chief, Trenton.

Bureau of vital statistics:

¹David S. South, chief, Trenton.

Bureau of veneral disease control:

¹J. Holmes Smith, M. D., chief.

Appropriations for the fiscal year ending June 30, 1919:

Salaries.....	\$102, 740
Expenses.....	47, 500
Division of child hygiene.....	25, 000

175, 240

NEW JERSEY—Continued.**Publications issued by health department:**

Monthly bulletin.
Annual report.

NEW MEXICO.**Board of health:**

Mrs. A. Otero-Warren, chairman, Santa Fe.
Oliver T. Hyde, M. D., Albuquerque.
John Tombs, secretary, Albuquerque.

Executive health officer:

C. E. Waller, M. D., U. S. P. H. S., temporary commissioner of health, Albuquerque.

Appropriation for the fiscal year ending Nov. 30, 1920, \$13,000.

NEW YORK.**Public health council:**

Hermann M. Biggs, chairman, Albany.
Joseph A. Warren, secretary, New York.
Homer Folks, New York.
Simon Flexner, M. D., New York.
Prof. Henry N. Ogden, Ithaca.
T. Mitchell Prudden, M. D., New York.
Jacob Goldberg, M. D., Buffalo.
Mrs. Ella L. Blair, New York.

Executive health officer:

Herman M. Biggs, M. D., commissioner of health, Albany.

Deputy commissioner of health:

Mathias Nicoll, jr., M. D., Albany.

Secretary:

John A. Smith, M. D., Albany.

Assistant to deputy commissioner:

B. R. Rickards, S. B., Albany.

Executive clerk:

Fenimore D. Beagle, Albany.

Division of sanitary engineering:

Theodore Horton, C. E., director, Albany.

Division of vital statistics:

Otto R. Eichel, M. D., director, Albany.

Division of child hygiene:

H. L. K. Shaw, M. D., director, Albany.

Division of communicable diseases:

Paul B. Brooks, M. D., acting director, Albany.

Division of tuberculosis:

M. Edgar Rose, M. D., supervisor, Albany.

Bureau of veneral diseases:

J. S. Lawrence, M. D., chief, Albany.

Division of laboratories and research:

Augustus B. Wadsworth, M. D., director, Albany.

Appropriations for fiscal year ending June 30, 1919:

Personal services.....	\$392, 750
Fuel light, power, and water.....	3, 300
Printing.....	48, 000
Printing, departmental reports.....	5, 000
Advertising.....	200
Equipment.....	25, 575
Supplies.....	38, 100
Traveling expenses.....	51, 600
Communication.....	18, 300 ¹
General plant service—general.....	2, 760
Care of typhoid carriers.....	1, 000
Influenza epidemic.....	50, 000
Rent, branch offices and laboratory...	7, 760
Veneral-disease control work.....	14, 200

658, 545

¹ Full-time officer.

NEW YORK—Continued.

Other source of revenue:

Fees from certified transcripts of birth, death, and marriage certificates, and registration of laboratories, approximately \$1,000 per annum.

Publications issued by the health department:

Monthly health news.
Fortnightly official bulletin.

NORTH CAROLINA.

Board of health:

J. Howell Way, M. D., president, Waynesville.
Richard H. Lewis, M. D., Raleigh.
J. L. Ludlow, C. E., Winston-Salem.
Thomas E. Anderson, M. D., Statesville.
Charles O'H. Laughinghouse, M. D., Greenville.

Edward J. Wood, M. D., Wilmington.
F. R. Harris, M. D., Henderson.
Cyrus Thompson, M. D., Jacksonville.
Edward C. Register, M. D., Charlotte.

Executive health officer:

W. S. Rankin, M. D., secretary and treasurer, State board of health, Raleigh.
A. J. Warren, M. D., assistant secretary.

Laboratory of hygiene:

C. A. Shore, M. D., director, Raleigh.

Bureau of engineering and inspection:

H. E. Miller, C. E., director, Raleigh.

Deputy State registrar:

J. R. Gordon, M. D., Raleigh.

North Carolina sanatorium:

L. B. McBrayer, M. D., superintendent, Sanatorium.

Bureau of medical inspection of schools:

George M. Cooper, M. D., director, Raleigh.

Bureau of county health work:

B. E. Washburn, M. D., director, Raleigh.

Bureau of epidemiology:

A. McR. Crouch, M. D., chief, Raleigh.

Bureau of infant hygiene:

Mrs. Kate Brew Vaughn, director, Raleigh.

Bureau of venereal diseases:

James A. Keiger, M. D., director, Raleigh.

Appropriations for fiscal year ending Nov. 30, 1919:

State board of health	\$57,225
Vital statistics	10,000
Laboratory of hygiene	25,000
Tuberculosis sanatorium	50,000
School inspection	50,000
Rural sanitation	27,500
Control of disease	6,000
Prevention of blindness	3,000
Venereal-disease control work	10,000
	<hr/>
	238,725

Other sources of revenue:

International health board	14,000
Federal Government	27,000
Counties, for county health work	36,000
Counties, for treating defective eye, ear, nose, and throat conditions in public-school children	26,000
Fees paid the laboratory and inspection taxes on privies	39,000

NORTH CAROLINA—Continued.

Publications issued by health department:

Monthly bulletin.
Biennial report.

NORTH DAKOTA.

Board of health:

William Langer, attorney general, president, Bismarck.
A. M. Call, M. D., vice president, Rugby.
C. J. McGurran, M. D., secretary, Devils Lake.

Executive health officer:

C. J. McGurran, M. D., secretary State board of health, Devils Lake.

Appropriations for biennial period ending June 30, 1921:

Salaries (specific)	\$5,520
Miscellaneous	5,200
	<hr/>
	10,720

Publications issued by health department:

Quarterly bulletin.
Annual statistical data.
Biennial report.

OHIO.

Public health council:

G. D. Dummis, M. D., chairman, Middletown.
C. O. Probst, M. D., Columbus.
W. I. Jones, D. D. S., Columbus.
R. M. Caliec, Cleveland.

Allen W. Freeman, M. D., commissioner of health, Columbus.

James E. Bauman, secretary, Columbus.

Executive health officer:

Allen W. Freeman, M. D., commissioner of health, Columbus.

Division of administration:

James E. Bauman, deputy commissioner of health, Columbus.

Division of sanitary engineering:

W. H. Dittoe, chief engineer, Columbus.

Division of communicable diseases:

E. J. Schwartz, M. D., director, Columbus.

Division of public health, education, and tuberculosis:

John R. McDowell, M. D., director, Columbus.

Division of child hygiene:

F. M. Hollingshead, M. D., director, Columbus.

Division of plumbing inspection:

W. F. Duffy, State inspector, Columbus.

Division of laboratories:

L. H. Van Buskirk, B. S., director, Columbus.

Division of industrial hygiene:

R. P. Albaugh, M. D., director, Columbus.

Appropriations for fiscal year ending June 30, 1920:

Personal services	\$129,940
Maintenance	67,600
	<hr/>
	197,540

Publication issued by health department:

Monthly public health journal.

OKLAHOMA.

Executive health officer:

¹A. E. Lewis, M. D., commissioner of health, Oklahoma City.

¹ Full-time officer.

OKLAHOMA—Continued.

Assistant commissioner of health:

1 J. P. Folan, Oklahoma City.

Chemist:

1 W. A. Walker, Oklahoma City.

Bacteriologist:

1 C. B. Norris, Oklahoma City.

Appropriations for the fiscal year ending June 30, 1920:

Salaries.....	\$42,300
Biological products.....	7,500
Sanitary inspection.....	2,500
Laboratory.....	5,000
Printing.....	5,000
Maintenance of bureau of venereal diseases.....	18,000
Maintenance of clinics.....	25,000
Control of epidemics.....	10,000
Contingent.....	5,000
Traveling expenses.....	4,200
For assistance of honorably discharged ill soldiers who enlisted from the State.....	10,000
	<hr/>
	134,500

Publication issued by health department:
Annual report.

OREGON.

Board of health:

F. M. Brooks, M. D., president, Portland.
C. T. Bacon, M. D., vice-president, Le Grande.
Andrew C. Smith, M. D., Portland.
R. J. Marsh, M. D., Portland.
W. H. Dale, M. D., Harrisburg.
W. B. Morse, M. D., Salem.

Executive health officer:

David N. Roberg, M. D., D. T. M., State health officer, Portland.

Registrar of vital statistics:

David N. Roberg, M. D., Portland.

Bacteriologist:

Emma Howe, Portland.

Appropriation for fiscal year ending Dec. 31, 1919, \$17,000.

Publications issued by health department:

Annual report.
Biennial report.
Pamphlets and posters.

PENNSYLVANIA.

Advisory board:

Charles B. Penrose, M. D., Philadelphia.
Adolph Koenig, M. D., Pittsburgh.
Edgar M. Green, M. D., Easton.
Joseph S. Neff, M. D., Narberth.
Lee Masterton, C. E., Johnstown.
Clarence J. Marshall, V. M. D., Harrisburg.

Executive health officer:

Edward Martin, M. D., commissioner of health, Harrisburg.

Assistant commissioner of health:

John D. McLean, M. D., Harrisburg.

Assistant to the commissioner:

Thomas W. Jackson, M. D., Harrisburg.

Executive secretary:

James F. McCoy, Harrisburg.

PENNSYLVANIA—Continued.

Assistant to executive secretary:

Edna Hosler, Harrisburg.

Division of medical inspection:

Howard L. Hull, M. D., chief medical inspector, Harrisburg.

Division of school hygiene:

George K. Ströde, M. D., chief, Harrisburg.

Division of laboratories:

John L. Laird, M. D., chief of laboratories, Philadelphia.

Division of sanatoria:

F. C. Johnson, M. D., medical director, Pennsylvania State sanatorium for tuberculosis No. 1, Mont Alto.

W. G. Turnbull, M. D., medical director, Pennsylvania State sanatorium for tuberculosis No. 2, Cresson.

T. H. A. Stites, M. D., medical director, Pennsylvania State sanatorium for tuberculosis No. 3, Hamburg.

Division of tuberculosis dispensaries:

Karl Schaffle, M. D., medical inspector, Harrisburg.

Division of genito-urinary dispensaries:

S. Leon Gaus, M. D., chief, Harrisburg.

Division of supplies and biological products:

Roy G. Miller, chief, Harrisburg.

Division of engineering:

C. A. Emerson, jr., chief engineer, Harrisburg.

Bureau of housing:

John Molitor, chief, Harrisburg.

Bureau of public service:

D. V. Ness, chief, Harrisburg.

Bureau of vital statistics:

Wilmer R. Batt, M. D., State registrar, Harrisburg.

Division of accounts:

Clinton T. Williams, chief, Harrisburg.

Division of purchasing:

Charles H. Clappier, jr., acting chief, Harrisburg.

Division of child hygiene:

Dorothy Child, M. D., chief, Harrisburg.

Bureau of drug control:

Thomas S. Blair, M. D., chief, Harrisburg.

Division of Public sanitary education:

William C. Miller, M. D., director, Harrisburg.

Division of nurses:

Alice M. O'Halloran, chief, Harrisburg.

PHILIPPINE ISLANDS.

Council of hygiene, advisory board to the director of health:

Fernando Calderon, M. D., president, Manila.
Manuel Gomez, M. D., secretary, Manila.
Manuel Guerrero, M. D., Manila.
Jose Albert, M. D., Manila.
Benito Valdez, M. D., Manila.
Anacleto Diaz, Manila.
Tomas Earnshaw, Manila.

Executive health officer:

L. R. Thompson, M. D., chief quarantine officer, Manila.

Assistant director of health:

Vicente de Jesus, M. D., Manila.

¹ Full-time officer.

PHILIPPINE ISLANDS—Continued.

Division of provincial sanitation:
 Eugenio Hernando, M. D., chief, Manila.
 Division of city of Manila sanitation:
 Salvador V. del Rosario, M. D., chief, Manila.
 Office of statistics:
 Manuel Gomez, M. D., chief, Manila.
 Office of sanitary engineering:
 Edward L. Barber, chief, Manila.
 Office of hygienic and industrial development:
 Mamerto Tiano, acting chief, Manila.
 Office of district nursing:
 Miss Pearlletta Clark, chief, Manila.
 Clerical office:
 Michael J. Walsh, chief, Manila.
 Office of property:
 Bertrand D. Burnham, chief, Manila.
 Appropriations for fiscal year ending Dec. 31, 1919:
 Salaries and wages \$454,538.50
 Miscellaneous expenses 787,879.50
 Furniture and equipment 27,850.00
 1,270,268.00

Publications issued by health service:
 Quarterly report.
 Annual report.
 Weekly report.
 Semiweekly bulletin.

PORTO RICO.

Insular board of health:
 Francisco del Valle Atilas, M. D., president, San Juan.
 José Lugo Vifá, M. D., secretary, San Juan.
 José A. López Antongiorgi, M. D., San Juan.
 José J. Monclova, pharmacist, Río Piedras.
 Gustavo Muñoz Diaz, M. D., San Juan.
 José S. Belaval, M. D., San Juan.
 Juan Hernández López, lawyer, San Juan.
 Francis W. Dalrymple, engineer, San Juan.
 Executive health officer:
 1Alejandro Ruiz Soler, M. D., commissioner of health, San Juan.
 1Eliseo Font Guillot, M. D., assistant commissioner of health, San Juan.
 Division of property and accounts:
 1Antonio Llabrés, chief, San Juan.
 Division of sanitary engineering:
 1Antonio Romero Moreno, sanitary engineer, San Juan.
 Bacteriological laboratory:
 1F. J. Hernández, M. D., director, San Juan.
 Chemical laboratory:
 1R. del Valle Sárraga, chemist, director, San Juan.
 Division of transmissible diseases and statistics:
 1Antonio Fernós Isern, M. D., chief, San Juan.
 Appropriations for fiscal year ending June 30, 1919:
 Department of health (proper), salaries and contingent expenses... \$200,370.00
 Leper colony 15,762.00
 Quarantine hospital 8,332.00
 Mosquito extermination 25,000.00
 Suppression of anemia 20,000.00
 Emergency fund for control and suppression of epidemics (unexpended balance previous year)... 24,389.49

PORTO RICO—Continued,

Appropriations for fiscal year ending June 30, 1919—Continued.
 Trust funds for control and suppression of epidemics (fines for violations of sanitary regulations)..... \$894.26
 Care of tuberculosis patients..... 40,000.00
 Education and support of poor deaf-mute children 1,200.00
 Girls' charity school..... 56,784.00
 Boys' charity school..... 81,322.00
 Blind asylum..... 24,801.00
 Insane asylum..... 75,201.00
 574,555.75
 Publication issued by health department:
 Annual report.

RHODE ISLAND.

Board of health:
 R. Morton Smith, M. D., president, Riverpoint.
 Alexander B. Briggs, M. D., Ashaway.
 Thomas J. McLaughlin, M. D., Woonsocket.
 Norman M. MacLeod, M. D., Newport.
 William F. Williams, M. D., Bristol.
 Joseph M. Bennett, M. D., Providence.
 M. S. Budlong, M. D., Providence.
 Executive health officer:
 1E. U. Richards, M. D., secretary State board of health and State registrar, Statehouse, Providence.
 Pathologist:
 1Lester A. Round, Providence.
 Chemist:
 1Stephen De M. Gage, Providence.
 Appropriations for fiscal year ending Dec. 31, 1919:
 State board of health \$13,500
 Pathological laboratory 15,500
 Chemical laboratory 12,500
 41,500
 Publications issued by health department:
 Quarterly bulletin.
 Annual report of births, deaths, and marriages.
 Annual report of State board of health.

SOUTH CAROLINA.

Executive committee, board of health:
 Robert Wilson, jr., M. D., chairman, Charleston.
 R. A. Marsh, M. D., Edgefield.
 C. C. Gambrell, M. D., Abbeville.
 E. A. Hines, M. D., Seneca.
 W. J. Burdell, M. D., Lugoff.
 William Egleston, M. D., Hartsville.
 W. W. Dodson, Ph. G., Greenville.
 W. M. Lester, M. D., Columbia.
 Samuel M. Wolfe, attorney general, Columbia.
 Rut. L. Osborne, comptroller general, Columbia.
 Executive health officer:
 1James A. Hayne, M. D., State health officer, Columbia.
 Department of county health units:
 1L. A. Riser, M. D.
 Bureau of child hygiene and supervisor of public health nursing:
 1Mrs. Ruth A. Dodd, R. N.

1 Full-time officer.

SOUTH CAROLINA—Continued.

Bureau of venereal diseases:
 1C. V. Akin, M. D., U. S. P. H. S., Columbia.
 Laboratory Department:
 1J. R. Cain, M. A., B. S.
 Bureau of vital statistics:
 1C. W. Miller.
 Bacteriologist and chemist:
 F. L. Parker, jr., M. D., Ph. D.
 South Carolina sanatorium:
 1Ernest Cooper, M. D.
 Field secretary, South Carolina sanatorium:
 1Mrs. A. I. Rembert.
 Sanitary engineer:
 1E. L. Filby, C. E.
 Appropriations for fiscal year ending Dec. 31, 1919:
 Salaries..... \$9,350.00
 General expenses..... 6,545.55
 Vital statistics..... 6,000.00
 Intensive county health work..... 17,500.00
 Tuberculosis..... 48,000.00
 Child hygiene..... 10,000.00
 Influenza suppression..... 10,053.34
 Venereal-disease control work..... 10,000.00

137,448.89
 Publications issued by health department:
 Annual report.
 Bulletins of various departments.

SOUTH DAKOTA.

Board of health and medical examiners:
 C. E. McCauley, M. D., president, Aberdeen.
 A. S. Jackson, M. D., vice president, Lead.
 C. A. Bower, M. D., Mitchell.
 H. R. Kenaston, M. D., Bonesteel.
 Park B. Jenkins, M. D., superintendent, Wau-
 bay.

Executive health officer:
 Park B. Jenkins, M. D., superintendent,
 Waubay.

Laboratory:
 J. C. Ohlmacher, director, Vermilion.

Appropriations for fiscal year ending June 30, 1920:
 Salary of superintendent..... \$2,000
 Salary assistant superintendent, stenog-
 rapher, office maintenance, equipment,
 stationery, clerical work, special as-
 sistance, traveling expenses, and in-
 cidentals..... 8,000
 Printing and necessary publications.... 2,000
 Per diem, expense, and mileage of four
 members..... 1,500
 Biological products..... 2,000
 Division of medical licensure..... 500
 Division of venereal diseases..... 5,000

21,000
 Publications issued by health department:
 Quarterly bulletin.
 Mothers' book.
 Biennial report.

TENNESSEE.

Board of health:
 E. M. Sanders, M. D., president, Nashville.
 W. J. Miller, M. D., vice president, Johnson
 City.
 C. B. A. Turner, M. D., Dyer.
 F. M. McKee, M. D., Nashville.

TENNESSEE—Continued.

Executive health officer:
 1Olin West, M. D., secretary State board of
 health, Nashville.
 Registrar of vital statistics:
 Olin West, M. D. (acting), Nashville.
 Director of rural sanitation:
 1E. L. Bishop, M. D. (acting), Nashville.
 Bacteriologist:
 William Litterer, M. D., Nashville.
 Pure food and drug inspector:
 1Harry L. Eskew, Nashville.

Appropriations for biennial period ending Mar. 19,
 1921:

Laboratory.....	\$12,000
Epidemic fund.....	5,000
Vital statistics.....	21,900
Rural sanitation.....	25,900
Administration, office, etc.....	18,000
Trachoma hospital.....	500
.....	83,200

Other sources of revenue:
 International health commission, rural
 sanitation..... 25,900
 Individual counties varying sums for
 rural sanitation.

TEXAS.

Board of health:
 C. W. Goddard, M. D., president, Austin.
 W. L. Crosthwait, M. D., Waco.
 Guy Reed, M. D., Beaumont.
 W. L. Russ, M. D., San Antonio.
 G. H. Saudefer, M. D., Abilene.
 T. B. Fisher, M. D., Dallas.
 E. M. Wood, M. D., Hutto.

Executive health officer:
 1C. W. Goddard, M. D., State health officer,
 Austin.

Assistant State health officer:
 1Oscar Davis, M. D., Austin.

Registrar of vital statistics and secretary of State
 board of health:

1M. E. Parker, M. D., Austin.
 Bureau of venereal and other communicable dis-
 eases:

1H. C. Hall, M. D., director, Austin.

Bureau of child hygiene:

1Oscar Davis, M. D., director, Austin.

Bureau of public health education:

Chemist and bacteriologist:
 G. M. Graham, M. D., Austin.

Sanitary engineer:
 1V. M. Ehlers, C. E., Austin.

Bureau of rural sanitation:

1P. W. Covington, M. D., director, Austin.

Appropriations for biennial period ending Aug. 31,
 1919:

General.....	\$200,840
Special for rural sanitation.....	70,000
Venereal-disease control work.....	30,000
Bureau of vital statistics.....	8,000
Maintenance of lepers.....	25,000
.....	333,840

1Full-time officer.

TEXAS—Continued.

Publications issued by health department:

- Biennial report.
- Monthly health magazine.
- Phamphlets.

UTAH.

Board of health:

- Fred Stauffer, M. D., president, Salt Lake City.
- T. B. Beatty, M. D., secretary, Salt Lake City.
- H. K. Merrill, M. D.; Logan.
- Ezra Rich, M. D., Ogden.
- C. E. McDermid, M. D., Castle Gate.
- A. F. Doremus, C. E., Salt Lake City.
- J. F. Critchlow, M. D., Salt Lake City.

Executive health officer:

- T. B. Beatty, M. D., State health commissioner, Salt Lake City.

Appropriations for biennial period ending Mar. 31, 1921:

Salaries.....	\$15,000
Contingent account.....	15,000
Vital statistics account.....	3,000
Venereal-disease control work.....	8,000
	41,000

Publications issued by health department:

- Quarterly bulletin.
- Biennial report.

Fiscal year ends Dec. 31.

VERMONT.

Board of health:

- F. Thomas Kidder, M. D., president and treasurer, Woodstock.
- William T. Slayton, M. D., Morrisville.
- Charles F. Dalton, M. D., secretary, Burlington.

Executive health officer:

- Charles F. Dalton, M. D., secretary State board of health, Burlington.

Laboratory of hygiene:

- B. H. Stone, M. D., director, Burlington.

Sanitary engineer:

- J. W. Votey, C. E., Burlington.

Sanitary inspector:

- Henri L. Pache, M. D., Burlington.

Division of venereal diseases:

- Henri L. Pache, M. D., Burlington.

Division of tuberculosis:

- H. W. Slocum, A. B., Burlington.

Rural dental clinics:

- D. S. Darling, D. D. S., director.

Appropriations for the fiscal year ending June 30, 1920:

Salaries and expenses.....	\$10,250
Laboratory of hygiene.....	18,000
Tuberculosis.....	2,000
Other expenses.....	4,750
District health officers.....	35,000
	70,000

Other source of revenue:

- Private donation for study and treatment of infantile paralysis.

Publications issued by health department:

- Quarterly bulletin.
- Biennial report.

VIRGINIA.

Board of health:

- W. M. Smith, M. D., president, Alexandria.
- B. R. Tucker, M. D., vice president, Richmond.
- J. B. Fisher, M. D., secretary, Midlothian.
- W. W. Baker, Hallsboro.
- A. G. Crockett, M. D.; Max Meadows.
- W. F. Drewry, M. D., Petersburg.
- H. T. Marshall, M. D., University of Virginia.
- Guy R. Harrison, D. D. S., Richmond.
- T. W. Edmunds, M. D., Danville.
- George B. Lawson, M. D., Roanoke.
- Edward McGuire, M. D., Richmond.
- L. T. Royster, M. D., Norfolk.
- Reid White, M. D., Lexington.

Executive health officer:

- Ennion G. Williams, M. D., State health commissioner, Richmond.

Assistant health commissioner:

- Roy K. Flannagan, M. D., Richmond.

Registrar of vital statistics:

- W. A. Plecker, M. D., Richmond.

Bacteriologist:

- J. O. Fitzgerald, jr., M. D., Richmond.

Sanitary engineer:

- Richard Messer, C. E., Richmond.

Appropriations for fiscal year ended Feb. 28, 1919:

State board of health.....	\$40,000
Vital statistics.....	7,000
Publicity.....	2,000
District nursing.....	2,500
For laboratory (for Wasserman test)...	2,500
Community sanitation for rural sections.....	10,000
	64,000

Other source of revenue:

- Fees for hotel inspections, \$2,407.86.

Publications issued by health department:

- Monthly bulletin.
- Annual report.

WASHINGTON.

Board of health:

- H. H. McCarthy, M. D., president, Spokane.
- F. R. Hedges, M. D., Everett.
- J. R. Brown, M. D., Tacoma.
- Mrs. R. C. McCredie, Sunnyside.
- E. F. Benson, commissioner of agriculture, Olympia.

Executive health officer:

- John B. Anderson, M. D., State commissioner of health, Seattle.

Epidemiologist:

- J. E. Henry, M. D., Seattle.

Bacteriologist:

- Mae E. Larkin, Seattle.

Venereal disease officer:

- Wm. N. Van Patten, M. D., Seattle.

Appropriations for biennial period ending Mar. 31, 1921:

Salaries.....	\$42,400
Supplies, material, and service.....	24,715
Venereal-disease control work.....	25,000
	92,115

¹Full-time officer.

WASHINGTON—Continued.

Publication issued by health department:
Biennial report.
Fiscal year ends Mar. 31.

WEST VIRGINIA.

Public health council:
S. L. Jepson, M. D., commissioner of health,
Charleston.
J. L. Pyle, M. D., Chester.
Hubert E. Gaynor, M. D., Parkersburg.
H. E. Sloan, M. D., Clarksburg.
W. T. Henshaw, M. D., Martinsburg.
Edward H. Thompson, Bluefield.
Vincent T. Churchman, M. D., president,
Charleston.

Executive health officer:
S. L. Jepson, M. D., commissioner of health,
Charleston.

Division of preventable diseases:
Carl F. Raver, M. D., B. S., M. P. H., director,
Charleston.

Division of sanitary engineering:
Mayo Tolman, B. S., director, Charleston.

Division of vital statistics:

Hygienic laboratory:

Chas. E. Gabel, Ph. D.

Division of child welfare:

Mrs. Jean T. Dillon, director.

Appropriations for fiscal year ending June 30, 1921:

For general use.....	\$32,860
Salary of commissioner.....	4,800
Office rent.....	1,680

39,340

Other sources of revenue:

Fees from granting certificates to practice medicine.

Fees from laboratory work for private individuals.

Publications issued by health department:

Quarterly bulletin.

Annual report.

WISCONSIN.

Board of health:

W. F. Whyte, M. D., president, Madison.

C. A. Harper, M. D., State health officer,
Madison.

E. S. Hayes, M. D., Eau Claire.

C. H. Sutherland, M. D., Janesville.

WISCONSIN—Continued.

Board of health—Continued.

C. A. Richards, M. D., Rhinelander.

Otho Fiedler, M. D., Sheboygan.

J. M. Furstman, M. D., La Crosse.

Executive health officer:

C. A. Harper, M. D., State health officer,
Madison.

Division of general administration:

C. A. Harper, M. D., director, Madison.

Bureau of vital statistics:

L. W. Hutchcroft, chief statistician, Madison.

Bureau of education:

Louis W. Bridgman, chief clerk, Madison.

Laboratory of hygiene:

W. D. Stovall, M. D., bacteriologist and director,
Madison.

Appropriations for the fiscal year ending June 30, 1920:

General administration.....	\$50,000
Emergency appropriation for epidemics.....	7,500
Branch laboratory and State cooperative laboratories.....	7,950
Prevention of infantile blindness.....	1,500
Veneral disease control work.....	25,000
Licensing of embalmers, hotels and restaurants, plumbers and barbers....	40,041
	<u>131,991</u>

Publications issued by health department:

Quarterly bulletin.

Biennial report.

WYOMING.

Board of health:

Albert B. Tonkin, M. D., president, Riverton.

Fred A. Hodson, M. D., vice president, Sheridan.

C. Y. Beard, M. D., secretary, Cheyenne.

C. Dana Carter, M. D., Thermopolis.

Edw. S. Lauzer, M. D., Rock Springs.

Executive health officer:

C. Y. Beard, M. D., secretary State board of health, Cheyenne.

Appropriations for biennial period ending Mar. 31, 1921:

State board of health.....	\$10,000
Vital statistics.....	2,000
	<u>12,000</u>

Publication issued by health department:

Biennial report.

¹Full-time officer.

DEATHS DURING WEEK ENDED JULY 12, 1919, IN CITIES.

From the "Weekly Health Index," July 15, 1919, issued by the Bureau of the Census, Department of Commerce.

Deaths from all causes in certain large cities of the United States, during the week ended July 12, 1919, infant mortality (per cent), annual death rates,¹ and comparison with corresponding week of preceding years.

City.	Population July 1, 1918, estimated.	Week ended July 12, 1919.		Average annual death rate per 1,000. ²	Per cent of deaths under 1 year.	
		Total deaths.	Death rate. ¹		Week ended July 12, 1919.	Previous year or years. ²
Albany, N. Y.	112,565	31	14.4	C 15.3	6.5	C 3.0
Atlanta, Ga.	201,732	63	16.3	C 12.9	12.7	C 20.0
Baltimore, Md.	366,981	274	21.3	A 16.3	27.7	A 23.9
Birmingham, Ala.	197,670	74	19.5	A 16.9	13.5	A 14.6
Boston, Mass.	785,245	218	14.5	A 13.6	17.0	A 16.1
Buffalo, N. Y.	473,229	109	12.0	C 14.0	22.0	C 18.1
Cambridge, Mass.	111,432	27	12.6	A 10.4	18.5	A 15.6
Chicago, Ill.	2,586,681	517	10.4	A 12.2	14.3	A 18.1
Cincinnati, Ohio.	418,022	107	13.3	C 10.4	8.4	C 9.6
Cleveland, Ohio.	810,306	161	10.4	C 9.5	14.9	C 19.0
Columbus, Ohio.	225,296	58	13.4	C 13.7	10.3	C 10.2
Dayton, Ohio.	130,655	37	14.8	C 10.8	18.9	C 11.1
Denver, Colo.		62			9.7	
Fall River, Mass.	128,392	34	13.8	C 19.1	14.7	C 31.9
Grand Rapids, Mich.	135,450	29	11.2	C 9.2	20.7	C 8.3
Indianapolis, Ind.	290,389	80	14.4	C 10.6	17.5	C 11.9
Jersey City, N. J.	318,770	72	11.8	C 11.1	22.2	C 19.1
Los Angeles, Calif.	568,495	121	11.1	A 11.2	13.2	A 11.4
Louisville, Ky.	242,707	85	18.3	C 15.5	12.9	C 11.1
Lowell, Mass.	109,081	26	12.4	A 12.0	26.9	A 27.4
Memphis, Tenn.	154,759	59	19.9	C 13.8	27.1	C 12.2
Milwaukee, Wis.	453,481	86	9.9	A 10.3	11.6	A 18.2
Minneapolis, Minn.	383,442	81	11.0	C 8.8	8.6	C 15.4
Nashville, Tenn.	119,215	35	15.3	C 21.0	14.3	C 8.3
Newark, N. J.	428,684	75	9.1	C 13.4	22.7	C 20.0
New Haven, Conn.	154,865	29	9.8	C 14.8	20.7	C 13.6
New Orleans, La.	382,273	140	19.1	A 19.7	14.3	A 10.9
New York, N. Y.	5,215,879	1,267	12.7	C 11.4	16.6	C 14.7
Oakland, Calif.	214,206	60	14.6	A 9.6	5.0	A 8.0
Philadelphia, Pa.	1,761,371	528	15.6	A 13.6	15.5	A 19.0
Pittsburgh, Pa.	593,303	148	13.0	C 14.9	22.3	C 22.9
Portland, Oreg.		58			10.3	C 15.6
Providence, R. I.	263,613	52	10.3	C 12.3	15.4	C 21.0
Richmond, Va.	160,719	61	19.8	C 20.4	34.4	C 22.2
Rochester, N. Y.	304,856	51	10.0	C 10.2	5.9	C 11.5
St. Louis, Mo.	779,951	206	13.8	C 10.7	11.7	C 14.4
St. Paul, Minn.	267,699	38	7.7	C 10.7	15.8	C 13.2
San Francisco, Calif.	478,530	114	12.4	C 12.2	5.3	C 6.2
Seattle, Wash.		46			4.3	A 11.9
Spokane, Wash.		13			15.4	C 4.8
Syracuse, N. Y.	161,404	37	12.0	C 15.2	18.9	C 17.0
Toledo, Ohio.	262,234	44	8.7	A 11.2	9.1	A 13.1
Washington, D. C.	401,681	109	14.1	A 14.6	16.5	A 18.1
Worcester, Mass.	173,650	40	12.0	C 8.4	15.0	C 25.0

¹ Annual rates per 1,000 estimated population.

² "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1918.

³ Population estimated as of July 1, 1919.

⁴ Data are based on statistics of 1915, 1916, and 1917.

Summary of information received by telegraph from industrial insurance companies for week ended July 5, 1919.

Policies in force.....	40,472,521
Number of death claims.....	7,815
Death claims per 1,000 policies in force, annual rate.....	10.1

GEORGIA—continued.		Cases.
Dysentery (bacillary).....		6
German measles.....		1
Gonorrhoea.....		252
Hookworm.....		2
Influenza.....		4
Malaria.....		68
Measles.....		6
Mumps.....		10
Paratyphoid fever.....		4
Pneumonia (acute lobar).....		7
Septic sore throat.....		6
Smallpox.....		16
Syphilis.....		61
Tuberculosis (pulmonary).....		17
Tuberculosis (other than pulmonary).....		1
Typhoid fever.....		74
Whooping cough.....		11
ILLINOIS.		
Chancroid:		
State.....		17
Diphtheria:		
Chicago.....		95
Johnson County—Burnside Township.....		4
State.....		12
Gonorrhoea:		
State.....		190
Meningitis:		
Chicago.....		2
Poliomyelitis:		
Chicago.....		6
Galesburg.....		1
Mercer County—Preemption Township.....		1
Mothersville.....		1
Scarlet fever:		
Chicago.....		22
Grafton.....		4
State.....		11
Small-pox:		
Thebes.....		5
Sullivan.....		4
Anna.....		3
Vermilion County—Jamaica Township.....		4
Dixon.....		2
State.....		5
Syphilis:		
State.....		153
Typhoid fever:		
Waukegan.....		2
Joliet.....		2
State.....		13
INDIANA.		
Chancroid:		
State.....		2
Diphtheria:		
Dearborn County.....		1
Grant County.....		1
Hamilton County.....		1
Lake County.....		1
Madison County.....		1
Gonorrhoea:		
State.....		72
Rabies in animals:		
Madison County.....		1
Vigo County.....		1

INDIANA—continued.		Cases.
Typhoid fever:		
Hamilton County.....		1
Marion County.....		2
Spencer County.....		2
Sullivan County.....		1
Tipton County.....		1
Syphilis:		
State.....		57
IOWA.		
Cerebrospinal meningitis:		
Dysart.....		1
Chancroid:		
State.....		3
Diphtheria:		
Davenport.....		1
Des Moines.....		1
Dubuque.....		1
Gonorrhoea:		
State.....		51
Mumps:		
Dubuque.....		1
Scarlet fever:		
Boone.....		1
Burlington.....		1
Davenport.....		1
Dallas County.....		1
Smallpox:		
Davenport.....		3
Des Moines.....		1
Masen City.....		2
Ottumwa.....		1
Scarsboro.....		1
Washington.....		1
Calhoun County.....		1
Greene County.....		1
Warren County.....		4
Syphilis:		
State.....		15
KANSAS.		
Diphtheria;		
State.....		18
Influenza:		
State.....		2
Meningitis:		
Winfield.....		1
Manhattan.....		1
Scarlet fever:		
State.....		19
Smallpox:		
State.....		27
LOUISIANA.		
Chancroid.....		45
Diphtheria.....		4
Gonorrhoea.....		177
Influenza.....		5
Pellagra.....		13
Smallpox.....		3
Syphilis.....		126
Typhoid fever.....		50

MAINE.		NEW YORK—continued.	
	Cases.		Cases.
Chicken pox:		Scarlet fever:	
State	7	State	70
Diphtheria:		Smallpox:	
Union	1	Worcester	6
Rumford	1	Westford	2
German measles:		Decatur	1
Kineo	1	Schenectady	1
Gonorrhoea:		Interlaken	1
State	29	Syphilis:	
Measles:		State (voluntary reports)	118
State	3	Typhoid fever:	
Mumps:		State	36
State	3	Whooping cough:	
Scarlet fever:		State	148
Portland	9		
Rockland	1	NORTH CAROLINA.	
Franklin	1	Balanitis	1
South Portland	1	Chancroid	6
Smallpox:		Chicken pox	5
Paris	9	Cholera infantum	1
Pittston	7	Diphtheria	10
Auburn	3	Dysentery (bacillary)	4
Lewiston	5	Epidemic meningitis	1
Syphilis:		Gonorrhoea	121
State	19	Measles	55
Tuberculosis:		Paratyphoid fever	2
State	29	Pneumonia (broncho)	2
Typhoid fever:		Pneumonia (lobar)	3
Portland	1	Scarlet fever	8
Saco	1	Septic sore throat	1
Westbrook	2	Smallpox	30
Whooping cough:		Syphilis	67
South Portland	1	Typhoid fever	184
Portland	1	Whooping cough	131
South Berwick	2		
Bath	2	OHIO.	
Greenville	3	Diphtheria:	
Freeport	9	Cincinnati	7
		Lethargic encephalitis:	
MASSACHUSETTS.		Akron	1
Whooping cough:		Scarlet fever:	
Worcester	15	Lima	13
Great Barrington	10	Cincinnati	13
Pittsfield	25	Smallpox:	
		Larue	29
NEW JERSEY.		Youngstown	21
Influenza	5	Toledo	10
Pneumonia	29	Avon	5
		Typhoid fever:	
NEW YORK.		Akron	7
(New York City not included.)			
Anthrax:		VIRGINIA.	
Amsterdam	1	Poliomyelitis:	
Cerebrospinal meningitis:		Hanover County	2
Albany	1	Smallpox:	
Cairo	1	Prince Edward County	1
Diphtheria:			
State	141	WASHINGTON.	
Gonorrhoea:		Mild smallpox prevalent throughout the State.	
State (voluntary reports)	21		
Influenza:		WEST VIRGINIA.	
State	4	Diphtheria:	
Measles:		Elkins	1
State	190	Fairmont	1
Pneumonia:		Huntington	1
State	24	Wheeling	1
		Measles:	
		State	3

WEST VIRGINIA—continued.

Scarlet fever:	Cases.
Huntington.....	2
Martinsburg.....	2
Wellsburg.....	1
Weston.....	1
Smallpox:	
Clarksburg.....	1
Grafton.....	1
Morgantown.....	2
Wheeling.....	1
Williamson.....	1

WEST VIRGINIA—continued.

Typhoid fever:	Cases.
Charleston.....	4
Elkins.....	2
Fairmont.....	1
Huntington.....	2
Keyser.....	1
Martinsburg.....	1
Moundsville.....	1
Phillippi.....	1
Wellsburg.....	2
Weston.....	1
Wheeling.....	4

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

Tables showing by counties the reported cases of cerebrospinal meningitis, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

This issue of the Public Health Reports contains the monthly State reports which were received during one week only. Reports from other States appear each week as received.

State.	Cerebrospinal meningitis.	Diphtheria.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
June, 1919:									
Illinois.....	12	407	1	3,142		12	289	432	62
Louisiana.....		28	110	55	53	3	23	90	193
Maryland.....	4	115	5	529	1	3	361	11	80
Montana.....		45		275			251	165	13
New York.....	35	2,068		2,265		8	731	10	137
Pennsylvania.....	10	930	1	4,823		10	602	22	201
West Virginia.....	5	47		291		2	127	276	121
Wisconsin.....	3	121		454		2	196	310	17

ANTHRAX.

Illinois and West Virginia, June, 1919.

During June one case of anthrax was reported in Illinois and one case was reported in West Virginia.

Lynn, Mass., and Philadelphia, Pa., Week Ended July 5, 1919.

During the week ended July 5, 1919, one case of anthrax was reported at Lynn, Mass., and one case and one death were reported at Philadelphia, Pa.

CEREBROSPINAL MENINGITIS.

State Reports for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Illinois:		New York—Continued.	
Cook County—		Westchester County—	
Chicago.....	7	Yonkers.....	2
Park Ridge.....	1	Bedford (town).....	1
Kane County—		New York City.....	24
Aurora.....	1	Total.....	35
Elgin.....	2	Pennsylvania:	
Rock Island County—		Allegheny County.....	4
Rock Island.....	1	Berks County.....	1
Total.....	12	Luzerne County.....	1
Maryland:		Philadelphia County.....	3
Baltimore.....	4	Tioga County.....	1
New York:		Total.....	10
Dutchess County—		West Virginia:	
Poughkeepsie.....	1	Cabell County.....	2
Erie County—		Fayette County.....	1
Buffalo.....	2	Mercer County.....	1
Herkimer County—		Putnam County.....	1
Frankfort (town).....	1	Total.....	5
Montgomery County—		Wisconsin:	
Amsterdam.....	1	Brown County.....	1
Nassau County—		Fond du Lac County.....	1
Glen Cove.....	1	Milwaukee County.....	1
Washington County—		Total.....	3
Granville.....	1		
Wayne County—			
Rose (town).....	1		

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	1		Milwaukee, Wis.....	3	3
Boston, Mass.....	1		Nashville, Tenn.....	1	1
Buffalo, N. Y.....	1	1	Newburyport, Mass.....	1	1
Cambridge, Mass.....	1		New York, N. Y.....	6	2
Charleston, W. Va.....		1	Paterson, N. J.....	1	1
Cincinnati, Ohio.....		1	Philadelphia, Pa.....	1	1
Haverhill, Mass.....	1	1	Providence, R. I.....		1
Kansas City, Mo.....	1	1	St. Louis, Mo.....	1	1
Lawrence, Mass.....	1		Scranton, Pa.....	1	1
McKeesport, Pa.....	1		Wilmington, N. C.....		1

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 1643; Monthly summaries by States, p. 1646; and Weekly reports from cities, p. 1658.

LEPROSY.

Louisiana Report for June, 1919.

During June, 1919, two cases of leprosy were reported in Orleans Parish, and one case was reported in St. Martin Parish, La.

LETHARGIC ENCEPHALITIS.

Illinois and Louisiana Reports for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Illinois:		Illinois—Continued.	
Cook County—		Lake County—	
Chicago.....	2	Zion City.....	1
Jersey County—		Total.....	4
Jersey Township.....	1	Louisiana.....	1

MALARIA.

State Reports for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Illinois:		Louisiana—Continued.	
Union County—		St. James Parish.....	1
Jonesboro.....	1	St. John.....	1
Louisiana:		St. Landry Parish.....	8
Acadia Parish.....	3	St. Martin Parish.....	6
Allen Parish.....	4	St. Tammany Parish.....	10
Assumption Parish.....	1	Tensas Parish.....	1
Beauregard Parish.....	6	Terrebonne Parish.....	1
Bossier Parish.....	1	Vermilion Parish.....	6
Calcasieu Parish.....	1	Washington Parish.....	9
Cameron Parish.....	1	Webster Parish.....	1
Claiborne Parish.....	1	Winn Parish.....	1
Concordia Parish.....	4	Total.....	110
De Soto Parish.....	1	Maryland:	
East Baton Rouge Parish.....	3	Baltimore.....	1
East Carroll Parish.....	2	Anne Arundel County.....	1
East Feliciana Parish.....	1	Charles County—	
Evangeline Parish.....	3	Berry.....	1
Grant Parish.....	5	Bel Alton, R. D.....	1
Iberia Parish.....	1	Dorchester County—	
Iberville Parish.....	2	Taylor's Island.....	1
Lafayette Parish.....	1	Total.....	5
La Salle Parish.....	3	Pennsylvania:	
Lincoln Parish.....	1	Philadelphia County.....	1
Morehouse Parish.....	7		
Natchitoches Parish.....	2		
Rapides Parish.....	2		
St. Charles Parish.....	4		

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La.....	23	.....	New York, N. Y.....	1	.....
Dallas, Tex.....	1	.....	Philadelphia, Pa.....	1	.....
Little Rock, Ark.....	1	.....	Pine Bluff, Ark.....	4	.....
Milford, Mass.....	2	.....	Sacramento, Calif.....	1	.....

MEASLES.

See Telegraphic weekly reports from States, p. 1643; Monthly summaries by States, p. 1646; and Weekly reports from cities, p. 1658.

PELLAGRA.

Louisiana and Maryland Reports for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Louisiana:		Louisiana—Continued.	
Assumption Parish.....	1	Plaquemines Parish.....	1
Bienville Parish.....	1	Rapides Parish.....	3
Caddo Parish.....	2	Red River Parish.....	1
Catahoula Parish.....	1	Richland Parish.....	1
Claiborne Parish.....	1	Union Parish.....	2
Concordia Parish.....	7	Vernon Parish.....	1
De Soto Parish.....	7	West Feliciana Parish.....	1
East Baton Rouge Parish.....	1		
Franklin Parish.....	1		53
Jackson Parish.....	2	Maryland:	
La Salle Parish.....	1	Dorchester County—	
Morehouse Parish.....	15	Hoopersville.....	1
Orleans Parish.....	3		

PELLAGRA—Continued.

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La.....	1	.....	Los Angeles, Calif.....	1	.....
Atlanta, Ga.....	.....	1	Mobile, Ala.....	.....	3
Austin, Tex.....	1	.....	Nashville, Tenn.....	1	1
Baton Rouge, La.....	1	1	New Orleans, La.....	2	.....
Birmingham, Ala.....	2	.....	Raleigh, N. C.....	2	.....
Charleston, S. C.....	.....	2	Richmond, Va.....	1	2
Charlotte, N. C.....	.....	1	Savannah, Ga.....	.....	1
Concord, N. H.....	.....	1	Waco, Tex.....	3	.....
Dallas, Tex.....	3	.....	Wilmington, N. C.....	.....	3
Fort Worth, Tex.....	1	1			2

PLAGUE-INFECTED GROUND SQUIRRELS.

Alameda and Contra Costa Counties, Calif.

Four plague-infected ground squirrels were reported found in Alameda and Contra Costa Counties, Calif.; one each on June 20, 25, 27, and 30, 1919. Intensive hunting and poisoning operations are being carried on.

PNEUMONIA.

City Reports for Week Ended July 5, 1919.

Place.	Lobar.		All forms.		Place.	Lobar.		All forms.	
	Cases.	Deaths.	Cases.	Deaths.		Cases.	Deaths.	Cases.	Deaths.
Ann Arbor, Mich.....	1	.....	.....	.....	Los Angeles, Calif.....	5	1	5	2
Atlanta, Ga.....	.....	2	.....	.....	Lynn, Mass.....	1	2	.....	.....
Baltimore, Md.....	3	.....	.....	.....	Milwaukee, Wis.....	.....	3	.....	.....
Baton Rouge, La.....	.....	.....	1	1	Minneapolis, Minn.....	.....	1	.....	.....
Bayonne, N. J.....	1	.....	.....	.....	Mobile, Ala.....	.....	1	.....	.....
Birmingham, Ala.....	.....	1	.....	.....	Newark, N. J.....	11	.....	.....	.....
Boston, Mass.....	9	2	.....	.....	New Haven, Conn.....	.....	.....	.....	3
Bridgeport, Conn.....	.....	1	.....	.....	New Orleans, La.....	2	3	.....	.....
Brunswick, Ga.....	1	1	.....	.....	New York, N. Y.....	.....	.....	6	68
Cambridge, Mass.....	2	.....	.....	.....	Norwalk, Conn.....	.....	1	.....	.....
Charlotte, N. C.....	.....	1	.....	.....	Oak Park, Ill.....	.....	1	.....	.....
Chicago, Ill.....	.....	.....	72	30	Oklahoma City, Okla.....	.....	3	.....	3
Cincinnati, Ohio.....	2	1	.....	.....	Olean, N. Y.....	.....	.....	.....	1
Cleveland, Ohio.....	.....	.....	.....	.....	Omaha, Nebr.....	.....	.....	.....	2
Clinton, Mass.....	1	.....	.....	.....	Ossining, N. Y.....	1	.....	.....	.....
Dayton, Ohio.....	1	.....	.....	.....	Paterson, N. J.....	.....	.....	4	.....
Denver, Colo.....	.....	.....	.....	1	Philadelphia, Pa.....	24	9	.....	.....
Detroit, Mich.....	2	2	2	5	Portland, Ore.....	.....	2	.....	.....
Dubuque, Iowa.....	.....	1	.....	.....	Portsmouth, Va.....	.....	2	.....	.....
Duluth, Minn.....	.....	1	.....	.....	Providence, R. I.....	.....	1	.....	.....
Elizabeth, N. J.....	.....	1	.....	.....	Racine, Wis.....	.....	1	.....	.....
Elmira, N. Y.....	.....	.....	.....	2	Richmond, Va.....	.....	2	.....	.....
Everett, Mass.....	.....	1	.....	.....	Rockford, Ill.....	.....	1	.....	.....
Fort Worth, Tex.....	4	4	.....	.....	Rome, N. Y.....	1	.....	.....	.....
Freemont, Nebr.....	.....	.....	.....	1	Sacramento, Calif.....	.....	1	.....	.....
Galveston, Tex.....	.....	.....	.....	1	St. Paul, Minn.....	.....	1	.....	.....
Greensboro, N. C.....	.....	1	.....	.....	Salem, Mass.....	2	.....	.....	.....
Hackensack, N. J.....	1	1	.....	.....	San Diego, Calif.....	.....	.....	.....	1
Hammond, Ind.....	.....	.....	.....	1	Savannah, Ga.....	.....	1	.....	.....
Hartford, Conn.....	.....	1	.....	.....	Springfield, Ohio.....	.....	1	.....	.....
Haverhill, Mass.....	1	1	.....	.....	Syracuse, N. Y.....	.....	2	.....	.....
Hoboken, N. J.....	.....	3	.....	.....	Tacoma, Wash.....	.....	.....	3	.....
Indianapolis, Ind.....	.....	.....	.....	2	Toledo, Ohio.....	.....	1	.....	.....
Janesville, Wis.....	.....	2	.....	.....	Troy, N. Y.....	.....	1	.....	.....
Kansas City, Mo.....	.....	.....	1	4	Washington, D. C.....	.....	12	.....	.....
Lawrence, Mass.....	1	1	.....	.....	Watertown, Mass.....	1	.....	.....	.....
Leominster, Mass.....	1	.....	.....	.....	White Plains, N. Y.....	.....	1	.....	.....
Logansport, Ind.....	.....	.....	.....	1					

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Illinois:		New York—Continued.	
Cook County—		Wayne County—	
Chicago.....	5	Ontario (town).....	1
Putnam County—		Westchester County—	
Standard.....	4	Mount Vernon.....	1
St. Clair County—		New York City.....	3
Belleville.....	2	Total.....	8
East St. Louis.....	1		
Total.....	12	Pennsylvania:	
Louisiana:		Allegheny County.....	1
Orleans Parish.....	1	Cambria County.....	1
St. Landry Parish.....	1	Fayette County.....	1
St. Mary Parish.....	1	Huntingdon County.....	2
Total.....	3	Lancaster County.....	1
Maryland:		Philadelphia County.....	2
Baltimore.....	2	Schuylkill County.....	1
Harford County—		Washington County.....	1
Castleton.....	1	Total.....	10
Total.....	3	West Virginia:	
New York:		Mercer County.....	2
Cayuga County—		Wisconsin:	
Auburn.....	1	Eau Claire County.....	1
Oneida County—		Milwaukee County.....	1
Utica.....	1	Total.....	2
Oswego County—			
Oswego.....	1		

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Bethlehem, Pa.....	1	.....	Joplin, Mo.....	1	.....
Birmingham, Ala.....	1	.....	Milwaukee, Wis.....	1	.....
Charleston, S. C.....	1	.....	New York, N. Y.....	1	1
Chicago, Ill.....	1	.....	Pittsburgh, Pa.....	1	.....
Detroit, Mich.....	1	.....	Pontiac, Mich.....	5	.....

RABIES IN ANIMALS.

Independence, Mo., and Niagara Falls, N. Y.

During the week ended July 5, 1919, one case of rabies in animals was reported at Independence, Mo., and one case was reported at Niagara Falls, N. Y.

RABIES IN MAN.

Baltimore, Md., and New York, N. Y.

During the week ended July 5, 1919, one death from rabies was reported at Baltimore, Md., and one at New York, N. Y.

ROCKY MOUNTAIN SPOTTED OR TICK FEVER.

Montana Report for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Montana:		Montana—Continued.	
Fergus County—		Ravalli County—	
Grass Range.....	2	Hamilton (R. D.).....	1
Missoula County—		Total.....	4
Missoula.....	1		

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 1643; Monthly summaries by States, p. 1646; and Weekly reports from cities, p. 1658.

SMALLPOX.

State Reports for June, 1919—Vaccination Histories.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Maryland:						
Baltimore County—						
St. Helena.....	1				1	
Caroline County—						
Federalsburg.....	2				2	
Dorchester County—						
Cardtown.....	1				1	
Cambridge.....	1				1	
Prince Georges County—						
Friendly.....	5				5	
Somerset County—						
Crisfield.....	1				1	
Total.....	11				11	
Montana:						
Blaine County—						
Fort Belknap.....	6				6	
Broadwater County—						
Townsend.....	1				1	
Cascade County—						
Great Falls.....	26			1	25	
Chouteau County—						
Eagle Butte.....	10				10	
Geraldine.....	1				1	
Custer County—						
Miles City.....	7				7	
Dawson County—						
Glendive.....	2				2	
Deer Lodge County—						
Anaconda.....	1				1	
Fergus County—						
Denham.....	1				1	
Grass Range.....	1				1	
Lewistown.....	10				10	
Stanford.....	1				1	
Flathead County—						
Creston.....	1				1	
Whitefish.....	1				1	
Gallatin County—						
Bozeman (4 R. D.).....	5				5	
Hill County—						
Havre.....	3				3	
Lewis and Clark County—						
Marysville.....	46				46	
Missoula County—						
Missoula (2 R. D.).....	2				2	

SMALLPOX—Continued.

State Reports for June, 1919—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Montana—Continued.						
Musselshell County—						
Roundup.....	1				1	
Park County—						
Livingston.....	1				1	
Sheridan County—						
Medicine Lake.....	1				1	
Outlook.....	4				4	
Silver Bow County—						
Butte.....	3				3	
Walkerville.....	1				1	
Treasure County—						
Big Horn.....	3				3	
Hysham.....	2				2	
Valley County—						
Opheim.....	1				1	
Wheatland County—						
Harlowton.....	20				20	
Yellowstone County—						
Billings.....	3				3	
Total.....	165			1	164	
New York:						
Erie County—						
Buffalo.....	1					1
North Collins (town).....	1				1	
Oswego County—						
Oswego (town).....	2		1		1	
Otsego County—						
Oneonta.....	1					1
Oneonta (town).....	1				1	
Tioga County—						
Candor (town).....	1		1			2
Spencer (town).....	2					1
New York City.....	1					
Total.....	10			2	3	5
Wisconsin:						
Ashland County.....	2				1	1
Barron County.....	10		5	2		3
Brown County.....	2					2
Clark County.....	11		3	7	1	
Columbia County.....	14				2	12
Dane County.....	9		7		2	
Dodge County.....	1				1	
Douglas County.....	21		4	2	15	
Dunn County.....	1				1	
Fond du Lac County.....	27			1	15	11
Grant County.....	1					1
Green County.....	1					1
Green Lake County.....	2				2	
Jefferson County.....	9			1	6	2
La Crosse County.....	1				1	
Marathon County.....	3				3	
Marinette County.....	7				7	
Milwaukee County.....	56					56
Outagamie County.....	4					4
Portage County.....	11				9	2
Price County.....	2				2	
Racine County.....	48		45		2	1
Richland County.....	3		2		1	
Rock County.....	1					1
Taylor County.....	7					7
Waupaca County.....	4		1	1	2	
Waushara County.....	11		1		10	
Winnebago County.....	29			6	6	17
Wood County.....	12			1	9	2
Total.....	310		68	21	98	123

SMALLPOX—Continued.

State Reports for June, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Illinois:			Illinois—Continued.		
Adams County—			Montgomery County—		
Camp Point.....	2		Witt.....	8	
Alexander County—			Morgan County—		
Tamm.....	1		Jacksonville.....	8	
Champaign County—			Meredosia precinct.....	2	
Champaign.....	1		Moultrie County—		
Colfax Township.....	1		Sullivan.....	21	
Christian County—			Sullivan Township.....	1	
Pana.....	2		Peoria County—		
Clay County—			Averyville.....	1	
Stanford.....	1		Peoria.....	26	
Coles County—			Richland County—		
Charleston.....	1		Noble.....	2	
Cook County—			Olney.....	3	
Chicago.....	7		Rock Island County—		
Crawford County—			Coal Valley.....	1	
Montgomery Township.....	1		Coal Valley Township.....	3	
Cumberland County—			Fast Moline.....	2	
Greenup Township.....	1		Rock Island.....	35	
Douglas County—			Rural Township.....	2	
Murdock Township.....	1		Saline County—		
Edger County—			Brushy Township.....	3	
Buck Township.....	2		Eldorado.....	6	
Franklin County—			Sangamon County—		
Frankfort Heights.....	1		Springfield.....	1	
Fulton County—			Tazewell County—		
Canton.....	1		Fast Peoria.....	3	
Canton Township.....	5		Fondulac Township.....	2	
Greene County—			Groveland Township.....	17	
Athensville Township.....	1		Little Mackinaw		
Walkerville Township.....	5		Township.....	1	
White Hall.....	4		Pekin.....	32	
White Hall Township.....	1		Union County—		
Hamilton County—			Anna.....	46	
McLeansboro.....	16		Jonesboro.....	2	
Henry County—			Vermilion County—		
Oxford Township.....	1		Butler Township.....	1	
Iroquois County—			Fairmont.....	6	
Fountain Creek Town-			Grant Township.....	1	
ship.....	2		Rankin.....	8	
Jasper County—			Warren County—		
Grandville Township.....	29		Monmouth.....	2	
Jo Daviess County—			White County—		
Galena.....	1		Indian Creek Town-		
Kankakee County—			ship.....	5	
Momence.....	6		Maunie.....	1	
Knox County—			Norris City.....	4	
East Galesburg.....	2		Whiteside County—		
Galesburg.....	13		Rock Falls.....	1	
Henderson.....	1		Will County—		
Henderson Township.....	1		Joliet.....	1	
Sparta Township.....	1		Joliet Township.....	1	
Lake County—			Williamson County—		
Zion City.....	1		Herrin.....	2	
La Salle County—			Winnebago County—		
Oglesby.....	1		Rockford.....	13	
Ottawa.....	3		Woodford County—		
Livingston County—			Benson.....	1	
Fairbury.....	1				
Macoupin County—			Total.....	432	
Sawyer ville.....	12				
Madison County—			Louisiana:		
Granite City.....	5		Acadia Parish.....	1	
Wood River Town-			Allen Parish.....	7	
ship.....	1		Beauregard Parish.....	4	
Marion County—			Caddo Parish.....	13	
Haines Township.....	1		Calcasieu Parish.....	5	
Kinnmundy.....	1		Caldwell Parish.....	1	
McHenry County—			Claiborne Parish.....	1	
Crystal Lake.....	1		East Baton Rouge Parish.....	1	
McLean County—			Iberia Parish.....	1	
Bloomington.....	1		Iberville Parish.....	10	
Normal.....	2		Lafayette Parish.....	7	
White Oak Township.....	23		Madison Parish.....	1	
Menard County—			Orleans Parish.....	13	
Petersburg.....	2		Rapides Parish.....	6	

SMALLPOX—Continued.

State Reports for June, 1919—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Louisiana—Continued.			West Virginia:		
Richland Parish.....	1		Barbour County.....	9	
St. Charles Parish.....	1		Boone County.....	4	
St. James Parish.....	1		Brooke County.....	5	
Vermilion Parish.....	3		Fayette County.....	49	
Vernon Parish.....	12		Harrison County.....	27	
Winn Parish.....	1		Kanawha County.....	8	
Total.....	90		Lewis County.....	17	
Pennsylvania:			Logan County.....	33	
Allegheny County.....	5		McDowell County.....	12	
Delaware County.....	1		Marshall County.....	1	
Erie County.....	1		Mercer County.....	17	
Fayette County.....	1		Mineral County.....	1	
Franklin County.....	3		Mingo County.....	12	
Lackawanna County.....	4		Monongalia County.....	30	
Lawrence County.....	1		Ohio County.....	4	
Mercer County.....	1		Preston County.....	2	
Philadelphia County.....	2		Raleigh County.....	4	
Venango County.....	2		Randolph County.....	1	
Wayne County.....	1		Ritchie County.....	6	
Total.....	22		Roane County.....	1	
			Summers County.....	19	
			Taylor County.....	12	
			Wyoming County.....	2	
			Total.....	276	

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.....	1		Marquette, Mich.....	2	
Atlanta, Ga.....	10		Middletown, Ohio.....	2	
Austin, Tex.....	1		Milwaukee, Wis.....	4	
Beatrice, Nebr.....	1		Minneapolis, Minn.....	9	
Bedford, Ind.....	1		Moline, Ill.....	2	
Boise, Idaho.....	3		Morgantown, W. Va.....	1	
Butte, Mont.....	1		New Orleans, La.....	3	
Cape Girardeau, Mo.....	1		Norfolk, Va.....	1	
Carbondale, Pa.....	1		Oak Park, Ill.....	2	
Cedar Rapids, Iowa.....	1		Ogden, Utah.....	1	
Chanute, Kans.....	1		Oklahoma City, Okla.....	2	
Chicago, Ill.....	1		Omaha, Nebr.....	11	
Columbia, Ga.....	2		Oshkosh, Wis.....	3	
Covington, Ky.....	1		Pekin, Ill.....	2	
Danville, Va.....	1		Peoria, Ill.....	2	
Davenport, Iowa.....	3		Pocatello, Idaho.....	2	
Denver, Colo.....	4		Portland, Oreg.....	43	
Duluth, Minn.....	2		Portsmouth, Ohio.....	1	
Everett, Wash.....	8		Quincy, Mass.....	2	
Fond du Lac, Wis.....	3		Racine, Wis.....	5	
Fort Worth, Tex.....	1		Roanoke, Va.....	1	
Grand Rapids, Mich.....	1		Rock Island, Ill.....	2	
Green Bay, Wis.....	1		Rome, Ga.....	5	
Hoquiam, Wash.....	8		St. Cloud, Minn.....	1	
Houston, Tex.....	3		St. Joseph, Mo.....	4	
Independence, Mo.....	1		St. Paul, Minn.....	4	
Indianapolis, Ind.....	5		Salt Lake City, Utah.....	3	
Kalamazoo, Mich.....	2		Spokane, Wash.....	3	
Kansas City, Kans.....	1		Springfield, Ohio.....	1	
Kansas City, Mo.....	1		Steubenville, Ohio.....	1	
Knoxville, Tenn.....	1		Stockton, Calif.....	3	
Kokomo, Ind.....	2		Superior, Wis.....	1	
La Fayette, Ind.....	1		Tacoma, Wash.....	2	
Lakewood, Ohio.....	1		Toledo, Ohio.....	3	
Lincoln, Nebr.....	5		Topeka, Kans.....	2	
Little Rock, Ark.....	1		Walla Walla, Wash.....	1	
Logansport, Ind.....	4		Wichita, Kans.....	9	
Los Angeles, Calif.....	1		Winston-Salem, N. C.....	1	
Macon, Ga.....	1		Yakima, Wash.....	6	
Marinette, Wis.....	1		Youngstown, Ohio.....	10	

TETANUS.

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill.....	1	2	Quincy, Ill.....		1
New Orleans, La.....	1	1	Redlands, Calif.....	1	
New York, N. Y.....		1	San Bernardino, Calif.....	1	1

TRICHINOSIS.

Oakland, Calif., Week Ended July 5, 1919.

During the week ended July 5, 1919, seven cases of trichinosis were reported at Oakland, Calif.

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 1643, and Weekly reports from cities, p. 1658.

TYPHOID FEVER.

State Reports for June, 1919.

Place.	New cases reported.	Place.	New cases reported.
Illinois:		Louisiana:	
Adams County—		Acadia Parish.....	3
Quincy.....	1	Allen Parish.....	3
Alexander County—		Ascension Parish.....	5
Cairo.....	1	Assumption Parish.....	5
Champaign County—		Beauregard Parish.....	1
Urbana.....	1	Bienville Parish.....	5
Cook County—		Bossier Parish.....	4
Chicago.....	15	Caddo Parish.....	2
Worth Township.....	1	Calcasieu Parish.....	4
Grundy County—		Claiborne Parish.....	2
South Wilmington.....	2	Concordia Parish.....	1
Jo Daviess County—		De Soto Parish.....	2
Galena.....	2	East Baton Rouge Parish.....	7
Kane County—		East Feliciana Parish.....	1
Aurora.....	1	Franklin Parish.....	6
Elgin.....	1	Iberia Parish.....	4
Knox County—		Iberville Parish.....	2
Galesburg.....	1	Jefferson Parish.....	41
Lake County—		Lafourche Parish.....	8
North Chicago.....	2	La Salle Parish.....	1
La Salle County—		Lincoln Parish.....	3
Richland Township.....	1	Natchitoches Parish.....	1
Streator.....	1	Orleans Parish.....	43
Madison County—		Plaquemines Parish.....	2
Highland.....	1	Pointe Coupee Parish.....	3
Morgan County—		Rapides Parish.....	5
Jacksonville.....	2	St. Bernard Parish.....	1
Peoria County—		St. Charles Parish.....	1
Peoria.....	1	St. James Parish.....	3
Richland County—		St. John Parish.....	3
Olney.....	1	St. Landry Parish.....	1
Rock Island County—		St. Martin Parish.....	1
East Moline.....	2	St. Mary Parish.....	1
Rock Island.....	1	St. Tammany Parish.....	6
Saline County—		Tangipahoa Parish.....	2
Harrisburg.....	2	Union Parish.....	1
Mountain Township.....	1	Vermillion Parish.....	4
Tazewell County—		Vernon Parish.....	3
Pekin.....	2	Washington Parish.....	1
Wabash County—		Webster Parish.....	1
Mt. Carmel.....	16		
Will County—		Total.....	193
Joliet.....	1	Maryland:	
Joliet Township.....	1	Baltimore.....	19
Winnebago County—		Anne Arundel County—	
Rockford.....	1	Marley, R. D.....	1
		Waterbury.....	1
Total.....	62	Davidsonville.....	1
		Camp Meade.....	1

TYPHOID FEVER—Continued.

State Reports for June, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
Maryland—Continued.		Pennsylvania:	
Baltimore County—		Adams County.....	3
Woodsburg, R. D.....	1	Allegheny County.....	15
Towson.....	1	Armstrong County.....	2
Pleasant Hill.....	1	Beaver County.....	2
Woodlawn.....	1	Bedford County.....	1
Calvert County—		Berks County.....	6
Olivet.....	1	Blair County.....	2
Chesapeake Beach.....	1	Bucks County.....	8
Huntingtown.....	1	Butler County.....	2
Sunderland.....	2	Center County.....	1
Carroll County—		Chester County.....	6
Berrett.....	1	Clarion County.....	1
Cecil County—		Columbia County.....	2
Rowlandville.....	1	Cumberland County.....	3
Rising Sun.....	1	Dauphin County.....	5
Cherry Hill, R. D.....	1	Delaware County.....	5
Port Deposit.....	1	Erie County.....	4
Elkton.....	1	Fayette County.....	7
Providence, R. D.....	1	Franklin County.....	4
Charles County—		Huntingdon County.....	7
Bryantown, R. D.....	1	Indiana County.....	2
Dorchester County—		Jefferson County.....	3
Cambridge.....	2	Juniata County.....	2
Bishops Head.....	1	Lancaster County.....	2
Frederick County—		Lebanon County.....	3
Brunswick.....	2	Lehigh County.....	6
Centerville.....	1	Lycoming County.....	1
Libertytown.....	1	Mercer County.....	1
Harford County—		Mifflin County.....	1
Havre de Grace.....	3	Montgomery County.....	8
Kent County—		Montour County.....	2
Chestertown.....	3	Northampton County.....	1
Montgomery County—		Perry County.....	3
Gaithersburg, R. D.....	2	Philadelphia County.....	38
Cloppers.....	1	Schuylkill County.....	7
Prince Georges County—		Snyder County.....	3
Seat Pleasant.....	1	Somerset County.....	2
Queen Annes County—		Washington County.....	6
Centerville, R. D.....	1	Westmoreland County.....	17
Church Hill, R. D.....	1	York County.....	7
Somerset County—		Total.....	201
Mt. Vernon.....	1		
Crisfield.....	3	New York:	
Dames Quarter.....	1	Albany County—	
Greenwood.....	1	Albany.....	1
Talbot County—		Allegheny County—	
St. Michaels.....	1	Belfast (town).....	1
Washington County—		Broome County—	
Hagerstown.....	1	Johnson City.....	1
Bakersville.....	2	Cattaraugus County—	
Bakersville, R. D.....	2	Franklinville.....	1
Sharpsburg, R. D.....	1	Delavan.....	1
Halfway.....	1	Cayuga County—	
Grimes, R. D.....	1	Auburn.....	4
Fairplay, R. D.....	1	Chautauque County—	
Yarrowsburg.....	1	Jamestown.....	2
Tilghmanton, R. D.....	1	Chemung County—	
Wicomico County—		Elmira.....	4
Fruitland, R. D.....	1	Southport (town).....	1
Worcester County—		Columbia County—	
Pocomoke City.....	1	Hudson.....	1
Eden, R. D.....	1	Kinderhook (town).....	1
Total.....	80	Dutchess County—	
Montana:		Beacon.....	3
Cascade County—		Poughkeepsie.....	2
Great Falls.....	2	Poughkeepsie (town).....	1
Flathead County—		Erie County—	
Columbia Falls (R. D.).....	1	Buffalo.....	7
Ravalli County—		Lockawanna.....	2
Hamilton.....	8	Tonawanda.....	1
Treasure County—		Cheektowaga (town).....	1
Hysham.....	1	Concord (town).....	1
Wheatland County—		Buffalo State Hospital.....	2
Hedgessville (R. D.).....	1	Gowanda State Hospital.....	2
Total.....	13	Fulton County—	
		Gloversville.....	2

TYPHOID FEVER—Continued.

State Reports for June, 1919—Continued.

Place.	New cases reported.	Place.	New cases reported.
New York—Continued.		New York—Continued.	
Jefferson County—		Washington County—	
Clayton.....	1	Greenwich (town).....	1
Black River.....	1	Wayne County—	
Wilna (town).....	2	Lyons.....	2
Livingston County—		Westchester County—	
Livonia (town).....	3	White Plains.....	2
Madison County—		Ossining.....	1
Eaton (town).....	1	Portchester.....	1
Monroe County—		New York City.....	39
Rochester.....	1	Total.....	137
Nassau County—			
Long Beach.....	1	West Virginia:	
Niagara County—		Barbour County.....	1
Barker.....	1	Berkeley County.....	1
Oneida County—		Boone County.....	2
Roma.....	1	Braxton County.....	1
Onondaga County—		Brooke County.....	2
Syracuse.....	2	Cabell County.....	3
Skaneateles (town).....	1	Doddridge County.....	14
Ontario County—		Gilmer County.....	2
Holecomb.....	1	Greenbrier County.....	1
Orange County—		Hancock County.....	1
Newburgh.....	1	Hardy County.....	1
New Windsor (town).....	1	Harrison County.....	2
Otsego County—		Kanawha County.....	12
Schenevus.....	1	Lewis County.....	12
Cooperstown.....	3	Logan County.....	2
Rensselaer County—		McDowell County.....	6
Troy.....	3	Marion County.....	18
Pittstown (town).....	1	Mineral County.....	1
Rockland County—		Mingo County.....	2
Clarkstown (town).....	1	Monongalia County.....	2
St. Lawrence County—		Monroe County.....	6
Morristown (town).....	1	Nicholas County.....	6
Potsdam (town).....	1	Ohio County.....	5
Potsdam.....	1	Pocahontas County.....	2
Saratoga County—		Putnam County.....	2
Saratoga Springs.....	1	Randolph County.....	2
Schenectady County—		Roane County.....	1
Schenectady.....	2	Summers County.....	1
Schoharie County—		Tyler County.....	3
Cobleskill.....	2	Upshur County.....	3
Seward (town).....	2	Webster County.....	1
Steuben County—		Wetzel County.....	2
Corning.....	2	Wirt County.....	1
Corning (town).....	1	Total.....	121
Hornellsville (town).....	1		
Suffolk County—		Wisconsin:	
Ameyville.....	1	Forest County.....	6
Brookhaven (town).....	1	Jefferson County.....	1
Sullivan County—		Kenosha County.....	2
Rockland (town).....	2	Milwaukee County.....	6
Tioga County—		Racine County.....	1
Owego.....	1	Waukesha County.....	1
Tompkins County—		Total.....	17
Dryden.....	1		
Ulster County—			
Lloyd (town).....	1		
Warren County—			
Chester (town).....	1		

TYPHOID FEVER—Continued.

City Reports for Week Ended July 5, 1919.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La.	3		Leavenworth, Kans.	2	1
Atlanta, Ga.	3	1	Lima, Ohio.		1
Baltimore, Md.	3		Los Angeles, Calif.	11	
Baton Rouge, La.	3		Lynchburg, Va.	1	
Berkeley, Calif.	1		Lynn, Mass.	1	
Birmingham, Ala.	2	1	Mankato, Minn.	1	
Brunswick, Ga.	2		Martinsburg, W. Va.		2
Buffalo, N. Y.	1		Moline, Ill.	1	
Cambridge, Mass.	1		Morristown, N. J.	1	
Cape Girardeau, Mo.	1	1	Muscatine, Iowa.	3	
Centralia, Ill.	2		Nashville, Tenn.	1	
Charleston, S. C.	1		New Castle, Pa.	1	
Charleston, W. Va.	3	1	New Haven, Conn.	3	
Charlotte, N. C.	1		New Orleans, La.	11	1
Chelsea, Mass.	1		Newport, R. I.	1	
Chicago, Ill.	8	1	New York, N. Y.	12	2
Chillicothe, Ohio.	2		Norfolk, Va.	4	
Cincinnati, Ohio.	1	2	North Tonawanda, N. Y.	2	
Cleveland, Ohio.	6	1	Oakland, Calif.	1	1
Coatesville, Pa.	1		Oak Park, Ill.	1	
Columbia, S. C.	2		Oklahoma City, Okla.	1	
Columbus, Ohio.	4		Philadelphia, Pa.	17	
Covington, Ky.	3	1	Pittsburgh, Pa.	3	
Dallas, Tex.	3	1	Portland, Me.	1	
Detroit, Mich.	12		Portsmouth, Ohio.	1	
Dubuque, Iowa.	2		Portsmouth, Va.	3	
Durham, N. C.	3		Providence, R. I.		1
East Orange, N. J.	1		Quincy, Ill.	1	
Elmira, N. Y.	2		Raleigh, N. C.	1	
Everett, Mass.		1	Reading, Pa.	1	
Fall River, Mass.	1	1	Reno, Nev.	1	
Flint, Mich.	2		Richmond, Va.	2	
Fort Wayne, Ind.		1	Rome, Ga.	2	
Fort Worth, Tex.	1		Sacramento, Calif.	1	1
Hibbing, Minn.	1		Saginaw, Mich.		1
Highland Park, Mich.	3	1	St. Louis, Mo.	1	
Houston, Tex.	1		Salt Lake City, Utah.	1	
Indianapolis, Ind.	2	1	Savannah, Ga.	5	
Ithaca, N. Y.	1		Sharon, Pa.	1	
Kansas City, Kans.	1		Stockton, Calif.	3	
Kansas City, Mo.		1	Topeka, Kans.	3	
Knoxville, Tenn.	1		Washington, D. C.	3	
La Fayette, Ind.		1	Wheeling, W. Va.	1	
Lakewood, Ohio.	1		White Plains, N. Y.	1	
Lancaster, Ohio.		1	Wilkinsburg, Pa.	1	
Lancaster, Pa.	2		Wilmington, N. C.	1	
Lawrence, Mass.	3		Winston-Salem, N. C.	2	

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended July 5, 1919.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Adams, Mass.	14,406	3								1
Alameda, Calif.	28,433	5							1	
Alexandria, La.	16,232	4							4	1
Allentown, Pa.	65,109		7		5				2	
Alton, Ill.	23,783						1			
Altoona, Pa.	59,712		1							
Anderson, Ind.	24,220	8								2
Ann Arbor, Mich.	15,041	7					1			
Ansonia, Conn.	16,954	5							1	
Appleton, Wis.	18,005	4								
Arlington, Mass.	13,073	1					1			
Asbury Park, N. J.	14,629	4								
Ashtabula, Ohio.	22,008	4	1				1			
Atlanta, Ga.	196,144	42	1		1		3			2
Atlantic City, N. J.	59,515	11			7					2

DIPHThERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 5, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Attleboro, Mass.	19,776	3								
Auburn, N. Y.	37,823	8			3					1
Austin, Tex.	35,612	11								1
Bakersfield, Calif.	17,543	4								
Baltimore, Md.	594,637		15	1	6		26		33	26
Baton Rouge, La.	17,544	6	2							
Battle Creek, Mich.	30,159	1	8	1	5					
Bayonne, N. J.	72,204		1				2		2	
Beatrice, Nebr.	10,437	3			2					
Beaumont, Tex.	28,851	6								
Bedford, Ind.	10,913	2								
Beloit, Wis.	18,547	7	1							
Benton Harbor, Mich.	11,099	0			2					
Berkeley, Calif.	60,427	9								1
Berlin, N. H.	13,892	5								
Bethlehem, Pa.	14,353		1		2				1	
Beverly, Mass.	22,128	7								
Biddford, Me.	17,760	5								
Binghamton, N. Y.	54,894	17	2	1			1		4	3
Birmingham, Ala.	199,716	45			2				8	5
Bluefield, W. Va.	16,123			1						
Boise, Idaho	35,951	9								
Boston, Mass.	767,813	155	47	1	33		29		41	20
Braddock, Pa.	22,060		1				2			
Bradford, Pa.	14,544				1					
Brazil, Ind.	10,472	2	2		2				1	
Bridgeport, Conn.	124,724	34		2	7					1
Bristol, Conn.	16,318	2	1		5		2			
Brockton, Mass.	69,152	7	1		2					
Brunswick, Ga.	10,984	4							1	1
Buffalo, N. Y.	475,781	107	20	3	7		4		14	14
Burlington, Iowa	25,144	6					1			
Burlington, Vt.	21,802	7			1					
Butler, Pa.	28,677						2			
Butte, Mont.	44,057						8			
Cairo, Ill.	15,995	10			2					3
Cambridge, Mass.	114,293	28	3		2		1		4	5
Canton, Ohio	62,566	13								1
Carlisle, Pa.	10,795				4					
Centralia, Ill.	11,838	1								
Chambersburg, Pa.	12,475				10					
Chanute, Kans.	12,968	5								
Charleston, S. C.	61,041	18							1	1
Charleston, W. Va.	31,060	9					1			1
Charlotte, N. C.	40,759	17			1		1			
Chelsea, Mass.	48,405	10	1				1		2	
Chester, Pa.	41,857	4			1				3	
Chicago, Ill.	2,547,201	519	76	7	289	5	25	1	330	52
Chicopee, Mass.	29,950	5	1						1	1
Chillicothe, Ohio	15,625	6					3			
Cincinnati, Ohio	414,248	94	3	1	25		9		15	18
Cleveland, Ohio	692,259	130	6		35	1	6		25	9
Clinton, Mass.	13,075	0							1	
Cohoes, N. Y.	25,292	8								1
Colorado Springs, Colo.	38,965	10			1			1	4	3
Columbia, S. C.	35,165								1	
Columbus, Ga.	26,306	8			3				2	3
Columbus, Ohio	220,135	57	1		10				5	6
Concord, N. H.	22,858	7								
Covington, Ky.	59,623	14					1		2	3
Cranston, R. I.	26,773	4							4	1
Cumberland, Md.	26,686	6			2		9		2	1
Dallas, Tex.	129,738	25	2						1	2
Danbury, Conn.	22,931	6			1		1			
Danville, Va.	20,183						2	1		
Davenport, Iowa	49,618		1							
Dayton, Ohio	128,939	27			4		1		5	
Dedham, Mass.	10,618	0	2							
Denver, Colo.	268,439	60	4	3	13		5			12
Detroit, Mich.	619,648	175	33	5	59	3	24		32	12
Dover, N. H.	13,276	4								
Du Bois, Pa.	14,994		1				5			

1 Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 5, 1919—Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Duluth, Minn.	97,077	14	1		13		1		4	1
Durham, N. C.	26,160	5							1	
East Chicago, Ind.	30,286	3								
East Cleveland, Ohio	13,864		1							
Easton, Pa.	30,854		1		5					
East Orange, N. J.	43,761	4	3				1		1	
East Providence, R. I.	18,485		3							
Elgin, Ill.	28,362	4			4					
Elizabeth, N. J.	88,830		5				5	1	1	2
Elmira, N. Y.	38,272	6	3		2				3	
Englewood, N. J.	12,505	3					2			
Eureka, Calif.	15,142	4								
Everett, Mass.	40,160	5								
Everett, Wash.	37,205						1			
Fairmont, W. Va.	16,111				1					
Fall River, Mass.	129,828	28	3	1	10	1			6	1
Findlay, Ohio	14,858	10			9					
Flint, Mich.	57,386	5	9	1	7		1			
Fond du Lac, Wis.	21,486	10								
Fort Dodge, Iowa	21,039	0								
Fort Scott, Kans.	10,564	2								
Fort Wayne, Ind.	78,014	21	2							2
Fort Worth, Tex.	109,597	22	3	1					3	3
Fostoria, Ohio	10,959	1								
Freeport, Ill.	19,844	7								
Fremont, Nebr.	10,080	2								
Fremont, Ohio	11,034	4								
Fresno, Cal.	36,314	8								2
Galveston, Tex.	42,650	8							2	1
Gloversville, N. Y.	22,314				14				2	2
Grand Rapids, Mich.	132,861	25			6					
Greely, Colo.	11,942	2								
Green Bay, Wis.	30,017	11								
Greenfield, Mass.	12,251	2					1			
Greensboro, N. C.	20,171	5								1
Greensburg, Pa.	15,881		1		1		1			
Hackensack, N. J.	17,412	9				1			1	2
Hammond, Ind.	27,016	7					1			
Hancock, Mich.	12,578	1								
Harrisburg, Pa.	73,276		1		21		1			
Hartford, Conn.	112,851	37	4		2		3	1	9	
Haverhill, Mass.	49,180	18							2	3
Hazleton, Pa.	28,981				2		1			
Highland Park, Mich.	33,859	9	5		19		5		3	
Hoboken, N. J.	78,324	13	3	1					2	3
Holland, Mich.	12,459	1								
Holyoke, Mass.	66,503	16							3	2
Houston, Tex.	116,878	22								
Hudson, N. Y.	12,898	3								
Independence, Mo.	11,964	5			1					
Indianapolis, Ind.	253,622	79	8		11		2		11	12
Ironton, Ohio	14,079	4								
Ironwood, Mich.	15,095	2					1			
Ithaca, N. Y.	16,017	2								
Jamestown, N. Y.	37,431	2	1		5					
Janesville, Wis.	14,411	9								
Jersey City, N. J.	312,567		40		13		8		8	
Johnstown, N. Y.	10,678	3								
Johnstown, Pa.	70,473		4		26					
Joplin, Mo.	33,400	4							2	
Kalamazoo, Mich.	50,408	18			3					
Kansas City, Kans.	102,096								4	
Kansas City, Mo.	305,816	69	1				1		1	6
Keary, N. J.	24,325	5					1		3	
Keene, N. H.	10,725				1					
Kenosha, Wis.	32,833	7	1	1	12					
Knoxville, Tenn.	50,112						1			
Kokomo, Ind.	21,929	3							1	
Lockawanna, N. Y.	16,219	2	2						1	
La Crosse, Wis.	31,835	7	1						1	
La Fayette, Ind.	21,481	3					2			
Lakewood, Ohio	23,813	4	2							

1 Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 5, 1919—Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Lancaster, Ohio	16,086	1								
Lancaster, Pa.	51,437	0	1		3					
Lawrence, Kans.	13,477	0								
Lawrence, Mass.	102,923	21					2	1	2	2
Leominster, Mass.	21,385	0			11					
Lexington, Ky.	41,997	17	1		2		1		16	1
Lima, Ohio	37,145	6			8		1			2
Lincoln, Neb.	46,957	8			1				1	
Little Rock, Ark.	55,716	4							6	1
Lockport, N. Y.	20,028	4								1
Logansport, Ind.	21,338	7								1
Long Branch, N. J.	15,733	3			1					
Lorain, Ohio	38,266	5	1					1	1	1
Los Angeles, Cal.	535,483	103	9	1	5		4		18	18
Lowell, Mass.	114,366	22	3	1	5		2		11	2
Ludington, Mich.	10,566	4								
Lynchburg, Va.	33,497	11								2
Lynn, Mass.	104,534	18	2	1	7		8		4	
McKeesport, Pa.	48,290				2					
Macon, Ga.	46,099	15							1	
Madison, Wis.	31,315	8					1			1
Malden, Mass.	52,242	14					2		1	1
Manchester, N. H.	79,607	17	9	1						2
Manitowoc, Wis.	13,921	4			6					
Mankato, Minn.	10,365	4	1							1
Marionette, Wis.	14,610	4					1			
Marion, Ind.	19,923	4								1
Marion, Ohio	24,129								2	
Marlboro, Mass.	15,285	3								
Marquette, Mich.	12,555	2			10					
Martinsburg, W. Va.	12,494							2		
Martins Ferry, Ohio	10,125	0								
Mason City, Iowa	14,938	4								
Medford, Mass.	26,681	5	1				1			1
Melrose, Mass.	17,724	3								
Meriden, Conn.	29,431								1	
Methuen, Mass.	14,320	6								
Middletown, Ohio	16,394	3					1			
Milford, Mass.	14,230	2								
Milwaukee, Wis.	445,008	94	17	2	1		12		16	6
Minneapolis, Minn.	373,468	82	13	3	16		2		14	6
Missoula, Mont.	19,075	2			1					
Mobile, Ala.	69,301	19								1
Monessen, Pa.	23,070		1				2			
Montclair, N. J.	27,087				1		2		1	
Morgantown, W. Va.	14,444	5					2		1	1
Morristown, N. J.	13,410	4								
Moundsville, W. Va.	11,513	4								
Mount Carmel, Pa.	20,709		1		4		1		2	
Mount Vernon, N. Y.	37,991	6	3		1				1	1
Nanticoke, Pa.	23,311		3				2		1	
Nashua, N. H.	27,541	5	1				1			
Nashville, Tenn.	118,126	35			6		3		4	
Natick, Mass.	10,140	7							1	
Newark, N. J.	418,769	101	25	1	16		11		20	15
New Bedford, Mass.	121,822	18	3		14			1	13	3
New Britain, Conn.	55,385	10	3		3		4			
New Brunswick, N. J.	25,655								1	
Newburgh, N. Y.	29,893	9							1	2
Newburyport, Mass.	15,291	4							1	
New Haven, Conn.	152,275	43	2		1				9	
New London, Conn.	21,199	9					2			
New Orleans, La.	377,040	96	5		6		1		22	19
Newport, Ky.	32,133	3								
Newport, R. I.	30,585	2					1			
New York, N. Y.	5,777,492	1,090	240	13	72	5	45	3	191	138
Niagara Falls, N. Y.	58,466	9			5		2			
Norfolk, Va.	91,148									
Norristown, Pa.	31,969				2				1	
North Adams, Mass.	22,619	5								
Northampton, Mass.	30,006	3					1			1
North Attleboro, Mass.	11,248	1								

* Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 5, 1919—Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
North Braddock, Pa.	15,684								1	
North Little Rock, Ark.	15,515	0	2							
North Tonawanda, N. Y.	14,060	3					2		1	
Norwalk, Conn.	27,332								1	
Norwich, Conn.	21,923	0								
Oakland, Calif.	206,405	23	6	1			4		4	2
Oak Park, Ill.	27,816	6	1		12		1			
Ogdensburg, N. Y.	16,845	5								
Ogden, Utah.	32,345	6								
Oil City, Pa.	20,182				5					
Oklahoma City, Okla.	97,535	16	2			1				
Olean, N. Y.	16,927	8								
Omaha, Nebr.	177,777	21	6		3					5
Orange, N. J.	33,636	13	1						3	1
Oshkosh, Wis.	36,549	1	1		1		1			1
Ossining, N. Y.	14,064	9	1		4		1			
Parkersburg, W. Va.	21,059	9								
Parsons, Kans.	15,952								1	
Pasadena, Calif.	49,620	12					2		1	3
Passaic, N. J.	74,478	12	2		3				6	2
Paterson, N. J.	140,512	2	2		1		1		9	
Peekskill, N. Y.	19,034	1								
Peoria, Ill.	72,184	22			1					1
Perth Amboy, N. J.	42,646	10						5		1
Philadelphia, Pa.	1,735,514	360	50	9	79		36	1	93	45
Phillipsburg, N. J.	15,879	3								
Phoenixville, Pa.	11,871				1					
Pine Bluff, Ark.	17,777									
Piqua, Ohio.	14,275	3								
Pittsburgh, Pa.	588,196		14		16		8		17	
Pittsfield, Mass.	39,678	6					2		1	
Plainfield, N. J.	24,330	8								
Plattsburg, N. Y.	13,111	6	1							
Plymouth, Mass.	14,001								1	
Pontiac, Mich.	18,006	7	6		7		1		2	3
Port Chester, N. Y.	16,727	2					1			
Portland, Me.	64,720	12					2			
Portland, Ore.	308,399	55	1		1		7		7	6
Portsmouth, N. H.	11,730								1	
Portsmouth, Ohio.	29,356	1							2	
Portsmouth, Va.	40,693	16	1				1		1	1
Pottstown, Pa.	16,987	1			3					
Poughkeepsie, N. Y.	30,786	9							2	
Providence, R. I.	259,895	53	6	1			2			4
Pueblo, Colo.	56,084				1		3			
Quincy, Ill.	36,832	7								
Quincy, Mass.	39,022	10	2		1					
Ra ine, Wis.	47,465	12			1					
Rahway, N. J.	10,361	1								
Raleigh, N. C.	20,274	17			1				2	
Reading, Pa.	111,607		7		2				2	
Redlands, Calif.	14,573	1					1			
Redwing, Minn.	10,158		1							
Reno, Nev.	15,514	3								
Richmond, Va.	158,702	63	1		10				8	6
Roanoke, Va.	46,282	10	1		4		1		2	
Rochester, N. Y.	264,714	60	3	1	5	1	3		4	2
Rockford, Ill.	56,739	13	1		1		1			1
Rock Island, Ill.	29,452	5	1						1	
Rocky Mount, N. C.	12,673	7	1		1				1	
Rome, Ga.	15,607						3			
Rome, N. Y.	24,259									
Sacramento, Calif.	68,984	25			8		3			
Saginaw Mich.	56,469	13	2							1
Saint Joseph, Mo.	86,498	21	1							1
Saint Louis, Mo.	768,630	155	15		74	1	2		25	12
Saint Paul, Minn.	252,465	52	4	1	22		2		12	11
Salem, Mass.	49,346	11	1				4		2	1
Salt Lake City, Utah.	121,623	22	6				3			
San Angelo, Tex.	110,321	3								
San Bernardino, Calif.	17,616									4

1 Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Contd.

City Reports for Week Ended July 5, 1919—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
San Diego, Calif.	56,412	22								3
Sandusky, Ohio	20,226	8			2					
Sanford, Me.	11,717	1								
San Jose, Calif.	39,819						1			
Santa Barbara, Calif.	15,360	2	1							
Santa Cruz, Calif.	15,150	4								
Saugus, Mass.	10,210	0	1		4		1			
Sault Ste. Marie, Mich.	14,130	4								
Savannah, Ga.	69,250	22	3				1			2
Schenectady, N. Y.	103,774	19			7	1	2		3	4
Scranton, Pa.	149,541		3				2			
Seattle, Wash.	366,445		2		2		12			
Shamokin, Pa.	21,274		2		23					
Sharon, Pa.	19,156		1							
Sioux City, Iowa	58,583						1			
Somerville, Mass.	88,618	13	5				1		1	3
South Bend, Ind.	70,967	13			1		1			2
Southridge, Mass.	14,465	2								
Spa. tanburg, S. C.	21,985	5	1						1	1
Spokane, Wash.	157,656				21		16			
Springfield, Ill.	62,623	12								2
Springfield, Mass.	106,668	26							3	2
Springfield, Mo.	41,169	11								2
Springfield, Ohio.	52,296	15			3				6	2
Stamford, Conn.	31,840						1			
Stevensville, Ohio	28,259	9								
Stockton, Calif.	36,209	13	1	1						3
Sunbury, Pa.	16,661				1					
Superior, Wis.	47,167	11			5		1			1
Syracuse, N. Y.	158,559	37	5		2				4	4
Tacoma, Wash.	117,446		5		1		4			
Taunton, Mass.	36,610	15					1		2	
Terre Haute, Ind.	67,361	12	1		2					3
Toledo, Ohio	202,010	54	3		105	1	5		8	11
Topeka, Kans.	49,533	7					3		8	8
Trenton, N. J.	113,974	39	1						5	5
Troy, N. Y.	78,084	20	2		30	1			7	2
Vallejo, Calif.	18,803	2							1	
Virginia, Minn.	15,984								1	
Waco, Tex.	34,015	8								
Waterfield, Mass.	12,947	3					6			
Waltham, Mass.	31,011	6								
Washington, D. C.	369,282		1		3		3		18	11
Waterbury, Conn.	89,201	5	4	2	6		2		4	3
Watertown, Mass.	15,138	2								1
Wausau, Wis.	19,666	2			2					
Webster, Mass.	13,484	1								
West Chester, Pa.	13,403						1		1	
Westfield, Mass.	18,769	3								
West Hoboken, N. J.	44,336	1	2							
West New York, N. J.	19,613	3								
West Orange, N. J.	13,964	2	1						2	
Wheeling, W. Va.	43,657	5	6						1	
White Plains, N. Y.	23,331	4								
Wichita, Kans.	73,597	28			1				1	
Wilkes-Barre, Pa.	78,334		1		11		2		7	
Williamsburg, Pa.	23,899		1							
Williamsport, Pa.	34,123		1		3					
Wilmington, Del.	96,369	15	1	1			1			
Wilmington, N. C.	30,400	30	1							5
Winchester, Mass.	10,812	3								
Winona, Minn.	18,863				3					
Winston-Salem, N. C.	33,136	10			2				3	1
Woburn, Mass.	16,076	4								
Worcester, Mass.	166,106	59	6		13	2	3		4	4
Yakima, Wash.	22,058						1		1	
Yonkers, N. Y.	193,066	11	1		4		2			
York, Pa.	52,770		1				3		3	
Youngstown, Ohio	112,282	23	1	1	10		2		1	
Zanesville, Ohio	31,320	6							2	

1 Population Apr. 15, 1910.

FOREIGN.

AUSTRALIA.

Further Relative to Influenza—New South Wales—Queensland—South Australia.¹

During the week ended June 7, 1919, 63 new cases of influenza were reported in Newcastle and suburbs, State of New South Wales Australia.

At Brisbane, State of Queensland, Australia, during the week ended May 31, 1919, 2,629 cases of influenza were reported: (Population of Brisbane in 1912, 143,000.)

In the State of South Australia (estimated population, 436,640) 556 cases of influenza, 36 cases of influenza vera, and 24 cases of pneumonia were reported during the week ended May 31, 1919.

BRAZIL.

Plague, Smallpox, and Yellow Fever, 1914–1918—Bahia.

The prevalence of plague, smallpox, and yellow fever at Bahia, Brazil, during the period 1914–1918, inclusive, has been reported as follows:

Year.	Plague.		Smallpox.		Yellow fever.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1914.....	114	82	24	.....	120	68
1915.....	79	51	3	.....	9	3
1916.....	26	14	29	1	.....	.....
1917.....	40	29	30	.....	11	1
1918.....	13	8	16	.....	49	18
Total.....	272	184	102	1	179	90

¹ Imported case in a person arrived ill from Estancia, State of Sergipe.

Influenza, 1914–1918—Bahia.

Fatal cases of influenza were notified at Bahia, Brazil, during the period 1914–1918, as follows: Year 1914, 16 fatalities; 1915, 10 fatalities; 1916, 28; 1917, 17; 1918, 386. Total, 457.

Mortality by Years.

Years.	Estimated population.	Total deaths from all causes.	Daily average.	Deaths per 1,000 inhabitants.
1914.....	310,000	6,101	16.71	19.68
1915.....	314,000	5,169	14.16	16.46
1916.....	314,000	4,873	13.31	15.55
1917.....	320,000	4,947	13.55	15.45
1918.....	320,000	5,996	16.42	18.73
Averages.....	315,600	5,417	14.83	17.16

¹ Public Health Reports, July 11, 1919, p. 1570, and July 18, 1919, p. 1612.

CHILE.**Typhus Fever—Valparaiso.**

Bills of health received from Valparaiso, Chile, show prevalence of typhus fever, beginning with 30 cases with 8 fatalities in January, 1919, and reaching 341 cases with 84 fatalities, June 18, 1919.

INDIA.**Influenza—1918.**

For information relative to the epidemic of influenza in India during the year 1918, see page 1624.

INDO-CHINA.**Influenza—July–December, 1918.**

Influenza was reported present in epidemic form in Indo-China during the period from July to December, inclusive, 1918. The disease is stated to have been generally diffused with the greatest prevalence in the Provinces of Anam, Laos, and Tonkin.

MADAGASCAR.**Further Relative to Influenza.¹**

Influenza was reported present on the northeast coast of the island of Madagascar April 18, 1919, with about 500 cases at Diego Suarez. On April 23 influenza was reported present on the small island of Ste. Marie, off the northeast coast of Madagascar.

MEXICO.**Quarantine Against Progreso—Vera Cruz.**

According to information dated July 15, quarantine of seven days duration has been ordered at Vera Cruz, Mexico, against all vessels touching at Progreso, Mexico.

PERU.**Further Relative to Yellow Fever.**

Information dated July 17, 1919, has been received showing the occurrence of yellow fever in the Department of Piura, Peru, with 30 cases reported at the inland town of Piura and 8 cases at the port of Paita.

¹ Public Health Reports, May 9, 1919, p. 1038.

REUNION ISLAND.

Further Relative to Influenza.¹

Further reports of the epidemic outbreak of influenza on the island of Réunion, Indian Ocean, indicate that the localities most affected were the towns of St. Paul, Pointe des Galets, and St. Denis. On April 18, 54 deaths were notified at St. Denis, and on April 20, 65 deaths, the average number of deaths for St. Denis being stated to be about 5 daily. (Population in 1902, 27,392.)

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

Reports Received During Week Ended July 25, 1919.²

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	May 18-24.....	3	2	
Calcutta.....	May 18-31.....		220	
Japan:				
Pescadores Islands.....	July 14.....	40		Off coast of Taiwan Island. Occurring in one village. Public Health Reports, July 18, 1919, p. 1612.
Java:				
Mid-Java.....				Mar. 28-Apr. 24, 1919: Cases, 1,595; deaths, 1,225.
Samarang.....	Mar. 28-Apr. 24.....	75	74	City and district.
West Java.....				May 16-22, 1919: Cases, 8; deaths, 6.
Philippine Islands:				
Provinces.....				June 1-7, 1919: Cases, 67; deaths, 47.
Batangas.....	June 1-7.....	16	13	
Bulacan.....	do.....	12	7	
Nueva Ecija.....	do.....	4	1	
Pampanga.....	do.....	23	16	
Tayabas.....	do.....	12	10	

PLAGUE.

China:				
Foochow.....	May 18-24.....			Present.
Egypt:				Jan. 1-June 5, 1919: Cases, 482; deaths, 270.
Cities—				
Port Said.....	May 1-4.....	1	2	
Suez.....	May 29-June 4.....	5	4	
Provinces—				
Assiout.....	May 31-June 4.....	29	17	Septicemic, 8.
Beni-Souef.....	May 31.....	1		
Payoum.....	May 31-June 2.....	5	4	
Minieh.....	May 29.....	3	2	
Hawaii:				
Paauhau.....	July 19.....	1		
India:				
Bombay.....	May 18-24.....	41	29	May 11-24, 1919: Cases, 2,316; deaths, 2,276.
Calcutta.....	May 18-31.....		30	
Karachi.....	May 25-June 7.....	66	48	

SMALLPOX.

Canada:			
British Columbia—			
Vancouver.....	June 15-July 5.....	4	
New Brunswick—			
Moncton.....	July 6-12.....	1	

¹ Public Health Reports, May 9, 1919, p. 1039.² From medical officers of the Public Health Service, American consuls, and other sources.

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

Reports Received During Week Ended July 25, 1919—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Nova Scotia— Halifax.....	June 29-July 5.....	8		
Ontario— Ottawa.....	do.....	1		
Quebec— Quebec.....	June 29-July 12.....	5		June 8-14; 1919: 10 cases. On incoming vessels, June 8-28: 3.
Ceylon: Colombo.....	May 11-24.....	2		Port and town.
China: Chungking.....	do.....			Present.
Foochow.....	May 18-31.....			Do.
Nanking.....	May 25-June 7.....			Do.
Egypt: Alexandria.....	June 15-21.....	58	27	
Cairo.....	Jan. 2-14.....	8	3	
France: Marseille.....	May 1-31.....		2	
Great Britain: Cardiff.....	June 22-28.....	2		
Dundee.....	June 1-7.....	1		
Glasgow.....	June 8-21.....	5		
India: Bombay.....	May 18-24.....	53	33	
Calcutta.....	May 18-31.....		180	
Karachi.....	June 1-7.....	2		
Italy: Messina.....	June 8-21.....	10		Province, June 8-21, 1919: Cases, 23; deaths, 2.
Milan.....	Mar. 1-Apr. 30.....	20	3	
Naples.....	Mar. 19-June 22.....	68	54	
Palermo.....	May 16-June 20.....	36	5	
Turin.....	June 16-22.....	1		
Venice.....	May 26-June 1.....	2		
Java: West Java.....				May 16-22, 1919: Cases, 25; deaths, 10.
Newfoundland: St. Johns.....	June 28-July 4.....	1		13 cases at outports; present at Port Albert.
Portuguese East Africa: Lourenco Marques.....	Apr. 1-May 31.....	2	1	
Spain: Valencia.....	June 1-7.....	100	9	
Tunis: Tunis.....	June 15-21.....		1	

TYPHUS FEVER.

Chile: Valparaiso.....	Jan.-June 18, 1919.	341	84	
Egypt: Alexandria.....	June 15-21.....	122	37	
Cairo.....	Jan. 2-14.....	13	2	
Germany.....	Jan. 12-Feb. 22.....	344		Military.
Do.....	Feb. 23-Mar. 22.....	220		Civil.
Do.....	Mar. 23-Apr. 12.....	333		Civil, military, prisoners of war, deserters.
Great Britain: Glasgow.....	June 8-21.....	9	1	
Italy.....				May 26-June 1, 1919: Cases, 402, occurring in 13 provinces. Of these cases, 389 in Austrian prisoners of war, 12 in the civil population, and 1 Italian soldier. At Caserta, vicinity of Naples, 204 cases in prisoners.
Naples.....	June 9-22.....	26	11	June 2-8, 1919: Cases, 212, occurring in 11 provinces. Of these cases, 199 Austrian prisoners, 9 Italian soldiers, 4 civil population. At Caserta, 128 cases, prisoners.
Venice.....	May 19-June 14.....	18	5	
Mesopotamia: Bagdad.....	May 17-23.....	7	6	
Tunis: Tunis.....	June 15-21.....	1		

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

Reports Received During Week Ended July 25, 1919—Continued.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru:				
Paita.....	Reported July 17..	8		Department of Piura Do.
Piura.....	do.....	30		

Reports Received from June 28 to July 18, 1919.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Apr. 20-26.....	10		
China:				
Foochow.....	July 3.....			Present.
India:				
Bombay.....	Apr. 28-May 17....	19	17	
Calcutta.....	May 4-17.....		256	
Madras.....	May 18-24.....	10	8	
Rangoon.....	Apr. 28-May 17....	43	36	
Indo-China:				
Cochin-China— Saigon.....	Apr. 21-May 18....	113	83	City and district.
Japan:				
Taiwan (Island).....	July 14.....	40		In one village.
Java:				
East Java.....				Apr. 2-22, 1919: Cases, 301; deaths, 264.
West Java.....				May 2-8, 1919: Cases, 27; deaths, 7.
Batavia.....	May 2-8.....	10	5	
Persia:				
Ardebil.....	May 2.....			Present.
Enzell.....	Apr. 23.....	1		
Khorram-Ahab.....	May 3.....			Outbreak.
Mianedge.....	Apr. 28.....			Do.
Zindjan.....	Apr. 21-May 4.....		49	
Philippine Islands:				
Manila.....	Apr. 26-May 31....	7	2	
Provinces.....				May 4-24, 1919: Cases, 537; deaths, 383.
Batangas.....	May 4-24.....	25	23	
Bulacan.....	do.....	48	25	
Cebu.....	do.....	162	84	
Laguna.....	do.....	20	15	
Mindoro.....	do.....	19	14	
Misamis.....	do.....	9	2	
Pampanga.....	do.....	166	131	
Tayabas.....	do.....	118	89	
Siam:				
Bangkok.....	Apr. 13-May 17....		693	

PLAGUE.

China:				
Canton.....	May 25-31.....			Present.
Hongkong.....	June 15-28.....	42	33	
Ecuador:				
Posorja.....	June 1-15.....	2	1	Bathing place 65 kilometers from Guayaquil.
Egypt.....				Jan. 1-June 11, 1919: Cases, 530; deaths, 300.
Cities—				
Cairo.....	May 15.....		1	
Suez.....	June 5-11.....		3	
Provinces—				
Assiout.....	May 17-June 11....	40	17	
Beni-Souef.....	May 19-June 5.....	4	4	
Fayoum.....	May 18-June 11....	3	2	
Girgeh.....	May 15.....	3	2	
Menoufia.....	June 8.....	1		
Minieh.....	May 15-June 11....	22	8	

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

Reports Received from June 23 to July 18, 1919—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				Apr. 27-May 10, 1919: Cases, 3,719; deaths, 3,126.
Bombay.....	Apr. 28-May 17.....	171	112	
Karachi.....	May 18-24.....	43	45	
Rangoon.....	Apr. 28-May 17.....	30	29	
Indo-China:				
Cochin-China—				
Saigon.....	Apr. 21-May 18.....	18	14	City and district.
Japan:				
Yokohama.....	June 9.....	1		
Java:				
East Java.....				Apr. 8-22, 1919: Cases, 52; deaths, 52.
Mesopotamia:				
Bagdad.....	Apr. 19-May 16.....	267	201	
Basra.....	May 3-10.....	108	89	Including suburb of Ashar. Total from date of outbreak to May 19, 1919, 288 cases.
Siam:				
Bangkok.....	Apr. 27-May 17.....	2	2	
Straits Settlements:				
Singapore.....	Apr. 13-26.....	2	1	
On vessel:				
S. S. City of Sparta.....	Apr. 19-21.....	1	1	From Bombay Apr. 3, 1919; case, a soldier; at sea.
Do.....	May 13-17.....	1	1	At Liverpool; case, a native member of the crew. (Public Health Reports, June 27, 1919, p. 1463.)

SMALLPOX.

Arabia:				
Aden.....	May 13-19.....		1	
Austria:				Mar. 9-Apr. 5, 1919: Cases, 92.
Salzburg.....	Mar. 9-Apr. 5.....	50		
Vienna.....	do.....	17		
Azores:				
St. Michaels.....	June 7-20.....	1		
Brazil:				
Bahia.....	Apr. 20-May 3.....	2		
Canada:				
Nova Scotia—				
Cities—				
Halifax.....	June 15-28.....	61		
Sydney.....	June 8-21.....	3		
Counties—				
Antigonish.....	do.....			Present.
Guysborough.....	do.....			Do.
Halifax.....	do.....			Do.
Hants.....	do.....			Do.
Ontario—				
Province.....				May 1-31, 1919: Cases, 98; deaths, 2.
Hamilton.....	June 23-July 5.....	1		
Harwich.....	May 1-31.....	14	2	Township in Kent County.
Ottawa.....	June 15-21.....	2		
Peterborough.....	June 15-21.....	3		
Walpole Island.....	May 1-31.....	42		Kent County. Island in Lake St. Clair. Among Indians.
Quebec—				
Montreal.....	June 8-28.....	18		
Ceylon:				
Colombo.....	May 1-10.....	1		
China:				
Amoy.....	May 20-June 2.....		13	
Canton.....	May 18-31.....			Present.
Chungking.....	May 4-31.....			Do.
Chosen (Korea):				
Chemulpo.....	Apr. 1-May 31.....	19	4	
Fusan.....	do.....	294	81	
Seoul.....	do.....	3	1	
Czecho Slovakia:				
Prague.....	May 18-June 14.....	9	1	
Egypt:				
Alexandria.....	May 14-June 10.....	130	50	

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

Reports Received from June 28 to July 18, 1919—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Finland:				Apr. 16-May 15, 1919: Cases, 217.
Provinces:				
Abo Och Bjorneborg	Apr. 16-May 15	5		
Kuopio	do	12		
Nyland	do	3		
St. Michael	do	28		
Tavastehus	do	24		
Vasa	do	4		
Viborg	do	122		
France:				
Paris	May 11-June 14	10	3	
Great Britain:				
Cardiff	June 15-21	1		
London	May 25-June 7		3	
Greece:				
Saloniki	May 15-21		18	
India:				
Bombay	Apr. 28-May 17	189	128	
Calcutta	May 4-17		173	
Karachi	May 4-24	16	9	
Madras	May 18-24	23	11	
Rangoon	Apr. 28-May 17	93	43	
Indo-China:				
Cochin-China— Saigon	Apr. 21-May 18	11	4	City and district.
Italy:				
Leghorn	June 16-22	1		
Messina	June 1-7	3		
Milan	Apr. 1-30	1	2	
Milazzo	June 1-7	1	1	
Naples	June 2-8	28	25	
Palermo	May 2-8	3		
Turin	May 18-24	4	1	
Japan:				
Kobe	May 4-31	48	17	
Taiwan	May 21-June 10	2	4	Entire island.
Tokyo	May 1-31	1		
Yokohama	May 26-June 1	1		
Java:				
East Java				Apr. 9-15, 1919: Cases, 1.
West Java				May 2-8, 1919: Cases, 162; deaths, 32.
Batavia	Apr. 18-May 1	2	1	
Manchuria:				
Dairen	May 13-June 2	3	2	
Mexico:				
Mexico City	June 1-14	16	1	
Piedras Negras	June 22-28	2	2	
Newfoundland:				
St. Johns	June 13-19	2		June 13-27: Outports, 21 cases.
Philippine Islands:				
Manila	May 11-17	1		
Portugal:				
Oporto	June 2-14	17	9	
Spain:				
Almeria	May 18-31	40	5	
Barcelona	May 15-21	3		
Bilbao	May 1-10	1		
Cadiz	Apr. 1-30		4	
Madrid	May 1-31	3		
Valencia	May 11-17	74	3	
Straits Settlements:				
Singapore	Mar. 24-May 10	4	2	
On vessels:				
S. S. Eastern	Apr. 25-26	2	1	Death at sea. Second case landed at Woodman's Quarantine Station, Fremantle, Australia, Apr. 29. Vessel from England via Egypt and Colombo.
S. S. Karoa	Apr. 19	1		Landed at Colombo. Vessel from the United Kingdom via Egypt and Colombo.
S. S. Khyber	Apr. 10-May 4	4		From Liverpool, via Port Said, Suez, and Colombo. One case landed at Port Said Apr. 10, 2 cases at Colombo Apr. 22, one at quarantine, Fremantle, Australia, May 4, 1919.

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

Reports Received from June 28 to July 18, 1919—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	May 1-31.....	76	8	
Austria.....				Mar. 23-Apr. 5, 1919: Cases, 118.
Vienna.....	Mar. 23-Apr. 5.....	9		
China:				
Changsha.....	May 11-17.....	1	1	
Chosen (Korea):				
Chemulpo.....	Apr. 1-May 31.....	54	8	
Fusan.....	May 1-31.....	4	1	
Seoul.....	April 1-May 31.....	79	14	
Czecho Slovakia:				
Prague.....	May 13-24.....	1		
Egypt:				
Alexandria.....	May 14-June 3.....	312	148	
Finland.....				Apr. 16-May 15, 1919: Cases, 15.
Provinces:				
Abo Och Bjorneborg.....	May 1-15.....	1		
Nyland.....	Apr. 16-May 15.....	3		
St. Michael.....	do.....	8		
Viborg.....	do.....	3		
Greece:				
Saloniki.....	May 15-21.....		2	
Hungary.....				Feb. 24-May 9, 1919: Cases, 258.
Budapest.....	Feb. 24-May 9.....	124	6	
Debrcezin.....	do.....	42		
Italy.....				Apr. 28-May 25, 1919: Cases, 2,856—Austrian prisoners, 2,733; Italian soldiers, 72; civil population, 51.
Naples.....	May 12-June 1.....	24	5	
Venice.....	Apr. 27-May 18.....	40	4	
Mesopotamia:				
Bagdad.....	Apr. 19-May 16.....	19	10	
Mexico:				
Mexico City.....	May 4-June 21.....	162		
Newfoundland:				
St. Johns.....	June 21-27.....	1		From vessel.
Palestine:				
Jaffa.....				Oct. 22-Dec. 22, 1918: Cases, 8; deaths, 3.
Portugal:				
Oporto.....	June 1-15.....	52		
Spain:				
Barcelona.....	May 15-21.....		1	
Madrid.....	May 1-31.....		1	
Tunis:				
Tunis.....	May 24-30.....	2	1	

YELLOW FEVER.

Brazil:				
Bahia.....	Apr. 12-May 11.....	18	12	
Ecuador:				
Guayaquil.....	May 1-31.....	1	1	
Naranjito.....	May 1-June 15.....	2	1	
Mexico:				State of Yucatan.
Merida.....	June 30-July 1.....	5	2	
Peru:				
Payita.....	July 10.....	2	2	
Salvador:				
La Union.....	July 6.....	2		
St. Miguel.....	June 24-July 6.....	4		75 miles from city of San Salvador.
San Salvador.....	do.....	1	1	