

PUBLIC HEALTH REPORTS

VOL. 44

NOVEMBER 15, 1929

NO. 46

A STUDY OF THE PELLAGRA-PREVENTIVE ACTION OF CANNED SALMON

By JOSEPH GOLDBERGER¹ and G. A. WHEELER, *Surgeons, United States Public Health Service*

In many of the smaller and more isolated industrial communities, as well as in much of the rural area of the South in which pellagra is endemic, the fresh-meat supply is often very restricted, especially in the spring and summer months. During this period fresh meat is, to a varying degree, replaced by preserved meats of some sort, often including fish. Among the preserved fish, canned salmon appears to be quite generally used. This observation led to a test (1) of its blacktongue-preventive action in the dog, resulting in full protection against this condition.

As the study in the dog showed clearly that canned salmon has a decided preventive value in blacktongue, and, in view of the abundant evidence (1) (2) (3) that canine blacktongue is the analogue of human pellagra, a comparable study of the value of canned salmon in pellagra was organized at the Georgia State Sanitarium, Milledgeville, Ga., in October, 1927, through the courtesy and sustained cooperation of the board of trustees, superintendent, officers, and staff. The results of this study are reported here.

As in the experimental work in the dog, canned Alaska chum salmon was used. The chum salmon is one of the cheaper grades, and for this reason was the one selected for study. The entire contents of the can (454 grams), including bone, skin, and liquid portion, were thoroughly mixed and incorporated in the cooked cereal-legume portion of the basic diet. Each patient was allowed six ounces of salmon per day, receiving approximately 1.7 ounces with the morning and evening meals and 2.6 ounces at midday. The composition of the salmon-supplemented diet is shown in the accompanying table.

¹ This study was organized prior to the death of Surgeon Goldberger and was, for the most part, conducted under his direction. The manuscript was prepared by the junior author.

TABLE 1.—*Approximate composition¹ of a salmon-supplemented diet offered daily to each of a group of white insane female pellagrins*

[Total calories 2,050]

Diet		Nutrients		
Articles of diet	Quantity	Protein	Fat	Carbohydrate
Basic:	Grams	Grams	Grams	Grams
Cornmeal ²	256	21.5	12.0	189.4
Cowpeas ³	42	8.98	.6	25.5
Wheat flour.....	21	2.4	.2	15.8
Lard.....	49		40.0	
Tomato juice ⁴	126			
Supplemental:				
Canned salmon ⁵	168	36.1	12.4	
Cod-liver oil.....	14		14.0	
Calcium carbonate.....	3			
Sirup iodide of iron (U. S. P.) (2 drops).....				
Dilute hydrochloric acid (U. S. P.) (90 drops).....				
Total nutrients.....		68.98	88.2	230.7

¹ Except for salmon, factors used for computing are from Atwater and Bryant, Office of Experiment Stations, U. S. Department of Agriculture Bulletin No. 28. 1906.

² Whole maize, sifted in kitchen and made into cornbread and "mush."

³ The variety known as California black-eyed pea. Ground into a coarse meal and boiled.

⁴ Expressed juice of canned tomatoes.

⁵ Alaska chum salmon (canned). Analysis made in the division of chemistry, Hygienic Laboratory.

A total of 18 white female patients came under observation for pellagra-preventive treatment with this diet during the period of the test, all of whom remained under continuous observation for a period of not less than one year. None of these presented, at any time, symptoms suggestive of pellagra. In the light of repeated experience it seems safe to state that, without the salmon or some other equivalent preventive food in the diet, not less than 40 or 50 per cent of them would have suffered a recurrence within a period of from three to seven months. The fact that none of the group showed symptoms even suggestive of pellagra would seem to be convincing evidence of the pellagra-preventive action of the salmon and of the presence of the pellagra-preventive factor in canned Alaska chum salmon. The quantity of salmon allowed was fairly liberal. Whether a smaller allowance might have been equally effective can not be stated.

The demonstration that salmon contains the pellagra-preventive factor is of considerable interest. In the first place it is a readily available preserved food, comparatively cheap, and, if used in sufficient quantity, constitutes a dependable substitute for fresh meat, at least in so far as the pellagra-preventive factor is concerned. The results are also in harmony with certain previously recorded experiments showing that substances possessing blacktongue-preventive potency are also preventives of pellagra, and thus furnishes additional evidence that blacktongue in dogs is the analogue of pellagra in man.

SUMMARY AND CONCLUSIONS

1. Canned salmon (Alaska chum) contains the pellagra-preventive factor.

2. By reason of its potency in the P-P factor, and its availability in the preserved state, salmon may be considered a fair substitute for meat in the areas of pellagra endemicity when meat is not readily available.

3. The demonstration of the pellagra-preventive value of canned salmon furnishes further evidence of the soundness of the working hypothesis that blacktongue of dogs is the analogue of pellagra in man.

REFERENCES

(1) Goldberger, Wheeler, Lillie, and Rogers: The Blacktongue Preventive Action of Sixteen Foodstuffs. Pub. Health Rep., vol. 43, No. 23 (June 8, 1928). (Reprint No. 1231.)

(2) Goldberger, Wheeler, Lillie, and Rogers: A Further Study of Butter, Fresh Beef and Yeast As Pellagra-Preventives, With Consideration of the Relation of Factor P-P of Pellagra (and Blacktongue of Dogs) to Vitamin B. Pub. Health Rep., vol. 41, No. 8 (February 19, 1926). (Reprint No. 1062.)

(3) Goldberger and Wheeler: Experimental Blacktongue of Dogs and Its Relation to Pellagra. Pub. Health Rep., vol. 43, No. 4 (January 27, 1928). (Reprint No. 1205.)

CITY HEALTH OFFICERS, 1929

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

Directories of the city health officers in the cities of the United States having a population of 10,000 or more have been published in the Public Health Reports¹ for each year from 1916 to 1928 for the information of health officers and others interested in public-health activities. These directories have been compiled from data furnished by the health officers. The cities included in this directory are those having 10,000 or more population.

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

¹ Reprints Nos. 346, 416, 494, 539, 599, 702, 767, 876, 930, 1025, 1103, 1177, and 1257 from the Public Health Reports.

City	Name of health officer	Official title
Alabama:		
Anniston.....	*George A. Cryer, M. D.	County health officer.
Bessemer.....	*Robert V. Hazlewood, D. V. M.	Director of sanitation and food and dairy inspector.
Birmingham.....	*J. D. Dowling, M. D.	County health officer.
Dothan.....	*Russell E. Naff, M. D.	Do.
Florence.....	*W. D. Hubbard, M. D.	County and city health officer.
Gadsden.....	*Walter H. Harper, M. D.	Do.
Mobile.....	*C. A. Mohr, M. D.	County health officer.
Montgomery.....	*J. L. Bowman, M. D.	County and city health officer.
Selma.....		
Tuscaloosa.....	*A. A. Kirk, M. D.	Do.
Arizona:		
Douglas.....	Z. Causey, M. D.	City health officer.
Phoenix.....	Harry J. Felch, M. D.	Do.
Tucson.....	Alvin Kirmse, M. D.	Do.
Arkansas:		
Fort Smith.....	*J. E. Johnson, M. D.	District health officer.
Helena.....	*Walter B. Bruce, M. D.	Field agent, United States Public Health Service.
Hot Springs.....	*J. F. Merritt, M. D.	City and county health officer.
Jonesboro.....	Charles H. Lutterloh, M. D.	City health officer.
Little Rock.....	*W. G. Scougale.	Do.
North Little Rock.....	James A. Summers, M. D.	Do.
Pine Bluff.....	*George A. Hays, M. D.	Director, health department.
California:		
Alameda.....	Arthur Hieronymus, M. D.	Health officer.
Alhambra.....	*Samuel J. Stewart, M. D.	District health officer.
Bakersfield.....	Peter J. Cuneeo, M. D.	Health officer.
Berkeley.....	*Frank L. Kelly, M. D.	Do.
Chico.....	Charles E. Tovee.	City health officer.
Eureka.....	John N. Chain, M. D.	City physician and health officer.
Fresno.....	C. Mathewson, M. D.	Health officer.
Glendale.....	*E. M. Miller, M. D.	Do.
Long Beach.....	*Grundy E. McDonald, M. D.	City health officer.
Los Angeles.....	*George Parrish, M. D.	Health officer.
	G. S. Porter, M. D.	First assistant health officer.
	Divisional directors—	
	Harry H. East, M. D.	Assistant health officer.
	Harry Cohn, M. D.	Director of tuberculosis.
	A. V. Nasatir, M. D.	Director of child welfare.
	George M. Stevens, M. D.	Epidemiologist.
	Agnes M. Talcott.	Chief nurse.
	Robert B. Forsyth.	Chief accountant.
	F. W. Peterson.	Director of vital statistics.
	John Carman.	Chief chemist.
	L. V. Dieter.	Director of laboratories.
	Mona Bettin, M. D.	Chief bacteriologist.
	F. D. Sweger.	Director housing and sanitation.
	William Veit, M. D.	Director milk and meat inspection.
	H. H. Matthieson.	Sanitary engineer.
	John Nelson.	Chief meat inspector.
	Frank Mefferd.	Chief fruit and vegetable inspector.
	E. F. McGonigle.	Chief clerk morbidity division.
	A. M. Rogers, V. D.	Director venereal clinic (male).
	Hannah J. Beatty, M. D.	Director venereal clinic (female).
	Lyle McNeile, M. D.	Director maternity division.
	C. K. Stewart.	Director of rodent division.
	J. M. Cain.	Quarantine division.
Modesto.....	J. W. Morgan, M. D.	Health officer.
Oakland.....	Charles R. Fancher, M. D.	Do.
Pasadena.....	*J. D. Dunshee, M. D.	Health officer and city physician.
Pomona.....	*Eugene F. Fontaine, M. D.	District health officer.
Richmond.....	Charles R. Blake, M. D.	Commissioner of health.
Riverside.....	*W. B. Wells, M. D.	Do.
Sacramento.....	J. Howard Hall, M. D.	City health officer.
San Bernardino.....	W. W. Fenton, M. D.	Do.
San Diego.....	*Alex M. Lesem, M. D.	Do.
San Francisco.....	*William C. Hassler, Ph. G., M. D.	Health officer and local registrar.
	Herbert F. True, M. D.	Chief of division.
Division of sanitation (includes epidemiological and disinfection).	Thomas P. Lydon.	Do.
Dairy, milk, and food division (includes industrial division).	Carl G. Hansen.	Do.
Meat and market division.	William T. Montgomery.	Do.
Housing division.	William D. Hobro.	Do.
Plumbing division.		Do.

City	Name of health officer	Official title
California—Continued.		
San Francisco—Continued.		
Child-welfare division (includes social service).....	Eleanor Stockton, P. H. N.....	Director field nursing.
School-health division.....	Thomas D. Maher, M. D.....	Director of child hygiene.
Dental division.....	Robert Grosso, D. D. S.....	Chief dentist.
Psychological division.....	Olga Bridgman, M. D.....	Psychologist.
Chest clinic division (tuberculosis).....	W. R. P. Clark, M. D.....	Director.
Social hygiene division.....	R. W. Burlingame, M. D.....	Chief clinician.
Bacteriological division.....	Anna D. MacRae, M. D.....	Director.
Chemical laboratory.....	Clinton Davis.....	Chief chemist.
Auditing division.....	Percy R. Hennessy.....	Auditor.
San Francisco Hospital.....	Leon M. Wilbor, M. D.....	Superintendent.
Laguna Honda Home.....	Charles M. Wollenberg.....	Do.
Emergency service.....	Edmund Butler, M. D.....	Chief surgeon.
San Jose.....	*Henry C. Brown, M. D.....	Health officer.
Santa Ana.....	*K. H. Sutherland, M. D.....	County health officer.
Santa Barbara.....	*William H. Eaton, M. D.....	Health officer.
Santa Cruz.....	John T. Harrington, M. D.....	City health officer.
Santa Monica.....	*William F. Reasner, M. D.....	Health officer.
Stockton.....	*John J. Sippy, M. D.....	District health officer.
Vallejo.....	E. A. Peterson, M. D.....	Health officer.
Colorado:		
Boulder.....	Carl H. Graef, M. D.....	City health officer.
Colorado Springs.....	Omer R. Gillett, M. D.....	Do.
Denver.....	*B. B. Jaffa, M. D.....	Manager of health and charity.
Greeley.....	B. Woodcock, M. D.....	City physician.
Pueblo.....	W. E. Buck, M. D.....	Chief department of health.
Trinidad.....	G. W. Robinson, M. D.....	City physician.
Connecticut:		
Ansonia.....	William H. O'Neill, M. D.....	Health officer.
Bridgeport.....	*William Francis Wild, M. D., C. P. H.....	Do.
Bristol.....	Benjamin B. Robbins, M. D.....	Do.
Danbury.....		
Derby.....	Thomas F. Plunkett, M. D.....	Do.
East Hartford.....	Harvey Burton Goddard, M. D.....	Do.
Enfield.....	Frank F. Simonton, M. D.....	Health officer.
Fairfield.....	*Lawrence E. Poole, M. D., Dr. P. H.....	Health officer and school physician.
Greenwich.....	A. E. Austin, M. D.....	Health officer.
Hartford.....	*Charles P. Botsford, M. D.....	Superintendent of health.
Manchester.....	D. C. Y. Moore, M. D.....	Chairman board of health.
Meriden.....	H. DeForest Lockwood, M. D.....	Health officer.
Middletown.....	John H. Mountain, D. D. S., M. D.....	Do.
Millford.....		
Naugatuck.....		
New Britain.....	*Richard Woollard Pullen, M. D.....	Superintendent of health.
New Haven.....	*John Levi Rice, M. D.....	Health officer.
New London.....	*Benjamin N. Pennell, D. V. S.....	Do.
Norwalk.....	Robert E. Perdue, M. D.....	Health commissioner.
Norwich.....	Edward J. Brophy, M. D.....	Health officer.
Orange.....		
Shelton.....	William S. Randall, Ph. B., M. D.....	Do.
Stamford.....	*R. D. Fear, M. D., Dr. P. H.....	Health commissioner.
Stonington (Mystic).....	D. E. G. Taylor, M. D.....	Health officer.
Stratford.....	DeRuyter Howland, M. D.....	Town health officer.
Torrington.....		
Wallingford.....		
Waterbury.....	*Edw. J. Godfrey, M. D.....	Health officer.
West Hartford.....	L. A. Cushman, M. D.....	Do.
Willimantic.....	W. P. S. Keating, M. D.....	City health officer.
Windham.....		
Delaware:		
Wilmington.....	Fred F. Armstrong, M. D.....	Secretary board of health.
District of Columbia:		
Washington.....	*William C. Fowler, M. D.....	Health officer.
	Edward J. Schwartz, M. D.....	Assistant health officer.
	Arthur G. Cole.....	Chief clerk and deputy health officer.
Bureau of preventable diseases.....	James G. Cumming, M. D.....	Director.
Medical inspection of schools.....	Joseph A. Murphy, M. D.....	Do.
Food inspection.....	Reid R. Ashworth, D. V. S.....	Do.
Sanitary inspection.....	J. Frank Butts, LL. B.....	Do.
Vital statistics.....	John H. Milligan.....	Do.
Chemical laboratory.....	John B. Reed.....	Do.
Bacteriological laboratory.....	John E. Noble.....	Do.
Serological laboratory.....	Jesse P. Porch.....	Do.

City	Name of health officer	Official title
Florida:		
Jacksonville	*Noble A. Upchurch, M. D.	Health officer.
Key West	H. C. Galey, M. D.	City health officer.
Miami	*George N. MacDonell, M. D.	Chief division of health.
Orlando	Sylvan McElroy, M. D.	City health officer.
Pensacola		
St. Petersburg		
Tampa	*Charles William Bartlett, jr., M. D.	Acting city health officer.
West Palm Beach	W. E. Van Landingham, M. D.	City health officer.
Georgia:		
Albany	*Hugo Robinson, Ph. G., M. D.	Commissioner of health.
Athens	*Thomas H. Johnston, M. D.	Do.
Atlanta	*John P. Kennedy, M. D.	City health officer.
Augusta	Eugene E. Murphey, M. D.	Health officer.
Brunswick	*H. L. Akridge, M. D., Dr. P. H.	Health commissioner.
Columbus	R. L. Williams, M. D.	City health officer.
La Grange	*S. C. Rutland, M. D.	Health officer.
Macon	*J. D. Applewhite, M. D.	Do.
Rome	*B. V. Elmore, M. D.	Commissioner of health.
Savannah	*Victor H. Bassett, M. D.	District commissioner of health and city health officer.
Valdosta	*Gordon T. Crozier, M. D., Dr. P. H.	Commissioner of health.
Waycross	*George E. Atwood, M. D., Dr. P. H.	District commissioner of health.
Idaho:		
Boise	*W. H. Rhodes	Health officer.
Pocatello	H. H. Hughart, M. D.	City physician.
Twin Falls	*David M. Cowgill, M. D.	County health officer.
Illinois:		
Alton	O. E. Carson, M. D.	Health officer.
Aurora	George W. Haan, M. D.	Health commissioner.
Belleville	*Gustav Ehret	Public health officer.
Berwyn	*Preston E. Wright, M. D.	Health director.
Bloomington	*H. H. Bishop, M. D.	Do.
Blue Island	*L. A. Burkhart	Health commissioner.
Cairo	C. L. Weber, M. D.	Health officer and city physician.
Canton	C. J. Johnston, M. D.	City physician.
Centralia	G. N. Welch, M. D.	Health officer.
Champaign	W. E. Schowengerdt, M. D.	City health officer.
Chicago	*Arnold H. Kegel, M. D.	Commissioner of health.
	G. Koehler, M. D.	Assistant health commissioner.
	H. O. Jones, M. D.	Do.
	Alton S. Pope, M. D.	Chief of bureau.
Bureau of communicable diseases.		
Bureau of child welfare	Henry C. Niblack, M. D.	Do.
Bureau of dental hygiene	Lon W. Morrey, D. D. S.	Do.
Bureau of laboratories and research.	F. O. Tonney, M. D.	Do.
Bureau of hospitals	Archibald L. Hoyne, M. D.	Do.
Bureau of sanitary engi- neering.	Joel I. Connolly	Do.
Bureau of vital statistics	M. O. Heckard, M. D.	Do.
Bureau of dairy products	Henry C. Becker, M. D. V.	Do.
Bureau of food inspection	J. P. Kilcourse	Do.
Bureau of inspection ser- vice.	J. M. Murphy, M. D.	Do.
Chicago Heights	Arthur H. Pannenberg, M. D.	Health officer.
Cicero	J. J. Hood, M. D.	Health commissioner.
Collinsville		
Danville	W. C. Dixon, M. D.	Do.
Decatur	*Charles Rainer Smith, M. D.	Director of public health.
East Moline	J. Henry Fowler, M. D.	Health commissioner.
East St. Louis	*Albert P. Lauman	Commissioner of health.
Elgin	*George H. Reber	Health officer.
Evanston	*John W. H. Pollard, B. L., M. D.	Commissioner of health.
Forest Park	William C. Masslow, M. D.	Do.
Freeport	E. L. Motsinger, M. D.	Do.
Galesburg	E. D. Wing, M. D.	Do.
Granite City	L. D. Darner, M. D.	Do.
Harvey	M. R. Morse, M. D.	Health officer.
Herrin	Kleo Pearce	President board of health.
Jacksonville		
Joliet	*Ed. J. Higgins, M. D.	Commissioner of health.
Kankakee	C. K. Smith, M. D.	Health officer.
Kewanee	H. N. Heflin, M. D.	Commissioner of health.
La Salle	*Arlington Ailes, M. D., C. P. H.	Do.
Lincoln	*Wilbur Montgomery	Health officer.
Marion	W. Edw. Reid, M. D.	City physician.
Mattoon		
Maywood	S. W. Coffman, M. D.	Health commissioner.
Moline	E. A. Edlen, M. D.	City physician.
Mount Vernon	George O. Culli, M. D.	Do.
Murphysboro	Louis R. Wayman, M. D.	Do.

City	Name of health officer	Official title
Illinois—Continued.		
Oak Park	Frank S. Needham, M. D.	Commissioner of health.
Ottawa	Paul G. Pomeroy, M. D.	Health officer.
Pekin	Lawrence R. Clary, M. D.	Do.
Peoria		
Quincy	*Thomas W. Rhodes, Ph. G., M. D.	Public health officer.
Rock Island	Ralph Dart, M. D.	City physician.
Rockford	*N. O. Gunderson, M. D.	Commissioner of health.
Springfield	H. H. Tuttle, M. D.	Superintendent of health.
Streator	D. S. Conley, M. D.	City physician.
Urbana	George F. Way, M. D.	Health officer.
Waukegan	Howard C. Hoag, M. D.	City health physician.
West Frankfort	C. E. Koons, M. D.	City health officer
Indiana:		
Anderson	E. M. Conrad, M. D.	Secretary city board of health.
Bloomington	J. E. Moser, M. D.	Do.
Clinton		
Connersville	J. H. Clark, M. D.	Do.
Crawfordsville	Thomas Z. Ball, M. D.	City health officer.
East Chicago	Milton A. Given, M. D.	Secretary board of health.
Elkhart	Allen A. Norris, M. D.	Do.
Elwood	Harry W. Fitzpatrick, M. D.	Secretary, health department.
Evansville	William E. Barnes, M. D.	Secretary, board of health.
Fort Wayne	D. R. Benninghoff, M. D.	Do.
Frankfort		
Gary	B. W. Harris, M. D.	Do.
Hammond	William A. Buchanan, M. D.	Do.
Huntington	R. F. Frost, M. D.	Do.
Indianapolis	*H. G. Morgan, M. D.	Health commissioner.
Jeffersonville	*Davis L. Field, M. D.	Secretary board of health.
Kokoma	T. C. Cochran, M. D.	Health officer.
La Fayette	Earl Van Reed, M. D.	Secretary board of health.
La Porte	Charles B. Danruther, M. D.	Health commissioner.
Logansport	*Fred G. Six	Health inspector.
Marion	John F. Loomis, M. D.	Secretary city board of health.
Michigan City	Nelle C. Reed, M. D.	Health officer.
Mishawaka	B. J. Wyland, M. D.	Secretary board of health.
Munice	Earle S. Green, M. D.	Do.
New Albany	Henry B. Shacklett, M. D.	Do.
Newcastle	Clyde C. Bitler, M. D.	Do.
Peru	Omer U. Carl, M. D.	Health officer.
Richmond	Richard Schillinger, M. D.	Secretary board of health.
South Bend	J. B. Berteling, M. D.	Do.
Terre Haute	Paul J. Bronson, M. D.	Do.
Vincennes	Robert G. Moore, M. D.	Do.
Wabash	Perry G. Moore, M. D.	City health officer.
Whiting	Michael Elmer Rafacz, M. D.	Do.
Iowa:		
Boone	William Woodburn, M. D.	Health officer.
Burlington	George H. Steidle, M. D.	Do.
Cedar Rapids	V. H. Hasek, M. D.	Do.
Clinton	Frank A. Hohenschuh, M. D.	Health officer and city physician.
Council Bluffs	Albert Danielsens, M. D.	Health officer.
Davenport	*Theodore J. Meyer	Do.
Des Moines	*Adolph J. Lieber, M. D.	Health commissioner.
Dubuque	W. J. Connell, Ph. D., M. D.	Health officer.
Fort Dodge	James P. Sharon, M. D.	City physician.
Fort Madison	Harold F. Noble, M. D.	Do.
Iowa City	Francis L. Love, M. D.	Health officer.
Keokuk	C. A. Dimond, M. D.	City physician.
Marshalltown		
Mason City	Channing E. Dakin, M. D.	Director department of health and sanitation.
Muscatine	Rodney M. Arey, M. D.	City health physician.
Ottumwa	F. A. Hecker, M. D.	Public health officer.
Sioux City	*Frank H. Collins	Commissioner of public health.
Waterloo	J. R. Thompson, M. D.	City health officer.
Kansas:		
Arkansas City	E. W. Hellweg, M. D.	City physician.
Atchison	Charles W. Robinson, M. D.	City health officer.
Chanute	James A. Butin, M. D.	Do.
Coffeyville	Adolph Boese, M. D.	City physician and health officer.
Eldorado	R. J. Cabeen, M. D.	County health officer.
Emporia	*J. S. Fulton, M. D.	Field agent, United States Public Health Service.
Fort Scott	C. L. Mosley, M. D.	City health officer.
Hutchinson	G. R. Walker, M. D.	City physician.
Independence		
Kansas City	*S. D. Henry, M. D.	Director of health.
Lawrence	E. R. Keith, M. D.	City health officer.
Leavenworth	A. L. Suwalsky, M. D.	City physician.
Newton	F. S. Bartel, M. D.	County health officer.
Parsons	M. C. Ruble, M. D.	City health officer.
Pittsburg	H. J. Veatch, M. D.	Do.
Salina	S. T. Blades, M. D.	Health officer.
Topeka	*Joseph H. Kinnaman, M. D.	City health officer.
Wichita	*J. E. Wolfe, M. D.	Director of public welfare.

City	Name of health officer	Official title
Kentucky:		
Ashland	James P. Riffe, M. D.	City health officer.
Covington	*Edwin Cameron, M. D., O. M.	Director county health department.
Henderson		Health officer.
Lexington	*Charles Howard Voorhies, M. D.	Do.
Louisville	C. H. Harris, M. D.	City health officer.
Newport	John Todd, M. D.	Director of health.
Owensboro	*Samuel E. Hainline, Ph. G., M. D.	
Paducah	H. P. Linn, M. D.	City health officer.
Louisiana:		
Alexandria	J. A. Packer, M. D.	President board of health.
Baton Rouge	T. Jeff McHugh, M. D.	City health officer.
Lake Charles	J. G. Martin, M. D.	Do.
Monroe	*John W. Williams, M. D., C. P. H.	Parish health officer.
New Orleans	*William Henry Robin, M. D.	Superintendent of public health.
Shreveport	*A. G. Heath, M. D.	President board of health.
Maine:		
Auburn	*L. J. Dumont, M. D.	Health officer.
Augusta	George A. Coombs, M. D.	Do.
Bangor	*H. D. McNeil, M. D.	Do.
Bath	*Chester S. Kingsley	City sanitarian.
Biddeford	*John W. Mahoney	Health officer.
Lewiston	*L. J. Dumont, M. D.	Do.
Portland	*Thomas Tetreau, M. D.	Do.
Sanford	*William H. Kelly, M. D.	Do.
South Portland	Philip H. McCrum, M. D.	Do.
Waterville	*Arthur R. Daviau, M. D.	Do.
Westbrook	P. H. Welch	Do.
Maryland:		
Annapolis	Joseph C. Joyce, M. D.	City physician.
Baltimore	*C. Hampson Jones, M. D.	Commissioner of health and registrar of vital statistics.
Bureau of bacteriology	J. Frederick Hempel, M. D.	Deputy health officer.
Bureau of chemistry and food.	William Royal Stokes, M. D.	Director.
Bureau of meat inspection.	R. S. Craig	Do.
Bureau of communicable diseases.	William Brenner, M. D.	Do.
Bureau of sanitation	J. Frederick Hempel, M. D.	Do.
Bureau of nursing	J. Frederick Hempel, M. D.	Do.
Bureau of child welfare	Mrs. J. B. Laib	Do.
Bureau of vital statistics.	William H. F. Warthen, M. D.	Do.
Bureau of hospitals	Howard A. Moore	Do.
Cumberland	Myron G. Tull, M. D.	Do.
Frederick	*Harvey H. Weiss, B. S., bacteriology.	Health officer and registrar of vital statistics.
Hagerstown	*Elmer C. Kefauver, M. D.	Assistant deputy State health officer.
Massachusetts:		
Adams	Ernest F. Poole, M. D.	County health officer.
Amesbury	*L. French, M. D., Pittsfield	District health officer.
Arlington	C. S. Morse	Agent board of health.
Athol	*William H. Bradley	Do.
Attleboro	Marion B. Sibley, M. D.	Secretary board of health.
Belmont	William O. Hewitt, M. D.	Health officer.
Beverly	Thomas F. Harris	Do.
Boston	*Alonzo O. Woodbury	Agent board of health.
	*Francis X. Mahoney, D. V. M., M. D.	Health commissioner.
Divisions—		
Medical	M. Victor Safford, M. D.	Director.
Communicable diseases.	Frederick J. Bailey, M. D.	Do.
Bacteriological laboratory.	Karl R. Bailey, M. D.	Do.
Food	P. H. Mallowney, M. D.	Do.
Child hygiene	Charles F. Wilinsky, M. D.	Do.
Sanitary	Thomas J. Donnellon	Do.
Tuberculosis	George O'Donnell, M. D.	Do.
Braintree	Harry F. Vinton	Agent, board of health.
Brocton	Joseph H. Lawrence, M. D.	Health officer.
Brookline	Francis P. Denny, M. D.	Do.
Cambridge	Simon B. Kelleher, M. D.	Medical inspector.
Chelsea	*John F. Welch	Health officer.
Chicopee	*Gertrude N. De Witt	Agent board of health.
Clinton	*Frederick E. Murphy	Do.
Danvers	*Hugo Nappe, R. N.	Health officer.
Dedham	Thomas P. Brennen	Inspector of health.
Easthampton	Clemence C. Buckner	Agent board of health.
Everett	*William F. Hogan	Do.
Fall River	*Ernest M. Morris, M. D., C. M.	Health commissioner.

City	Name of health officer	Official title
Massachusetts—Continued.		
Fitchburg	*Fred R. Brigham	Agent board of health.
Frammingham	*David Moxon, C. P. H.	Do.
Gardner	*William P. O'Donnell	Do.
Gloucester	George S. Rust, M. D.	Physician to board of health.
Greenfield	*George P. Moore	Agent board of health.
Haverhill	*George T. Lennon	Do.
Holyoke	*Daniel D. Mahoney	Do.
Lawrence	*Aime D. V. Bourget	Chairman board of health.
Leominster	*Hugh E. Crain	Agent board of health.
Lowell	*Francis J. O'Hare	Do.
Lynn	William T. Hopkins, M. D.	Commissioner of public health.
Malden	*Frederick Walmsley	Health inspector.
Marlboro	*John J. Cassidy	Agent board of health.
Medford	*John J. Carew	Health inspector.
Melrose	Clarence P. Holden, M. D.	Chairman board of health.
Methuen	Albert Slack	Clerk board of health.
Millford	Oscar C. Ayotte	Secretary board of health.
Milton	Paul W. Kimball	Agent board of health.
Natick	T. F. Morris	Do.
New Bedford	*William G. Kirschbaum	Agent and executive officer.
Newburyport	*W. N. O'Brien, Ph. G.	Agent board of health.
Newton	*Francis George Curtis, M. D.	Chairman board of health.
North Adams	*Douglas W. Hyde, S. E.	Agent board of health.
Northampton	George R. Turner	Do.
Northbridge	Daniel C. Duggan	Chairman board of health.
Norwood	James J. Mulvehill	Agent board of health.
Palmer	J. P. Schneider, M. D.	Chairman board of health.
Peabody	*Percy F. Murray	Agent board of health.
Pittsfield	*Willys M. Monroe, M. D.	Health officer.
Plymouth	William E. Curtin, M. D.	Do.
Quincy	Edmund B. Fitzgerald, M. D.	Health commissioner.
Revere	Francis Licata, M. D.	Chairman board of health.
Salem	*John J. McGrath	Agent board of health.
Saugus	Charles E. Light	Chairman board of health.
Somerville	Frank L. Morse, M. D.	Medical inspector and bacteriologist.
Southbridge	*Albert R. Brown	Agent board of health.
Springfield	*Jacob R. Sackett	Do.
Taunton	William H. Bennett, M. D.	Chairman board of health.
Wakefield	David Taggart	Health officer.
Waltham	C. B. Fuller, M. D.	Director, public welfare commission.
Watertown	*Arthur E. Burke	Health officer.
Webster	Bernard L. Plouffe, M. D.	Do.
West Springfield	J. J. Lysaght	Agent board of health.
Westfield	Robert M. Marr, M. D.	Chairman board of health.
Weymouth	F. L. Doucett, M. D.	Health officer.
Winchester	*Maurice Dinneen	Do.
Winthrop	*William D. Childress	Do.
Woburn	*Edward T. Gorman	Agent and secretary.
Worcester	*Thomas F. Kenney, M. D.	Director of health and school hygiene.
Michigan:		
Adrian	J. P. Bland, M. D.	Health officer.
Alpena	D. A. Cameron, M. D.	City physician.
Ann Arbor	John A. Wessinger, M. D.	Health officer.
Battle Creek	*A. A. Hoyt, M. D.	Health officer and registrar.
Bay City	G. W. Moore, M. D.	Health officer.
Benton Harbor	Edwin R. Taylor, M. D.	Director of public health.
Cadillac	*Sair C. Moore, M. D.	County health commissioner.
Detroit	Board of Health—	
	Hugo A. Freund, M. D.	President.
	Gustavus D. Pope	Vice President.
	William H. Maybury	
	William A. Evans, M. D.	
	Executive staff, department of health—	
	*Henry F. Vaughan, D. P. H.	Commissioner of health.
	Bert U. Estabrook, M. D.	Deputy commissioner.
	Fred M. Meader, M. D.	Deputy commissioner and director of medical service.
	Carl E. Buck, D. P. H.	Deputy commissioner and executive officer.
	John F. Norton, Ph. D.	Director of laboratories.
	A. C. Thompson, D. D. S.	Director of school dental service.
	Miss Grace Ross, R. N.	Superintendent of nursing.
	Ward F. Seeley, M. D.	Director of Herman Kiefer Hospital maternity division.
	Russell W. Alles, M. D.	Director prenatal division.
	Maj. John F. Roehl	Director of special investigation.
	R. S. Dixon, M. D.	Director of division of venereal diseases.
	Henry D. Chadwick, M. D.	Tuberculosis controller.

City	Name of health officer	Official title
Michigan—Continued.	Executive staff, department of health—Continued.	
Detroit—Continued.	B. H. Douglas, M. D.....	Superintendent of William H. Maybury Sanatorium.
	George E. Phillips.....	Superintendent of Herman Kiefer Hospital.
	F. Gardner Legg, C. E.....	Director of sanitary engineering.
	Edward C. Schultz.....	Director of dairy and food inspection.
	A. M. Wehenkel, M. D.....	Director of division of tuberculosis.
	Don W. Gudakunst, M. D....	Director of division of school health service.
	Don J. Barnes, M. D.....	Director of division of child welfare.
	F. B. Broderick, M. D.....	Director of division of hairdressers and cosmeticians.
	G. Arthur Blakeslee.....	Director of division of vital statistics.
Escanaba.....	*Harry J. Defnet, M. D.....	Commissioner of health.
Flint.....	*C. V. Merritt, M. D.....	Health officer and registrar.
Grand Rapids.....	*C. C. Slemmons, M. D.....	Health officer.
Hamtramck.....	Charles Reynolds Sheridan, M. D.	Commissioner of health.
Highland Park.....	William N. Braley, M. D.....	Health officer.
Holland.....	William Westrate, M. D.....	Do.
Ironwood.....	*Louis Dorpat, M. D.....	Do.
Ishpeming.....	*George G. Barnett, M. D.....	City health officer.
Jackson.....	*Floyd R. Town, M. D.....	Health officer.
Kalamazoo.....	*Alvin H. Rockwell, M. D.....	Do.
Lansing.....	*S. Rowland Hill, M. D.....	Health director.
Marquette.....	*T. R. Laughbaum, M. D.....	Do.
Monroe.....		
Mount Clemens.....	W. J. Kane, M. D.....	Health officer.
Muskegon.....	R. J. Harrington, M. D.....	Do.
Muskegon Heights.....	William S. Chapin, M. D.....	Do.
Owosso.....	R. Wallace Teed, M. D.....	Health director.
Pontiac.....	*C. A. Neafie, M. D., M. S. P. H.	Director of public health.
Port Huron.....	A. L. Callery, M. D.....	Health officer.
River Rouge.....	Claude Smith, M. D.....	Do.
Saginaw.....	*William Henry Pickett, M. D., C. P. H.	Do.
Sault Ste. Marie.....	*J. J. Griffin, M. D.....	City health officer.
Traverse City.....	George A. Holliday, D. D. S., M. D.	Health officer.
Wyandotte.....	Arthur Paul Schulz, M. D.....	Commissioner of health and sanitation.
Minnesota:		
Albert Lea.....	Donald S. Branham, M. D.....	Health officer.
Austin.....	Charles C. Allen, M. D.....	Do.
Brainerd.....	J. A. Thabes, jr., M. D.....	Do.
Duluth.....	Lincoln A. Sukeforth, M. D.....	Director of public health.
Fairbault.....	Frederick U. Davis, M. D.....	Health commissioner.
Hibbing.....	Theo. A. Estrem, M. D.....	Health officer.
Mankato.....	J. A. Butzer, M. D.....	Do.
Minneapolis.....	*Francis Edward Harrington, LL. D., M. D.	Commissioner of health.
Rochester.....	C. H. Mayo, M. D. ¹	Health officer.
St. Cloud.....	J. N. Libert, M. D.....	City physician.
St. Paul.....	*Benjamin Franklin Simon, M. D.	Health officer.
Virginia.....	Robert P. Pearsall, M. D.....	Do.
Winona.....	William V. Lindsay, M. D.....	Do.
Mississippi:		
Biloxi.....	George F. Carroll, M. D.....	City health officer.
Columbus.....	William L. Stallworth, M. D.....	Do.
Greenville.....	*H. P. Rankin, M. D.....	Director county health department.
Hattiesburg.....	*W. D. Beacham, M. D.....	Do.
Jackson.....	*W. E. Noblin, M. D.....	County health officer.
Laurel.....	*Hardie Rogers Hays, M. D., C. P. H.	Do.
Meridian.....	*J. T. Gooze, M. D.....	Director county health department.
Natchez.....	*L. Wallin, M. D.....	Do.
Vicksburg.....		
Missouri:		
Cape Girardeau.....	*Robert Wilson.....	Health officer.
Carthage.....	Ephraim D. Hatcher, M. D.....	City physician.
Columbia.....	W. A. Norris, M. D.....	City health commissioner.
Hannibal.....	*E. M. Lucke, M. D.....	Field agent, United States Public Health Service.
Independence.....	F. L. Cook, M. D.....	City physician.
Jefferson City.....	William A. Clark, M. D.....	Do.

¹ Full-time deputy health officer, D. C. Lockhead, M. D., D. P. H.

City	Name of health officer	Official title
Missouri—Continued.		
Joplin.....	*M. B. Harutun, M. D.....	Commissioner of health and sanitation.
Kansas City.....	*Calvin L. Cooper, M. D.....	Director of health.
Moberly.....	J. Maddox, M. D.....	Health commissioner.
St. Joseph.....	William Wallace Gray, M. D.....	Health officer.
St. Louis.....	*Max C. Starkloff, M. D.....	Health commissioner.
Sanitary section.....	Max Kaufman.....	Deputy health officer.
Vital statistics section.....	Walter Cook.....	Director.
Dental section.....	Leon Grosch.....	Do.
Chemical-bacteriological section.....	Dr. Harbard Towles.....	Do.
Communicable disease section.....	Thomas Buckland.....	Chief chemist.
Veneral disease section.....	Dr. J. C. Willett.....	Chief bacteriologist.
Municipal visiting nurses.....	Dr. J. A. Smith.....	Director.
Tuberculosis controller.....	Dr. Eugene Brown.....	Chief physician.
Sedalia.....	Mrs. Bertha Yenick.....	Director.
Springfield.....	Dr. Howard Dell.....	Do.
Webster Groves.....	Alpheus L. Pollard, M. D.....	City physician.
Montana:	*Lon Sharp.....	Commissioner of health and sanitation.
Anaconda.....	Carl C. Irick, M. D.....	Health commissioner.
Billings.....	J. L. O'Rourke, M. D.....	City health officer.
Butte.....	Albert E. Stripp, M. D.....	Do.
Great Falls.....	Joseph J. Kane, M. D.....	City physician.
Helena.....	*Thomas F. Walker, M. D.....	Health officer.
Missoula.....	*Arthur Jordan, M. D.....	Field agent, United States Public Health Service.
Nebraska:	*F. D. Pense, M. D.....	Health officer.
Grand Island.....	J. G. Woodin, M. D.....	City physician.
Lincoln.....	M. F. Arnholt, M. D.....	Superintendent of health.
North Platte.....	J. B. Redfield, M. D.....	City physician.
Omaha.....	A. S. Pinto, M. D.....	Health commissioner.
Nevada:		
Reno.....	Albert Franklin Adams, Ph. G., M. D.....	City health officer.
New Hampshire:		
Berlin.....	*Eli A. Marcoux, B. S. in Ch. E.....	Health officer and milk inspector.
Claremont.....	William P. Prescott.....	Health officer.
Concord.....	*Charles E. Palmer.....	Sanitary officer.
Dover.....	*William E. Whiteley.....	Executive officer.
Keene.....	*Fred C. Nims.....	Health officer.
Laconia.....	Richard W. Robinson, M. D.....	Secretary board of health.
Manchester.....	*Howard A. Streeter, M. D.....	Health officer.
Nashua.....	*Eugene Hysette.....	Do.
Portsmouth.....	John D. Carty, M. D.....	Sanitary inspector and bacteriologist.
Rochester.....	Charles E. Goodwin.....	Health officer.
New Jersey:		
Asbury Park.....	*Budd H. Obert.....	Health officer and registrar of vital statistics.
Atlantic City.....	Samuel L. Salasin, M. D.....	Health officer.
Bayonne.....	William W. Brooke, M. D.....	Do.
Belleville.....	*Eugene T. Berry.....	Do.
Bloomfield.....	*Joseph C. Salle, Ph. G., D. V. S., D. O.....	Do.
Bridgeton.....	*Charles E. Bellows, Ph. G.....	Sanitary inspector.
Camden.....	*Arthur L. Stone, M. D.....	Director of public health.
Cartaret.....		
Clifton.....	Jeremiah P. Quinlan.....	Health officer.
Collingswood.....	Ralph Wright, M. D.....	Medical inspector.
Dover.....	*John G. Taylor.....	Health officer.
East Orange.....	*Frank J. Osborne.....	Health officer and secretary.
Elizabeth.....	*Louis J. Richards, S. B. in S. E.....	Health officer.
Englewood.....	*John A. Manson.....	Sanitary inspector.
Garfield.....	Charles B. Bleasby, M. D.....	Health officer.
Gloucester.....	J. Alonzo Beek, M. D.....	Do.
Hackensack.....	*L. Van D. Chandler.....	Do.
Harrison.....	*John T. McClure.....	Do.
Hoboken.....	J. F. X. Stack, M. D.....	Health commissioner.
Irvington.....	*William E. Bailey.....	Acting health officer.
Jersey City.....	*Denis J. Sullivan.....	Health officer.
Kearny.....	*Amos Field, jr.....	Do.
Lodi.....	Henry H. Brevoort, M. D.....	Health inspector.
Long Branch.....	*R. Clifford Erickson.....	Health officer.
Millville.....	James S. Knowles, M. D.....	Acting health officer.
Montclair.....	*Carl T. Pomeroy, C. P. H.....	Health officer.
Morristown.....	*John F. Kilkenny.....	Do.
New Brunswick.....	E. Irving Cronk, M. D.....	Do.
Newark.....	*Charles V. Craster, M. D. D. P. H.....	Do.
Nutley.....		

City	Name of health officer	Official title
New Jersey—Continued.		
Orange.....	*Mrs. Lenore Y. Wylie, R. N.....	Health officer and registrar of vital statistics.
Passaic.....	John N. Ryan, M. D.....	Health officer.
Paterson.....	*Frederick P. Lee, M. D.....	Do.
Perth Amboy.....	*Charles S. Thompson, D. V. S.....	Do.
Phillipsburg.....	Alma L. Williston, M. D.....	Town physician.
Plainfield.....	*N. J. Randolph Chandler.....	Health officer.
Rahway.....	*Fred M. Williams.....	Do.
Ridgefield Park.....	*William F. Reynolds, D. V. M.....	Do.
Rutherford.....	*Marine Dunn.....	Sanitary inspector.
Summit.....	Henry Paul Dengler, M. D.....	Health officer.
Trenton.....	*Alton S. Fell, M. D.....	Do.
Union City.....	Grant P. Curtis, M. D.....	Do.
Weehawken.....	Jacob M. Stein, M. D.....	Town physician.
West New York.....	*Rudolph Kunre.....	Chief inspector.
West Orange.....	*David E. Buckley.....	Health officer and registrar.
Westfield.....	*Andrew Carney.....	Executive officer.
New Mexico:		
Albuquerque.....	*James R. Scott, Ph. D., M. D.....	County health officer.
New York:		
Albany.....	James W. Wiltse, M. D.....	Health officer.
Amsterdam.....	Julius Schiller, M. D.....	Do.
Auburn.....	Thomas C. Sawyer, M. D.....	Do.
Batavia.....	E. F. Will, M. D.....	Do.
Beacon.....	Charles B. Dugan, Ph. B., M. D.....	Do.
Binghamton.....	Chalmer J. Longstreet, M. D.....	Do.
Buffalo.....	*Francis E. Fronczak, LL. D., M. D., Dr. Sc. P. H.....	Health commissioner.
	Edward Durney, M. D.....	Deputy health officer.
	Charles A. Bentz, M. D.....	Do.
	Edward Durney, M. D.....	Director.
	Charles A. Bentz, M. D.....	Do.
Division of child hygiene.	J. N. Kiefer, M. D.....	Registrar.
Communicable disease and division of laboratories.	Frank Smering.....	Superintendent.
Division of vital statistics.	Stephen Bateson.....	Do.
Division of sanitation.	Edmund Mackey.....	Director.
Division of food and drugs.	E. M. Bell, M. D.....	Health officer.
Hygiene education.	Henry E. Elwood, jr., M. D.....	Do.
Cohoes.....	A. C. Knapp, M. D.....	Do.
Corning.....	George E. Ellis, M. D.....	Do.
Cortland.....	Reeve B. Howland, M. D.....	Do.
Dunkirk.....	D. W. Hardy, M. D.....	Do.
Elmira.....	William H. Runcie, M. D.....	Do.
Endicott.....	C. W. Grove, M. D.....	Do.
Freeport.....	Alex. L. Johnson, M. D.....	Do.
Fulton.....	James W. Graves, M. D.....	Do.
Geneva.....	G. E. Taylor, M. D.....	Do.
Glens Falls.....	Frank B. Conterman, M. D.....	Do.
Gloversville.....	*L. T. Genung, M. D.....	Health officer and school physician.
Herkimer.....	William M. Sill, M. D.....	Superintendent of health.
Hornell.....	Rollin O. Crosier, M. D.....	Health officer.
Hudson.....	Guy Vail Wilson, M. D.....	Do.
Ilion.....	Lester E. Sanford, M. D.....	Do.
Ithaca.....	A. S. Culkowski, M. D.....	Do.
Jamestown.....	George S. Eveleth, M. D.....	Do.
Johnson City.....	T. Edwin O'Brien, M. D.....	Do.
Johnstown.....	H. J. Shelley, M. D.....	Do.
Kingston.....	Frank W. Shipman, M. D.....	Commissioner of health.
Lackawanna.....	*Shirley W. Wynne, M. D., Dr. P. H.....	Do.
Little Falls.....	Herman T. Peck, M. D.....	Deputy health officer.
Lockport.....	Bernard F. Plunkett.....	Director.
Middletown.....	William H. Guilfooy, M. D.....	Do.
Mount Vernon.....	William H. Pound, M. D.....	Do.
New Rochelle.....	Edward L. Creeden, M. D.....	Acting director.
New York.....	Jules L. Blumenthal, M. D.....	Director.
	Miss Amelia H. Grant.....	Do.
	Charles F. Bolduan, M. D.....	Do.
Bureau—		
General administration.	William H. Park, M. D.....	Do.
Records.....	Thomas J. Burke, M. D.....	Health officer.
Sanitation.....	Edward E. Gillick, M. D.....	Do.
Preventable diseases.	Henry C. Lapp, M. D.....	Do.
Child hygiene.....	John W. Benton, M. D.....	Do.
Nursing.....	John A. Johnson, M. D.....	Health commissioner.
Public health education.		
Laboratories.....		
Newburgh.....		
Niagara Falls.....		
North Tonawanda.....		
Ogdensburg.....		
Olean.....		

City	Name of health officer	Official title
New York—Continued.		
Oneida.....	Donald H. Conterman, M. D.....	Health officer.
Oneonta.....		
Ossining.....	Robert R. Bloom, Ch. B., M. D.....	Do.
Oswego.....	Harvey S. Albertson, M. D.....	Do.
Peekskill.....	Fred A. Snowden, M. D.....	Do.
Port Chester.....	W. J. Sheehan, M. D.....	Do.
Port Jervis.....	G. Otto Pobe, M. D.....	Do.
Poughkeepsie.....	*William H. Conger, M. D.....	Do.
Rensselaer.....	James C. Sharkey, M. D.....	Do.
Rochester.....	*George W. Goler, M. D.....	Do.
Rome.....	Lewis N. Eames, M. D.....	Do.
Salamanca.....		
Saratoga Springs.....	Charles B. Small, M. D.....	Do.
Schenectady.....	J. H. Collins, M. D.....	Commissioner of health.
Syracuse.....	*George C. Ruhland, M. D.....	Do.
Tonawanda.....	John T. Harris, M. D.....	Health officer.
Troy.....	James H. Flynn, M. D.....	Commissioner of health.
Utica.....	Hugh H. Shaw, M. D.....	Health officer.
Watertown.....	George B. Van Doren, M. D.....	Do.
Watervliet.....	Charles A. Birmingham, M. D., C. M.....	Commissioner of health.
White Plains.....	Edwin G. Ramsdell, M. D.....	Health officer.
Yonkers.....	Clarence W. Buckmaster, M. D., C. P. H.....	Commissioner of health.
North Carolina:		
Asheville.....	*D. E. Sevier, M. D.....	Health officer.
Charlotte.....	*Wilbur Ashley McPhaul, M. D.....	City-county health officer.
Concord.....	*D. G. Caldwell, M. D.....	County health officer.
Durham.....	*J. H. Epperson, M. S., bacteri- ology.....	Superintendent of health.
Gastonia.....	McTyeire G. Anders, M. D.....	City physician.
Goldsboro.....	*Lacy W. Corbett, M. D.....	Health officer.
Greensboro.....	*C. Curtis Hudson, M. D.....	Do.
High Point.....	S. S. Coe, M. D.....	City physician.
Kinston.....	*Robert Sherwood McGeachy, M. D.....	Health officer.
New Bern.....	*D. E. Ford, M. D.....	County health officer.
Raleigh.....	*A. C. Bulla, M. D.....	Health officer.
Rocky Mount.....	*H. Lee Large, M. D.....	Superintendent department of health.
Salisbury.....	*Charles Wallace Armstrong, M. D.....	City and county health officer.
Wilmington.....	*John H. Hamilton, M. D.....	County health officer.
Wilson.....	*L. J. Smith, M. D.....	Health officer.
Winston-Salem.....	*R. L. Carlton, M. D.....	City health officer.
North Dakota:		
Fargo.....	*B. K. Kilbourne, M. D.....	Do.
Grand Forks.....		
Minot.....	F. E. Wheelon, M. D.....	Do.
Ohio:		
Akron.....	*Melville D. Ailes, LL. B., M. D.....	Director of health.
Alliance.....	Earl Mussleman, LL. B., M. D.....	Health Commissioner.
Ashland.....	E. L. Clem, M. D.....	Director of public welfare.
Ashtabula.....	A. J. Pardee, M. D.....	Health officer.
Barberton.....	W. A. Mansfield, M. D.....	Health commissioner.
Bellefontaine.....	Arthur J. McCracken, M. D.....	City health commissioner.
Bucyrus.....	W. G. Carlisle, M. D.....	Health commissioner.
Cambridge.....	Clyde L. Vorhies, M. D.....	Do.
Campbell.....	J. S. Mariner, M. D.....	Do.
Canton.....	F. M. Sayre, M. D.....	Do.
Chillicothe.....	*R. E. Bower, Ph. B., M. D.....	Do.
Cincinnati.....	*William H. Peters, M. D.....	Do.
Cleveland.....	*H. L. Rockwood, M. D.....	Commissioner of health,
Division—		
Communicable dis- eases.....	T. G. Duncan, M. D.....	Director.
Child hygiene.....	R. J. Ochsner, M. D.....	Do.
Food and drug admin- istration.....	H. J. Knapp, M. D.....	Do.
Meat and dairy.....	R. F. Leslie, D. V. M.....	Do.
Cleveland Heights.....	*Robert Lockhart, M. D.....	Director of health.
Columbus.....	*James A. Beer, M. D.....	Health commissioner.
Conneaut.....	Inez Hyatt, M. D.....	Do.
Coshocton.....	*D. M. Criswell, M. D.....	Do.
Cuyahoga Falls.....	*R. H. Markwith, M. D.....	Do.
Dayton.....	*A. O. Peters, M. D.....	Do.
East Cleveland.....	George W. Stober, M. D.....	Director of health.
East Liverpool.....	Edward W. Miskall, M. D.....	Health commissioner.
Elyria.....	G. E. French, M. D.....	Do.
Findlay.....	*K. B. Clark.....	Do.
Fostoria.....	*A. V. Parsej.....	Do.
Fremont.....	E. L. Vermilya, M. D.....	Do.
Hamilton.....	*C. J. Baldrige, B. L. M. D.....	Do.

City	Name of health officer	Official title
Ohio—Continued.		
Ironton.....	Ralph F. Massie, M. D.	Health commissioner.
Lakewood.....	Wallace J. Benner, M. D.	Do.
Lancaster.....	Clifford B. Snider, M. D.	Do.
Lima.....	James B. Poling, M. D.	Do.
Lorain.....	Valloyd Adair, M. D.	Do.
Mansfield.....	*Theodore R. Meyer, M. D.	Do.
Marietta.....	J. B. McClure, M. D.	Do.
Marion.....	*C. M. Tobin.....	Sanitary commissioner.
Martins Ferry.....	*John Donovan.....	Health commissioner.
Massillon.....	*John H. Williams.....	Do.
Middletown.....	*G. D. Lummis, M. D.	Do.
New Philadelphia.....	*Joseph Blickensderfer, M. D.	Do.
Newark.....	W. H. Knauss, M. D.	Do.
Niles.....	W. A. Werner, M. D.	Do.
Norwood.....	L. O. Saur, M. D.	Do.
Piqua.....	J. G. Freshour, M. D.	Do.
Portsmouth.....		
Salem.....	Thomas Teasdale Church, M. D.	Do.
Sandusky.....	*F. M. Houghtaling, M. D.	Do.
Springfield.....	*Howard C. Lisle, Ph. G. M. D.	Health director.
Steubenville.....	*Julius A. Pizzoferrato.....	Health commissioner.
Tiffin.....	J. A. Gosling, M. D.	Do.
Toledo.....	*Paul F. Orr, M. D.	Do.
Warren.....	M. T. Knappenberger, M. D.	Do.
Youngstown.....	H. E. Welch, M. D.	Commissioner of health and wel- fare.
Zanesville.....	D. J. Evans, M. D.	Superintendent of health and sanitation.
Oklahoma:		
Ardmore.....	A. Y. Easterwood M. D.	City health officer.
Bartlesville.....	Elizabeth Chamberlin, M. D.	City superintendent of health.
Chickasha.....	H. C. Antle, M. D.	Do.
Enid.....	R. C. Baker, M. D.	Do.
Guthrie.....	William C. Miller, M. D.	City health officer and physician.
McAlester.....	*Charles M. Pearce, M. D.	Superintendent of health.
Muskogee.....	I. C. Wolfe, M. D.	City health officer.
Oklahoma City.....	*Walter H. Miles, M. D.	Director of health.
Okmulgee.....	L. B. Torrance, M. D.	City physician.
Sapulpa.....	P. K. Lewis, M. D.	Superintendent of health.
Shawnee.....	T. C. Sanders, M. D.	City superintendent of health.
Tulsa.....		
Oregon:		
Astoria.....	Nellie S. Vernon, M. D.	County and city health officer.
Eugene.....	Seth M. Kerron, M. D.	City health officer.
Portland.....	*John G. Abele, M. D.	Do.
Salem.....	*Vernon A. Douglas, M. D.	City-county health officer.
Pennsylvania:		
Aliquippa.....	*James E. Tanner.....	Health officer.
Allentown.....	*J. Treichler Butz, D. D. S., M. D.	Do.
Altoona.....	*T. G. Herbert.....	Chief, bureau of health.
Ambridge.....		
Beaver Falls.....	*Nelson W. Osmond.....	Health officer and plumbing in- spector.
Berwick.....	*Charles E. Ross.....	Health officer.
Bethlehem.....	F. J. Conahan, M. D.	City health physician.
Braddock.....	*James E. Wills.....	Health officer.
Bradford.....	*Carl L. Peterson.....	Do.
Bristol.....	John M. Wright.....	Do.
Butler.....	*J. Fred Leetch.....	Do.
Canonsburg.....	*J. Martin Templeton.....	Do.
Carbondale.....	*P. J. Sheare.....	Do.
Carlisle.....	*John L. Glass.....	Do.
Carnegie.....	*Joseph Lewis.....	Ordinance officer.
Chambersburg.....	*Frank J. Croft.....	Health officer and secretary.
Charleroi.....	*W. M. Darby.....	Health inspector.
Chester.....	*Mark G. Murtaugh.....	Health officer and secretary.
Clairton.....	W. F. Connolly.....	Health officer.
Coatesville.....	Charles V. Peace.....	Do.
Columbia.....	George M. Rodenhauser.....	Do.
Connellsville.....	*John Irwin.....	Sanitary police.
Dickson City.....		
Donora.....	*Herman Lang.....	Health officer.
Du Bois.....	J. I. Brockbank, M. D.	Do.
Dunmore.....	Anthony Earley.....	Do.
Duquesne.....	*Emil Elmgren.....	Do.
Easton.....	J. James Condran, M. D.	City health officer.
Ellwood City.....	*Louis Young.....	Health officer.
Erie.....	J. R. Smith, M. D.	Do.
Farrell.....	*A. R. Maxwell.....	Do.
Franklin.....		
Greensburg.....	*T. R. Hunter.....	Do.
Harrisburg.....	John M. J. Raunick, M. D.	Director of health.
Hazleton.....	*Patrick J. Bonner.....	City health officer.

City	Name of health officer	Official title
Pennsylvania—Continued.		
Homestead	W. E. Lawson, M. D.	President board of health.
Jeanette	*Charles E. Walter	Chief health officer.
Johnstown	L. W. Jones, M. D.	Health officer.
Kingston	*J. F. Seward	Health officer and secretary board of health.
Lancaster	*Benjamin F. Charles	Health officer.
Lansford	James Dale	Do.
Latrobe	W. T. Osborne	Do.
Lebanon	John D. Boger, M. D.	Do.
Lewistown	H. E. Fetterolf	Do.
McKees Rocks		
McKeesport	*Daniel F. Marsh	Do.
Mahanoy City	*Joseph B. Kliendienst	Do.
Meadville		
Monessen	*Francis E. Gibson	City health officer.
Mount Carmel	W. F. Stine	Health officer.
Nanticoke	*H. Judd Abbott	City health officer.
New Castle	William L. Steen, M. D.	Health officer.
New Kensington		
Norristown	*Charles E. White	Do.
North Braddock	*George A. Shephard	Do.
Oil City	*William J. Lewis	Do.
Old Forge		
Olyphant	Frank Gülar	Do.
Philadelphia	*A. A. Cairns, M. D.	Director department of public health.
	Michael C. Goglia	Assistant director department of public health.
Division of health	William J. Wolf	Secretary.
Bureau of hospitals	William J. McAllister	Superintendent.
Philadelphia General Hospital, Thirty-Fourth and Pine Streets.		
Philadelphia Hospital for Contagious Diseases, Second and Luzerne Streets.		
Philadelphia Hospital for Mental Diseases, Byberry.		
Phoenixville	Allen L. Bevan	Health officer.
Pittsburgh	*Charles B. Maits, M. D.	Director department of public health.
Bureau of infectious diseases (including municipal and tuberculosis hospitals).	P. E. Marks, M. D.	Superintendent.
Bureau of sanitation	Charles Parkinson	Do.
Bureau of child welfare	H. J. Benz, M. D.	Do.
Bureau of food inspection	J. C. McNeil, M. D.	Do.
Bureau of smoke regulation.	H. B. Meller, C. E.	Do.
Pittston	*Michael A. McHale	Health officer.
Plymouth	H. G. Templeton, M. D.	Secretary board of health.
Pottstown	*A. John André	Health officer.
Pottsville		
Punxsutawney		
Reading	Ira J. Hain, M. D.	Do.
Scranton	R. R. Schultz, M. D.	Director department of health.
Shamokin	*Frederick Zeiser	Health officer.
Sharon	*L. C. Brainard	Sanitary officer.
Shenandoah	*Cyrus Geise	Health officer.
Steelton	*E. G. Butler	Do.
Sunbury	*Victor A. Koble	Do.
Swissvale	*Samuel L. Glasgow	Do.
Tamaqua	Lamont Perrine	Do.
Taylor	E. E. Edwards, M. D.	Do.
Tyrone	A. D. Mencer	Do.
Uniontown	*W. C. Hall	Do.
Vandergrift	S. E. Byers	Do.
Warren	R. N. Brown	Do.
Washington	*J. G. Dinsmore	Do.
Waynesboro	*Percy H. Snowberger	Do.
West Chester	Joseph Scattergood, M. D.	County medical inspector.
Wilkes-Barre		
Wilkinsburg	*J. M. Snyder	Health officer.
Williamsburg	E. T. Clark	Do.
Williamsport	R. F. Trainer, M. D.	Do.
Windber	S. W. McMullen	Chief of police.
York	J. Frank Small, M. D.	Director of public health.

City	Name of health officer	Official title
Rhode Island:		
Bristol.....	Adolph R. V. Fenwick, M. D.....	Superintendent of health.
Central Falls.....	Daniel S. Latham, M. D.....	Superintendent of health and city physician.
Cranston.....		Health officer.
Cumberland.....	Stephen A. Kenney, M. D.....	
East Providence.....		
Newport.....	Edward V. Murphy, M. D.....	Commissioner of health.
Pawtucket.....	Florian A. Ruest, M. D.....	Superintendent of health.
Providence.....	*Charles Value Chapin, LL. D., M. D.....	Superintendent of health and city registrar.
Warwick.....	R. F. Lockwood, M. D.....	Health officer.
West Warwick.....		
Westerly.....	Samuel C. Webster, Ph. G., M. D.....	Superintendent of health.
Woonsocket.....	Thomas S. Flynn, M. D.....	Health officer.
South Carolina:		
Anderson.....	*E. R. Van De Grift, D. V. M.....	Commissioner of health.
Charleston.....	*Leon Benov, M. D.....	Health officer.
Columbia.....	R. T. Jennings, M. D.....	Do.
Florence.....	*George D. Heath, M. D., Dr. P. H.....	Health commissioner.
Greenville.....	*Irving S. Barksdale, M. D.....	Commissioner of health.
Spartanburg.....		
Sumter.....	*J. R. Sumter.....	Health officer.
South Dakota:		
Aberdeen.....	M. C. Johnston, M. D.....	Do.
Sioux Falls.....	William E. Donahoe, M. D.....	Do.
Watertown.....	H. T. Kenney, M. D.....	City health officer.
Tennessee:		
Chattanooga.....	*Fred C. McIsaac, M. D.....	Director of health.
Jackson.....	Herman Hawkins, M. D.....	City physician.
Johnson City.....	*S. S. Moody, M. D.....	City health officer.
Knoxville.....	*W. H. Enneis, M. D., M. P. H.....	Health officer.
Memphis.....	*Lloyd Myers Graves, M. D.....	Superintendent city health department.
Nashville.....	*John Overton, M. D.....	City health officer.
Texas:		
Abilene.....	Scott W. Hollis, M. D.....	City and county health officer.
Amarillo.....	*H. H. Latson, M. D.....	City health officer.
Austin.....	*Lee E. Edens, M. D.....	Director of public health and welfare.
Beaumont.....	Dru McMickin, M. D.....	City health officer.
Brownsville.....	W. E. Spivey, M. D.....	Do.
Cleburne.....	M. T. Knox, M. D.....	Do.
Corpus Christi.....	Henry Robert Giles, M. D.....	Do.
Corsicana.....		
Dallas.....		
Del Rio.....	*Lane B. Cooke, M. D.....	Director of public health.
Denison.....	B. F. Orr, M. D.....	City health officer.
Eastland.....	Arch. G. Sneed, M. D.....	Do.
El Paso.....	E. R. Townsend, M. D.....	Do.
Fort Worth.....	*P. R. Outlaw, M. D.....	Do.
Galveston.....	*Arthur Heath Flickwir, Surgeon, U. S. P. H. S.....	Director of public health and welfare.
Houston.....	Walter Kleberg, M. D.....	City health officer.
Laredo.....	*Allen C. Hutcheson, M. D.....	Do.
Marshall.....	Galen Eads, M. D.....	City physician.
Orange.....	J. E. Reeves, M. D.....	City health officer.
Palestine.....	J. M. Colley, M. D.....	Do.
Paris.....	Davis Scott Hammond, M. D.....	Do.
Port Arthur.....	A. S. Pollock, M. D.....	Do.
Ranger.....	Walter C. Palmer, M. D.....	Do.
San Angelo.....	A. C. De Long, M. D.....	Do.
San Antonio.....	*W. A. King, M. D.....	Health officer.
Sherman.....	A. L. Ridings, M. D.....	Do.
Temple.....		
Texarkana.....	Wm. Hibbitts, M. D.....	City physician.
Tyler.....	Albert Woldert, Ph. G., M. D.....	City health officer.
Waco.....	T. E. Tabb, M. D.....	Do.
Wichita Falls.....	*H. D. Fillmore, M. D.....	Director of health and sanitation.
Utah:		
Logan.....		
Ogden.....	N. Henry Savage, M. D.....	Health commissioner.
Provo.....	Lloyd L. Cullimore, M. D.....	City physician.
Salt Lake City.....	W. Christopherson, Ph. G., M. D.....	Commissioner of Health.
Vermont:		
Barre.....	Marshall D. Lamb, M. D.....	City health officer.
Bennington.....	*Joseph M. Ayres.....	Health officer.
Burlington.....	*James W. Courtney, M. D.....	Do.
Rutland.....	George Rustedt, M. D.....	Do.

City	Name of health officer	Official title
Virginia:		
Alexandria.....	*W. Lewis Schafer, M. D.....	Health officer and clinician.
Charlottesville.....	*G. B. Young, M. D.....	Health officer.
Danville.....	*R. W. Garnett, M. D.....	Do.
Lynchburg.....	*Mosby G. Perrow, Ph. D.....	Director of public welfare.
Newport News.....	*G. Colbert Tyler, M. D.....	Health officer.
Norfolk.....	*Powhatan S. Schenck, M. D.....	Health commissioner.
Petersburg.....		
Portsmouth.....	*Lonsdale J. Roper, M. D.....	Director of public welfare.
Richmond.....	*W. Brownley Foster, M. D.....	Do.
Roanoke.....	*Coleman Bernard Ransone, M. D.....	Health officer.
Staunton.....	J. F. Fulton, M. D.....	Do.
Suffolk.....	*Challis H. Dawson, M. D.....	Director of public health.
Washington:		
Aberdeen.....	B. O. Swinehart, M. D.....	City health officer.
Bellingham.....	Isaac W. Powell, M. D.....	Do.
Bremerton.....	D. H. Polk, M. D.....	Do.
Everett.....	Carl W. Stomberg, M. D.....	Do.
Hoquiam.....	E. L. Calhoun, M. D.....	Do.
Seattle.....	*E. T. Hanley, M. D.....	Commissioner of health.
Spokane.....	*Ralph Hendricks, M. D.....	Health officer.
Tacoma.....	*Herman S. Judd, M. D.....	Director of health.
Vancouver.....	*George H. T. Sparling, M. D.....	County and city health officer.
Walla Walla.....	*J. E. Vanderpool, M. D.....	Do.
Yakima.....	*H. Storgaard, M. D.....	Do.
West Virginia:		
Bluefield.....	*David B. Lepper, M. D., C. P. H.....	City health director.
Charleston.....	Hugh B. Robins, M. D.....	Health commissioner.
Clarksburg.....	*Benjamin F. Matheny, M. D.....	City health officer.
Fairmont.....	*J. A. Jamison, M. D.....	Do.
Huntington.....	L. T. Vinson, M. D.....	Health officer.
Martinsburg.....	*W. Ross Cameron, M. D.....	City and county health officer.
Morgantown.....	*Harry H. Pierce, M. D., C. M.....	City health officer.
Moundsville.....		
Parkersburg.....	*Arthur D. Knott, M. D., P. H. D.....	City-county health officer.
Wheeling.....	*W. H. McLain, M. D.....	Do.
Wisconsin:		
Appleton.....	F. P. Dohearty, M. D.....	Health officer.
Ashland.....	C. O. Hertzman, M. D.....	Health commissioner.
Beloit.....	*C. W. Andrews, M. D.....	Health officer.
Eau Claire.....	L. H. Flynn, M. D.....	Do.
Fond du Lac.....	*G. B. McKnight, M. D.....	Health commissioner.
Green Bay.....	*H. S. Atkinson, M. D.....	City physician and health commissioner.
Janesville.....	Fred B. Welch, M. D.....	City health officer.
Kenosha.....	*Gustav Windesheim, M. D.....	Director of health.
La Crosse.....	*Anthony M. Murphy.....	Acting health commissioner.
Madison.....	*F. F. Bowman, B. L., M. D.....	Health officer.
Manitowoc.....	William G. Kemper, M. D.....	Commissioner of health.
Marinette.....	J. William Boren, M. D.....	Do.
Milwaukee.....	*John P. Koehler, M. D.....	Do.
	E. V. Brumbaugh, M. D.....	Deputy health officer.
School hygiene division.....	George P. Barth, M. D.....	Director.
Division of venereal diseases.....	William J. McKillip, M. D.....	Do.
Vital statistics.....	George E. Adams.....	Deputy registrar.
Division of tuberculosis.....	George R. Ernst, M. D.....	Director.
Contagious disease division.....	M. R. French, M. D.....	Do.
Division of food and sanitary inspection.....	Stanley Pilgrim, M. D.....	Do.
Bureau of laboratories.....	R. W. Cunliffe.....	Do.
Division of child welfare.....	E. V. Brumbaugh, M. D.....	Do.
Division of nurses.....	Alma Brunk, R. N.....	Do.
Oshkosh.....	*Edward Joseph Campbell, M. D.....	Health commissioner.
Racine.....	*W. W. Bauer, M. D.....	Health officer.
Sheboygan.....	*Herbert L. Wright, Ph. G., M. D., Dr. P. H.....	Commissioner of public health.
Stevens Point.....	F. R. Krembs, M. D.....	Commissioner of health and city physician.
Superior.....	*George H. Conklin, M. D.....	Commissioner of health.
Waukesha.....	Frank M. Scheele, M. D.....	Health commissioner.
Wausau.....	*L. F. Bugbee.....	Health officer.
West Allis.....	*Samuel C. McCorkle, M. D.....	Health commissioner.
Wyoming:		
Casper.....	H. R. Lathrop, M. D.....	County health officer.
Cheyenne.....	N. C. Nelson, M. D.....	Do.

STATE AND INSULAR HEALTH AUTHORITIES, 1929

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 1928 have been published in the Public Health Reports¹ for the information of health officers and others interested in public-health activities. The present volume (1929), like those formerly issued, has been compiled from information furnished by the respective State and insular health officers, and includes data as to appropriations and publications.

Where an officer has been reported to be a "whole-time" health officer, that fact is indicated by an asterisk (*). For this purpose a "whole-time" health 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

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

Bibb Graves, governor, ex officio chairman, Montgomery.

Fred W. Wilkerson, M. D., Montgomery.

W. D. Partlow, M. D., Tuscaloosa.

R. S. Hill, M. D., Montgomery.

W. S. Britt, M. D., Eufaula.

D. T. McCall, M. D., Mobile.

W. W. Harper, M. D., Selma.

John P. Stewart, M. D., Attalla.

J. S. McLester, M. D., Birmingham.

B. L. Wyman, M. D., Birmingham.

Executive health officer:

*Douglas L. Cannon, M. D., C. P. H., state health officer, Montgomery.

Secretary to executive health officer:

*Bessie A. Tucker, Montgomery.

Financial secretary:

*Adna Eley Alldredge, Montgomery.

Registrar of vital statistics:

*W. T. Fales, Sc. D., Montgomery.

*Ethel Hawley, chief clerk, Montgomery.

Laboratories of the State board of health:

General director—

*L. C. Havens, M. D., Montgomery.

Assistant director—

*Catherine Ridgeway, Montgomery.

Anniston branch—

*Katie Mae Wilson, Anniston.

Birmingham branch—

George A. Denison, Birmingham.

Mobile branch—

*C. H. Waite, Mobile.

Tennessee Valley—

*A. J. Perolio, M. D., Albany.

Tuscaloosa branch—

*Lucile Watt, Tuscaloosa.

Selma branch—

*Nellie K. Whitfield, Selma.

State sanitary engineer:

*G. H. Hazlehurst, C. E., M. C. E., Montgomery.

Assistant sanitary engineers:

*H. G. Menke, B. C. E., Montgomery.

*C. C. Kiker, B. C. E., Montgomery.

*T. H. Milford, B. C. E., Montgomery.

Communicable disease control:

*D. G. Gill, M. D., director, Montgomery.

County organization:

Divisional directors—

*C. L. Murphree, M. D., Gadsden.

*B. F. Austin, M. D., Birmingham.

A. H. Graham, M. D., Montgomery.

G. C. Marlette, M. D., Bay Minette.

Director of training base—

L. R. Poole, M. D., Wetumpka.

Public health nursing:

*Jessie L. Marriner, R. N., director, Montgomery.

*Francis Montgomery, R. N., assistant director, Montgomery.

*Annie Jewel Brown, R. N., assistant director, Montgomery.

Inspection:

*C. A. Abele, Ch. E., director, Montgomery.

*H. J. Thrasher, deputy inspector, Montgomery.

*H. W. Caldwell, deputy inspector, Montgomery.

*C. H. South, deputy inspector, oyster control, Mobile.

*J. W. Garrett, milk inspector, Selma.

*U. D. Franklin, milk inspector, Montgomery.

*F. H. Downs, milk inspector, Montgomery.

*C. G. Allen, milk inspector, Montgomery.

Appropriation for fiscal year ending September 30, 1929:

Central administration.....\$405,876.95

County health work, per county.....2,500.00

Milk inspection of dairy plants.....12,000.00

¹ Reprints Nos. 83, 123, 190, 286, 344, 405, 438, 544, 605, 706, 775, 871, 949, 1043, 1106, 1188, and 1254, from the Public Health Reports.

ALASKA**Board of health:**

George A. Parks, governor, Juneau.

Harry C. De Vigne, M. D., commissioner of health, Juneau.

Executive health officer:

Harry C. De Vigne, M. D., commissioner of health, Juneau.

Assistant commissioners of health:

Curtis Welch, M. D., Nome.

J. A. Sutherland, M. D., Fairbanks.

A. H. Blakemore, Cordova.

Appropriation for 1927-28, \$18,100.

ARIZONA**State board of health:**

John C. Phillips, governor, president, Phoenix.

K. Berry Peterson, attorney general, vice president, Phoenix.

R. J. Stroud, M. D., secretary, Tempe.

Executive health officer:

*R. J. Stroud, M. D., State superintendent of public health, Tempe.

Executive secretary:

*Maud J. Tansey, Phoenix.

State registrar of vital statistics:

*R. J. Stroud, M. D., Tempe.

State bureau of vital statistics:

*Anna M. Galbraith, Phoenix.

State laboratory:

*Jane H. Rider, director, Tucson.

*Marion E. Stroud, bacteriologist, Tucson.

Appropriations for the years ending June 30, 1930 and 1931:

State board of health—

Salaries.....	\$12,800
Operating expense.....	5,450
Traveling expense.....	2,500
Capital investment.....	500
Repairs and replacements.....	150

Total for one year..... 21,400

Total for two years..... 42,800

State laboratory—

Salaries.....	6,840
Operating expense.....	700
Traveling expense.....	900
Capital investment.....	500

Total for one year..... 8,940

Total for two years..... 17,880

ARKANSAS**Board of health:**

E. L. Watson, M. D., president, Newport.

O. L. Williamson, M. D., Marianna.

A. S. Gregg, M. D., Fayetteville.

R. M. Eubanks, M. D., Little Rock.

L. D. Duncan, M. D., Waldron.

W. P. Parks, M. D., Hot Springs.

F. O. Mahony, M. D., El Dorado.

Executive health officer:

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

Bureau of vital statistics:

*Mrs. Mary Ellis Brown, statistician, Little Rock.

Hygienic laboratory:

*H. V. Stewart, associate director, Little Rock.

Bureau of sanitation and malaria control:

*M. Z. Bair, chief sanitary engineer, Little Rock.

Bureau of child hygiene:

*C. W. Garrison, M. D., director, Little Rock.

County health units:

*Gordon Hastings, M. D., director, Little Rock.

Appropriations for biennial period ending June 30, 1931:

Executive department, salaries and miscellaneous.....	\$31,600
Bureau of vital statistics.....	36,800
Payment of local registrars.....	31,000
Malaria control.....	9,760
Bureau of sanitation.....	28,400
Bureau of child hygiene.....	3,000
Hygienic laboratory.....	21,240
County Health units.....	10,000
Total.....	171,800

CALIFORNIA**Board of public health:**

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

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

Walter M. Dickie, M. D., director of public health, Sacramento.

A. J. Scott, jr., M. D., Los Angeles.

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

Adelaide Brown, M. D., San Francisco.

Robert A. Peers, M. D., Colfax.

Department of public health:

*Walter M. Dickie, M. D., director of public health, Sacramento.

Epidemiologist:**District health officer:**

*Gavin Telfer, M. D., southern division.

Chief sanitary inspector:

*Edward T. Ross, Sacramento.

Chief cannery inspector:

*Milton P. Duffy, San Francisco.

Vital statistics:

*L. E. Ross, registrar, Sacramento.

Bureau of registration nurses:

*Sarah G. White, R. N., chief, Sacramento.

Bureau of tuberculosis:

*Edythe L. M. Tate-Thompson, chief, Sacramento.

Bureau of food and drugs:

*M. E. Jaffa, chief, Berkeley.

Bacteriological laboratory:

*W. H. Kellogg, M. D., chief, Berkeley.

Bureau of sanitary engineering:

*C. G. Gillespie, C. E., chief, Berkeley.

Bureau of child hygiene:

*Ellen S. Stadtmuller, M. D., chief, San Francisco.

Malaria control:

*Edward Stuart, C. E., in charge.

Appropriations for biennial period ending June 30, 1930 (for eightieth and eighty-first fiscal years):

Administration—

For support.....	\$569,500
Aid to mosquito abatement districts.....	10,000
Division of cannery inspection—	
For support.....	148,720
(Payable from cannery inspection funds.)	
Nurses registration bureau—	
For support.....	35,680
Tuberculosis bureau—	
For support.....	46,900
For subsidies.....	640,000
Total.....	1,451,800

Other sources of revenue:

Fees for registration of nurses, \$10 each.
 Renewal of registration certificates, \$1 per year.
 Licensing of cold-storage warehouses, rated according to capacity.
 Fines for violation of pure food and drugs act.
 Fees for licenses, \$10 each, and contributions, for credit to division of cannery inspection.
 Fees for certified copies of records.

Publications issued by health department:

Biennial report.
 Weekly bulletin.

COLORADO

Board of health:

Sherman Williams, M. D., president, Denver.
 S. R. McKelvey, M. D., secretary, Denver.
 J. S. Hasty, M. D., Lamar.
 Ben Beshoar, M. D., Trinidad.
 Paul J. Connor, M. D., Denver.
 Ralph M. Jones, D. O., Denver.
 C. A. Davlin, M. D., Alamosa.
 Charles W. Thompson, M. D., Pueblo.
 William P. Gasser, M. D., Loveland.

Executive health officer:

S. R. McKelvey, M. D., secretary, State board of health, Denver.

Bacteriologist:

William C. Mitchell, M. D., Denver.

Epidemiologist:

W. H. Twining, M. D., Denver.

State food and drug commissioner:

*S. H. Loeb, Denver.

Division of social hygiene:

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

Division of sanitary engineering:

*Dana E. Kepner, director, Denver.

Division of plumbing inspection:

*Irving H. Fuller, inspector, Denver.

Appropriations for fiscal years ending June 30, 1930 and 1931:

	1930	1931
Salaries.....	\$27,300	\$27,300
Laboratory equipment and supplies.....	2,000	2,000
Printing and publications.....	2,800	2,800
Traveling expenses.....	5,000	5,000
Samples and supplies (food).....	300	300
Veneral disease.....	20,000	20,000
Incidental expenses.....	1,750	1,750
Total.....	59,150	59,150

CONNECTICUT

Public health council:

S. B. Overlock, M. D.
 C. E. A. Winslow, D. P. H.
 James W. Knox.
 Edward P. Jones.
 James A. Newlands.
 David R. Lyman, M. D.

Executive health officer:

*Stanley H. Osborn, M. D., C. P. H., commissioner of health, Hartford.

Bureau of preventable diseases:

*Millard Knowlton, M. D., C. P. H., director.

Bureau of vital statistics:

*William C. Welling, director.

Bureau of public-health nursing:

*Sarah R. Addison, R. N., director.

Bureau of child hygiene:

*A. Elizabeth Ingraham, M. D.

Bureau of public-health instruction:

*Elizabeth C. Nickerson, C. P. H.

Bureau of laboratories:

*F. Lee Mickle, director.

Bureau of sanitary engineering:

*Warren J. Scott, director.

Division of occupational diseases:

*Albert S. Gray, M. D.

Division of venereal diseases:

*Henry P. Talbot, M. D.

Division of mental hygiene:

*James L. McCartney, M. D., chief.

Division of mouth hygiene:

Clyde R. Salmons, D. D. S., chief.

Division of medical registration:

Ruth H. Monroe, chief.

Appropriation for fiscal period ending June 30, 1931 (two years), \$648,619.

Publications issued by health department:

Weekly bulletin.
 Monthly bulletin.
 Annual vital-statistics report.
 Annual report of State department of health.
 Miscellaneous pamphlets.

DELAWARE

State board of health:

William P. Orr, M. D., president, Lewes.
 Mrs. Charles Warner, vice president, Wilmington.
 Robert E. Ellegood, M. D., Wilmington.
 Margaret I. Handy, M. D., Wilmington.
 Mrs. F. G. Tallman, Wilmington.
 W. R. Pierce, M. D., Milford.
 Mrs. Arthur Brewington, Delmar.
 Charles R. Jefferis, Jr., D. D. S., Wilmington.

Executive health officer:

*Arthur C. Jost, M. D., C. M., Dover.

Director of laboratory:

*Rowland D. Herdman, Dover.

Director of child hygiene:

*Clealand A. Sargent, M. D., Dover

Sanitary engineer:

*Richard C. Beckett, Dover.

Superintendent of Brandywine sanatorium:

*Lawrence D. Phillips, M. D., Marshallton.

Superintendent of Edgewood sanatorium:

*Elizabeth Van Vranken, R. N., Marshallton.

Appropriations for each fiscal year ending**June 30, 1930 and 1931:**

General administration.....	\$75,000
Hygienic laboratory.....	9,000
Edgewood sanatorium for colored tuberculous patients.....	14,000
Brandywine sanatorium for white tuberculous patients.....	40,000
Total.....	138,000
Permanent improvement of Brandywine sanatorium for white tuberculous patients, (1930).....	35,000
Special vote for Brandywine sanatorium.....	15,000

Publications:

- Biennial report.
- Bi-monthly health news.
- Bulletins on health subjects.

DISTRICT OF COLUMBIA**Executive health officer:**

- *William C. Fowler, M. D., health officer, Washington.

Assistant health officer:

- *Edward J. Schwartz, M. D., Washington.

Chief clerk and deputy health officer:

- *Arthur G. Cole, Washington.

Chief bureau of preventable diseases and director bacteriological laboratory:

- *James G. Cumming, M. D., Washington.

Bacteriologist:

- *John E. Noble, Washington.

Serologist:

- *Jesse P. Porch, D. V. M., Washington.

Chemist:

- *John B. Reed, Washington.

Chief sanitary inspector:

- *J. Frank Butts, Washington.

Director child hygiene service:

- *Hugh J. Davis, M. D., 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 the fiscal year ending**June 30, 1930:**

Salaries.....	\$181,690
Prevention of communicable diseases.....	45,000
Disinfecting service.....	3,700
Isolation wards at hospitals.....	24,000
Milk and food inspection and regulation.....	8,100
Dispensary service, including treatment of tuberculosis and venereal diseases.....	24,200
Maintaining a child hygienic service.....	54,000
Hygiene and sanitation, public schools.....	78,600
Laboratory service.....	3,000
Miscellaneous.....	9,900
Total.....	432,190

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:**

- Chas. H. Mann, president, Jacksonville.
- H. Mason Smith, M. D., Tampa.
- W. D. Nobles, M. D., Pensacola.

Executive health officer:

- *Henry Hanson, M. D., State health officer, Jacksonville.

Diagnostic laboratories:

- *Pearl Griffith, B. E., acting director, Jacksonville.

Bureau of vital statistics:

- *Stewart G. Thompson, D. P. H., director, Jacksonville.

Bureau of communicable diseases:

- *F. A. Brink, M. D., director, Jacksonville.

Bureau of sanitary engineering:

- *E. L. Filby, C. E., director, Jacksonville.

Bureau of child hygiene and public health nursing:

- *Mrs. Laurie Jean Reid, R. N., director, Jacksonville.

Appropriation for health department:

- One-half mill tax levied upon the assessable property of the State for the year ending June 30, 1929.

Publications issued by health department:

- Pamphlets covering all phases of public health.
- Public health information disseminated through the weekly and daily papers of the State.
- Florida health notes.
- Annual reports.

GEORGIA**Board of health:**

- Robert F. Maddox, president, Atlanta.
- James H. McDuffie, M. D., vice president, Columbus.
- T. F. Abercrombie, M. D., secretary, Atlanta.
- Charles H. Richardson, M. D., Macon.
- A. D. Little, M. D., Thomasville.
- John W. Daniel, M. D., Savannah.
- D. M. Carter, M. D., Madison.
- J. G. Dean, M. D., Dawson.
- John A. Rhodes, M. D., Crawfordville.
- A. C. Shamblyn, M. D., Rome.
- C. R. Brice, D. D. S., Gainesville.
- A. A. Lawry, D. D. S., Valdosta.
- M. S. Brown, M. D., Fort Valley.
- M. L. Duggan, State superintendent of schools, ex officio, Atlanta.
- J. M. Sutton, State veterinarian, ex officio, Atlanta.

Executive health officer:

- *T. F. Abercrombie, M. D., commissioner, Atlanta.
- *Joe P. Bowdoin, M. D., deputy commissioner, Atlanta.

Division of venereal-disease control:

- *Joe P. Bowdoin, M. D., director, Atlanta.

Division of county health work:

- *M. E. Winchester, M. D., director, Atlanta.

Division of laboratories:

- *T. F. Sellers, director, Atlanta.

Division of sanitary engineering:

- *L. M. Clarkson, director, Atlanta.

State tuberculosis sanatorium:

- *Edson W. Glidden 2d, M. D., superintendent, Alto.

Bureau of vital statistics:

Division of child hygiene:

*Joe P. Bowdoin, M. D., director, Atlanta.

Georgia training school for mental defectives:

*John W. Oden, M. D., superintendent.

Division of accounting and purchasing:

*C. L. Tinsley, director, Atlanta.

Appropriations for the fiscal year ending Dec. 31, 1929:

General appropriation.....	\$110,000.00
Veneral-disease control.....	10,000.00
Maternity and infant hygiene.....	5,000.00
State tuberculosis sanatorium.....	210,000.00
Georgia training school for mental defectives.....	60,000.00
Total appropriation by legislature.....	395,000.00
Maternity and infancy (Federal Government funds, fiscal year ending June 30, 1929).....	29,530.55
Central administration, county health work (International Health Board funds).....	4,200.00
Central administration, malaria control (International Health Board funds).....	3,500.00
Grand total.....	432,230.55

HAWAII

Board of health:

F. E. Trotter, M. D., president and executive officer, Honolulu.

Harry R. Hewitt, attorney general, Honolulu.

A. G. Hodgins, M. D., Honolulu.

D. S. Bowman, Honolulu.

J. D. McVeigh, Honolulu.

J. Ordenstein, Honolulu.

George Denison, Honolulu.

Executive health officer:

*F. E. Trotter, M. D., president of the board of health, Honolulu.

Secretary:

*Mae R. Weir, Honolulu.

Bureau of sanitation:

*S. W. Tay, director, Honolulu.

*Robert L. Lam, sanitary engineer, Honolulu.

*A. K. Arnold, division supervisor, Oahu, Honolulu.

*C. Charlock, health officer, Island of Hawaii, Hilo.

*J. Caceres, division supervisor, Island of Hawaii, Hilo.

*R. C. Lane, division supervisor, Island of Maui, Wailuku.

*A. P. Christian, division supervisor, Island of Kauai, Kapaa.

Registrar general of vital statistics:

*M. H. Lemon, registrar general, Honolulu.

Bacteriologist:

*A. N. Sincalir, M. B., C. M., Honolulu.

Tuberculosis bureau:

*S. E. Doolittle, M. D., Honolulu.

Physician director, bureau of leprosy:

*James T. Wayson, M. D., Honolulu.

Bureau of maternal and infant hygiene:

*Mabel L. Smyth, R. N., director, Honolulu.

Food commissioner and analyst:

*M. B. Bairos, Honolulu.

Territorial hospital:

*A. B. Eckerdt, M. D., superintendent, Kaneohe, Oahu.

Leprosy settlement:

*R. L. Cooke, superintendent, Kalaupapa, Molokai.

*Robert L. McArthur, M. D., Physician, Kalaupapa, Molokai.

*George B. Tuttle, M. D., assistant physician, Kalaupapa, Molokai.

Appropriations, 1929-1931:

Board of health—General office—

Salary, president.....	\$14,400
Other personal services.....	68,380
Other current expenses.....	15,200
Repairs and alterations, Kalihi hospital, Kapiolani girls' home and Kalihi boys' home.....	16,000
Motor vehicles.....	1,500
Other equipment.....	750

Bureau of vital statistics—

Personal services.....	30,690
Other current expenses.....	12,000
Equipment.....	400

Bureau of sanitation—

Personal services.....	185,800
Other current expenses.....	25,000
Motor vehicles.....	5,000
Other equipment.....	665

Plague campaign—

Personal services.....	39,450
Other current expenses.....	16,000
Motor vehicles.....	800
Other equipment.....	730

Quarantine service: General service—

Personal services.....	23,720
Other current expenses.....	40,000
Motor vehicles.....	800
Other equipment.....	500

Quarantine service: Quarantine stations—

Personal services.....	6,995
Other current expenses.....	8,000
Equipment.....	450

Bacteriological laboratories—

Personal services.....	12,640
Other current expenses.....	3,000
Equipment.....	500

Agents (Government physicians)—

Personal services.....	79,800
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Pure food and drugs—

Personal services.....	21,600
Other current expenses.....	3,750
Equipment.....	300

Tuberculosis: Government hospital (Puumale home)—

Personal services.....	41,450
Other current expenses.....	40,000
Equipment.....	2,000

Appropriations, 1929-1931—Continued.

Tuberculosis: Private hospitals—	
Contributions to Leahi home.....	168, 000
Contributions to Kula sanitarium.....	96, 000
Contributions to Samuel Mahelona Memorial Hospital.....	72, 000
General medical assistants and nursing—	
Personal services.....	122, 195
Other current expenses.....	35, 500
Motor vehicles.....	6, 500
Other equipment.....	1, 700
Territorial hospital: Sanitarium—	
Personal services.....	18, 240
Other current expenses.....	15, 577
Equipment.....	1, 017
Territorial hospital—	
Personal services.....	261, 400
Other current expenses.....	199, 100
Motor vehicles.....	1, 500
Other equipment.....	78, 500
Highways, trails, etc.....	7, 500. 00
Frame dormitories.....	25, 000. 00
Leper settlement and Kalihi hospital—	
Personal services.....	217, 660. 00
Other current expenses.....	442, 000. 00
Motor vehicles.....	3, 700. 00
Other equipment.....	8, 000. 00
Highways, trails, etc.....	10, 000. 00
Maternity ward, Kalaupapa.....	2, 000. 00
New cottage at Kalaupapa.....	3, 000. 00
Grants, subsidies, and contributions.....	21, 200. 00
It being provided that from this amount of \$21,200 a cash allowance of \$10 per annum shall be paid to each inmate of the Kalihi hospital and the Kalaupapa settlement, which shall be paid quarterly.	
Kapiolani girls' home—	
Personal services.....	15, 330. 00
Other current expenses.....	31, 000. 00
Equipment.....	1, 550. 00
Kalihi boys' home—	
Personal services.....	28, 180. 00
Other current expenses.....	31, 000. 00
Equipment.....	750. 00
Boards of examiners—	
Personal services.....	250. 00
Other current expenses.....	700. 00
Maternal and infant hygiene—	
Personal services.....	36, 903. 84
It being provided, however, that the sum of \$23,451.92 of the above appropriation of \$36,903.84 or such amount thereof as remains unexpended, shall not be available for appropriation in the event that Federal funds are provided and made available as the same have been heretofore available.	

Appropriations, 1929-1931—Continued.

Aiding indigent persons released from the Kalihi hospital and leper settlement, Kalaupapa—	
Grants, subsidies, and contributions.....	3, 500. 00
Annual trips of children to visit parents, Kalaupapa—	
Other current expenses.....	800. 00
Relief of persons released from Kalihi hospital and Kalaupapa—	
Grants, subsidies, and contributions.....	12, 000. 00
Total.....	2, 697, 522. 84
Publications issued by health department:	
Annual report of president.	
Registrar general's report.	
Monthly morbidity and mortality report.	

IDAHO

Department of public welfare:

C. K. Macey, commissioner.	
*W. V. Leonard, State chemist and sanitary engineer.	
F. W. Almond, M. D., public health adviser.	
*Lawrence J. Peterson, bacteriologist.	
*Robert H. Pratt, dairy, food, drug, hotel, and sanitary inspector.	
*Robert Quarles, dairy, food, drug, hotel, and sanitary inspector.	
Executive health officer:	
*C. K. Macey, commissioner of public welfare, Boise.	
Bureau of child hygiene:	
*Mrs. Dorothy Ewen, State director.	
Appropriations for biennial period ending Dec. 31, 1930:	
Personal services.....	\$49, 000
Other expenses.....	16, 500
Venereal-disease control.....	5, 000
Child hygiene.....	5, 000
Total.....	75, 500

ILLINOIS

Board of public-health advisers:

Clifford U. Collins, M. D., chairman.	
James H. Hutton, M. D., secretary.	
R. J. Coultas, M. D., vice chairman.	
Arnold H. Kegel, M. D.	
W. A. Evans, M. D.	
Director of public health:	
*Andy Hall, M. D., Springfield.	
Assistant director of public health:	
*Thomas H. Leonard, M. D.	
Division of sanitation and engineering:	
*Harry F. Ferguson, C. E., chief sanitary engineer.	
Division of communicable diseases:	
*J. J. McShane, M. D., D. P. H., chief.	
Division of child hygiene and public-health nursing:	
*Grace S. Wightman, M. D., superintendent.	

Division of tuberculosis:

*Thomas H. Leonard, M. D., acting chief.

Division of laboratories:

*Thomas G. Hull, Ph. D., chief.

Division of vital statistics:

*Sheldon L. Howard, registrar.

Division of public-health instruction:

*Baxter K. Richardson, chief.

Division of social hygiene:

*C. C. Copelan, M. D., chief.

Division of hotel and lodging-house inspection:

*John Ransom, superintendent.

Appropriations for biennial period ending June 30, 1932:

Salaries.....	\$808, 140
Salaries State officers.....	30, 400
Office expenses.....	22, 500
Traveling expenses.....	130, 850
Operation.....	193, 834
Repairs and equipment.....	25, 998
Contingent.....	30, 000
Printing.....	52, 000
Postage.....	20, 000
Rabies.....	6, 000
Total.....	1, 319, 722

Publications issued by health department:

Illinois Health Quarterly.

Illinois Health Messenger (bimonthly).

Weekly press bulletin.

Educational health circulars.

INDIANA

Board of health:

A. J. Hostetler, M. D., president, Lagrange.

Calvin R. Marshall, M. D., vice president, Indianapolis.

John H. Green, M. D., North Vernon.

John W. Iddings, M. D., Crown Point.

William F. King, M. D., secretary, Indianapolis.

Executive health officer:

*William F. King, M. D., State health commissioner, Indianapolis.

Division of vital statistics:

*H. M. Wright, director, Indianapolis.

Laboratory of hygiene:

*C. F. Adams, M. D., B. S. A., director, Indianapolis.

Division of food and drugs:

*I. L. Miller, State food and drug commissioner, Indianapolis.

Milk laboratory:

*Frank C. Wilson, director, Indianapolis.

Water and sewage laboratory:

*Lewis S. Finch, sanitary engineer, Indianapolis.

Division of child hygiene:

*Ada E. Schweitzer, M. D., director, Indianapolis.

Division of communicable diseases:

*H. W. McKane, M. D., director, Indianapolis.

Epidemiologist and assistant secretary:

*Walter W. Lee, M. B., Indianapolis.

Division of school hygiene:

*H. R. Condrey, director, Indianapolis.

Division of housing:

*A. E. Wert, director, Indianapolis.

Department of public-health nursing:

*Eva F. McDougal, R. N., director, Indianapolis.

Appropriations for biennial period ending September 30, 1931, \$256,500 per annum.

IOWA

State department of health:

EX OFFICIO

John Hammill, governor, Des Moines.

Ed. M. Smith, secretary of state, Des Moines.

R. E. Johnson, treasurer of state, Des Moines.

J. W. Long, auditor of state, Des Moines.

M. G. Thornburg, secretary of agriculture, Des Moines.

Henry Albert, M. D., State health commissioner, Des Moines.

APPOINTEE BY GOVERNOR

H. R. Sugg, M. D., president, Clinton.

C. T. Lesan, M. D., Mount Ayr.

H. W. Plummer, M. D., Lime Springs.

W. A. Seidler, M. D., Jamaica.

J. D. Lowry, M. D., Fort Dodge.

Executive health officer:

*Henry Albert, M. D., commissioner of health, Des Moines.

Deputy commissioner of health:

*D. C. Steelsmith, M. D., Des Moines.

Chief clerk:

*Lynn Clemens, Des Moines.

Secretary:

*Naomi B. Wherry, Des Moines.

Division of preventable diseases:

*Howard A. Lanpher, M. D., director and epidemiologist, Des Moines.

Division of tuberculosis:

*Lucy McMichael, R. N., field agent, Des Moines.

Division of vital statistics:

*R. L. McLaren, director, Des Moines.

Division of sanitary engineering:

*A. H. Wieters, C. E., director, Des Moines.

Division of public health nursing:

*Edith S. Countryman, R. N., director, Des Moines.

Division of nursing education:

*Maude E. Sutton, R. N., director, Des Moines.

Division of public health education:

*D. Pirie-Beyea, State lecturer, Des Moines.

Division of examinations and licensures:

*H. W. Grefe, director, Des Moines.

Division of law enforcement:

*Herman B. Carlson, LL. D., inspector, Des Moines.

Division of barber inspection:

*John T. McGruder, chief inspector, Des Moines.

Division of cosmetology inspection:

*Violet Washburn, chief inspector, Des Moines.

Housing work is carried on by engineering division.

Medical, nurses, dental, optometry, cosmetology, chiropractic, osteopathy, embalming, podiatry, and barber examining boards are combined in State department of health.

Appropriations for fiscal year ending June 30, 1930:

For salaries and wages.....	\$40,200
Miscellaneous traveling.....	2,500
Antitoxin, vaccine, and other prophylactics.....	5,000
Sanitary engineering and housing—	
Salaries and wages.....	14,000
Traveling.....	6,000
Equipment and laboratory.....	1,000
Quarantine enforcement and other contingencies.....	4,000
Dues in national organizations.....	200
Investigation of tuberculosis.....	4,000
Traveling epidemiologist.....	1,800
Traveling lecturer.....	1,500
Stream pollution.....	625
Replacing car.....	500
New car.....	400
Total.....	61,725

Publications:

Biennial report.
Quarterly bulletin.
Health news-letter.

KANSAS

Board of health:

Clarence A. McGuire, M. D., president, Topeka.
H. L. Aldrich, M. D., vice president, Caney.
George I. Thacher, M. D., Waterville.
John H. Henson, M. D., Mound Valley.
Charles W. Robinson, M. D., Atchison.
Clay E. Coburn, M. D., Kansas City.
Arthur J. Anderson, M. D., Lawrence.
Anna Perkins, M. D., El Dorado.
Walter J. Eilerts, M. D., Wichita.
Thomas H. Finnigan, attorney, Kansas City.

Executive health officer:

*Earle G. Brown, M. D., secretary State board of health, Topeka.

Division of vital statistics:

*W. J. Davies, State registrar.

Division of communicable diseases:

*C. H. Kinnaman, M. D., epidemiologist, Topeka.

Division of foods and drugs:

*Thomas I. Dalton, Ph. C., assistant chief food and drug inspector, Topeka.

Division of child hygiene:

*J. C. Montgomery, M. D., chief, Topeka.

Division of rural sanitation:

*J. C. Montgomery, M. D., director, Topeka.

Division of water and sewage:

Earnest Boyce, chief, Lawrence.

Division of public-health education:

*Earle G. Brown, M. D., director, Topeka.

Division of venereal diseases:

*Earle G. Brown, M. D., director, Topeka.

Water and sewage laboratories at Kansas University:

Earnest Boyce, director, Lawrence.

Food laboratory at Kansas University:

Prof. E. H. S. Bailey, director of food analysis, Lawrence.

Drug laboratory at Kansas University:

Prof. L. D. Havenhill, director of drug analysis, Lawrence.

Food laboratory at Kansas Agricultural College:

Prof. H. H. King, director of food analysis, Manhattan.

Public-health laboratory, Topeka:

*Earle G. Brown, M. D., acting director, Topeka.

Appropriations for fiscal year ending June 30, 1929:

Salaries.....	\$21,300
Miscellaneous.....	3,550
Water and sewage division.....	3,000
Free distribution of antitoxins, etc.....	3,500
Public-health laboratory, and the department of division of venereal disease control; distribution of arsphenamine (606) to indigent poor of the State; assistance and maintenance of clinics.....	10,000
Division of child hygiene.....	5,000
Division of food and drugs.....	5,000
County aid, full-time demonstrations..	5,000
Total.....	56,350

Other sources of revenue:

Marriage fees, approximately \$20,000.

Water and ice analysis fees, approximately \$14,000.

Publications issued by health department:

Biennial report.
Weekly morbidity report.

KENTUCKY

Board of health:

E. M. Howard, M. D., president, Harlan.
Geo. S. Coon, Louisville.
A. T. McCormack, M. D., secretary, Louisville.
J. Watts Stovall, Grayson.
Vernon Blythe, M. D., Paducah.
H. T. Alexander, M. D., Augusta.
H. H. Carter, D. O., Shelbyville.
Lawrence T. Minish, M. D., Frankfort.
Addison Dimmitt, Louisville.

Executive health officer:

*A. T. McCormack, M. D., D. P. H., State health officer, Louisville.

Bureau of vital statistics:

*J. F. Blackerby, director, Louisville.

Bureau of bacteriology:

*Lillian H. South, M. D., director, Louisville.

Bureau of sanitary engineering:

*F. C. Dugan, C. E., director, Louisville.

Bureau of food, drugs, and hotels:

*Sarah Vance Dugan, director, Louisville.

Bureau of venereal diseases:

*Jethra Hancock, M. D., Louisville.

Bureau of public health nursing:

*Margaret East, R. N., director, Louisville.

Bureau of maternity and child health:

*Annie S. Veech, M. D., director, Louisville.

Bureau of prevention of trachoma and blindness:

*C. B. Kobert, M. D., director, Louisville.

Bureau of epidemiology:

*J. L. Jones, M. D., director, Louisville.

Bureau of county health work:

*P. E. Blackerby, M. D., director and assistant State health officer, Louisville.

*J. W. Davis, M. D., Winchester.

*V. A. Stilley, M. D., assistant, Louisville.

Bureau of tuberculosis and State tuberculosis sanitarium:

*Paul A. Turner, M. D., director and superintendent, Louisville.

Bureau of dental health:

J. F. Owen, D. D. S., director, Lexington.

Legislative appropriation for fiscal year ending June 30, 1930, \$145,400.

Publications issued by health department:

Monthly bulletin.

LOUISIANA**Board of health:**

J. A. O'Hara, M. D., president, New Orleans.

T. J. Labbe, St. Martinville.

S. de Nux, D. D. S., Marksville.

J. L. Kelly, M. D., Oak Grove.

(Other members to be appointed.)

Fannie B. Nelken, secretary.

Executive health officer:

*J. A. O'Hara, M. D., president, New Orleans.

Mosquito-malaria control:

*W. T. Browne, Ph. D., M. D., director, assistant to president, New Orleans.

Bacteriologist:

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

Registrar:

J. Geo. Dempsey, M. D., New Orleans.

Sanitary engineer:

*John H. O'Neill, New Orleans.

Bureau of mental hygiene:

*H. R. Unsworth, M. D., director, New Orleans.

Analyst:

*Cassius L. Clay, New Orleans.

Bureau of animal industry:

G. T. Jackson, D. V. S., director, New Orleans.

Bureau of public health administration:

*C. V. Akin, surgeon, U. S. P. H. S., director, New Orleans.

Appropriation for fiscal year ending June 30, 1930, \$75,000.

Publications issued by health department:

Quarterly bulletin.

Biennial report.

Miscellaneous leaflets.

MAINE**Public health council:**

C. F. Kendall, M. D., chairman, Augusta.

H. A. Kelley, D. D. S., Portland.

Annie Peabody, Portland.

J. G. Towne, M. D., Waterville.

O. R. Emerson, M. D., Newport.

Mrs. Agnes B. Hall, Hampden.

Executive health officer:

*C. F. Kendall, M. D., State commissioner of health, Augusta.

Division of administration:

*C. F. Kendall, M. D., Augusta.

Division of communicable diseases:

*William L. Holt, M. D., director, Augusta.

Division of laboratories:

*Alfred G. Long, M. D., C. P. H., Augusta.

Division of sanitary engineering:

*Elmer W. Campbell, D. P. H., Augusta.

Division of vital statistics:

*C. F. Kendall, M. D., State registrar, Augusta.

Division of social hygiene:

*William L. Holt, M. D., director, Augusta.

Division of public health nursing and child hygiene:

*Edith L. Soule, R. N., Augusta.

Division of dental hygiene:

*Dorothy Bryant, D. H., Augusta.

District health officers:

*J. L. Popper, M. D., South Portland.

*E. P. Goodrich, M. D., Lewiston.
(Vacancy.)

*G. H. Hutchins, M. D., Waterville.

*L. W. Hadley, M. D., Machias.

*James W. Loughlin, M. D., Newcastle.

*B. F. Porter, M. D., Caribou.

Appropriations for fiscal year ending June 30, 1930:

Salaries and clerk hire.....	\$39,000
Office expense and epidemic fund.....	20,000
District and local health officers.....	40,000
Veneral-disease control work.....	14,000
Maternity and child-welfare work.....	25,000
Branch State laboratory, Caribou.....	2,500
Aid for typhoid carriers.....	5,000
Total.....	145,500

Other sources of revenue:

Census Bureau, Washington, D. C., about \$800.
License fees from camps, roadside eating and lodging places, about \$10,000.

MARYLAND**Board of health:**

*Robert H. Riley, M. D., chairman, Baltimore.

Thomas S. Cullen, M. D., Baltimore.

Thomas H. Robinson, attorney general, Baltimore.

William W. Ford, M. D., Baltimore.

C. Hampson Jones, M. D., Baltimore.

Tolley A. Biays, Baltimore.

Benjamin C. Perry, M. D., Bethesda.

E. F. Kelly, Phar. D., Baltimore.

Burt B. Ide, D. D. S., Baltimore.

Executive health officer:

*Robert H. Riley, M. D., Dr. P. H., director of health, Baltimore.

Division of legal administration:

*J. Davis Donovan, chief, Baltimore.

Committee on public health education:

*Gertrude B. Knipp, secretary, Baltimore.

Bureau of communicable diseases:

*Robert H. Riley, M. D., Dr. P. H., chief, Baltimore.

*C. H. Halliday, M. D., epidemiologist, Baltimore.

*C. W. G. Rohrer, M. D., diagnostician, Baltimore.

Bureau of vital statistics:

*John Cozinson, M. D., Dr. P. H., chief, Baltimore.

Food and drug commissioner:

*A. L. Sullivan, chief, Baltimore.

Bureau of bacteriology:

*H. C. Ward, B. Ph., chief, Baltimore.

Bureau of sanitary engineering:

*Abel Wolman, B. S. E., chief, Baltimore.

Bureau of chemistry:

*Wyatt W. Randall, Ph. D., chief, Baltimore.

Division of personnel and accounts:

*Walter N. Kirkman, chief, Baltimore.

Bureau of child hygiene:

*J. H. Mason Knox, jr., M. D., chief, Baltimore.

Appropriations for fiscal year ending September 30, 1930:

Salaries.....	\$280,317
Expenses.....	149,375
Emergency appropriation (epidemics, etc.).....	10,000
Total.....	439,692

Publications issued by health department:

Annual report.

Weekly News Letter.

Monthly bulletin.

MASSACHUSETTS**Public health council:**

George H. Bigelow, M. D., chairman, Boston.

Roger I. Lee, M. D., Boston.

Francis H. Lally, M. D., Milford.

Richard P. Strong, M. D., Boston.

Sylvester E. Ryan, M. D., Springfield.

James L. Tighe, Holyoke.

Gordon Hutchins, Concord.

Executive health officer:

*George H. Bigelow, M. D., State commissioner of public health, Boston.

Secretary:

*Alice M. Ethier.

Division of administration:

(Under direction of commissioner.)

Division of communicable diseases:

*Clarence L. Scamman, M. D., director, Boston.

Division of sanitary engineering:

*X. H. Goodnough, C. E., director and chief engineer, Boston.

Division of water and sewage laboratories:

*H. W. Clark, director and chemist, Boston.

Division of biologic laboratories:

*Benjamin White, Ph. D., director and pathologist, Boston.

Division of food and drugs:

*Hermann C. Lythgoe, director and analyst, Boston.

Division of child hygiene:

*M. Luise Diez, M. D., director, Boston.

Division of tuberculosis sanatoria:

*Sumner H. Remick, M. D., director, Boston.

Division of adult hygiene:

*Herbert L. Lombard, M. D., director, Boston.

Appropriations for department of public health, 1929:**Division of administration—**

Salary of commissioner.....	\$7,500
Personal services.....	19,000
Services other than personal.....	14,000

Division of hygiene—

Personal services of director and assistants.....	33,000
Services other than personal.....	16,600
Personal services in connection with maternal and infant hygiene.....	21,000
Expenses in connection with maternal and infant hygiene.....	10,900

Division of communicable diseases—

Personal services of director, district health officers, etc.....	65,000
Services other than personal.....	19,200
Personal services in connection with control of venereal diseases.....	12,300
Expenses in connection with control of venereal diseases.....	34,000

Wassermann Laboratory—

For personal services.....	15,000
For expenses of laboratory.....	5,300

Antitoxin and vaccine laboratory—

For personal services.....	63,400
Other services.....	39,500

Inspection of food and drugs—

For personal services.....	54,075
Other services.....	19,225

For administering the shellfish law—

Personal services.....	2,100
Other services.....	900

Water supply and disposal of sewage, engineering division—

For personal services.....	66,000
For other services.....	18,800

Water supply and disposal of sewage, division of water and sewage laboratories—

For personal services.....	41,095
For other services.....	8,300

Division of tuberculosis—

For personal services.....	35,300
Services other than personal.....	10,400
For personal services of tuberculosis clinic units.....	43,500
Services other than personal (clinic units).....	23,500
Payment of subsidies.....	245,000

For maintenance of and for certain improvements at the Lakeville, North Reading, Rutland, and Westfield State sanatoria.....

1,435,300

Special appropriations under legislative acts and resolves for 1928.....

6,500

Division of adult hygiene—

For personal services.....	29,750
For other expenses.....	34,150

Cancer hospital at Norfolk—

For maintenance.....	194,400
For care of radium after purchase.....	10,000
For construction and equipment of additional hospital facilities.....	81,700

Total..... 2,735,695

MICHIGAN**Advisory council of health:**

C. C. Slemons, M. D., president, Grand Rapids.

Robert B. Harkness, M. D., Houghton.
Chalmers J. Lyons, D. D. Sc., Ann Arbor.
Leo J. Dretzka, M. D., Detroit.
Louis J. Hirschman, M. D., Detroit.

Executive health officer:

*Guy L. Kiefer, M. D., Dr. P. H., State health commissioner, Lansing.

Deputy health commissioner:

*Don M. Griswold, M. D., Dr. P. H., Lansing.

Bureau of engineering:

*E. D. Rich, C. E., director.
*John M. Hepler, assistant engineer.
*Willard F. Shephard, B. S. E., assistant engineer.
*Raymond J. Faust, assistant engineer.
*Herbert H. Hasson, assistant engineer.
*Orla E. McGuire, assistant engineer.
*F. B. Ransford, water inspector.

Bureau of laboratories:

*C. C. Young, Ph. D., Dr. P. H., director.
*Minna Crooks, R. N., bacteriologist.
*James Bell, M. D., associate bacteriologist.
*M. B. Kurtz, D. V. M. serologist.
*Pearl Kendrick, bacteriologist, West Michigan division.
*Ora Mills, bacteriologist, Houghton branch.
*A. B. Haw, clinical pathologist.
*Newton D. Larkum, Ph. D., immunologist.
*Roy W. Pryor, Dr. P. H., immunologist.
*Charles L. Bliss, toxicologist.
*Bruce Robinson, superintendent, biologic plant.

Bureau of child hygiene and public health nursing:

*Lillian R. Smith, M. D., director.
*Florence H. Knowlton, M. D., physician.
*Ida M. Alexander, M. D., prenatal consultant.
*Helen de Spelder Moore, R. N., assistant director.

Bureau of records and statistics:

*W. J. V. Deacon, M. D., director.

Bureau of education:

*Marjorie Delavan, director.
*Pearl Turner, assistant director.
*Melita Hutzal, lecturer.

Bureau of embalming:

*Frank J. Pienta, director.

Bureau of epidemiology:

*Don M. Griswold, M. D., Dr. P. H., director.
*J. R. Carter, M. D., county health units.
*M. E. Barnes, M. D., health officer training station.
*W. J. Murphy, M. D., field epidemiologist.
*W. R. King, M. D., diphtheria prevention.

Bureau of mouth hygiene:

*William R. Davis, D. D. S., director.

Bureau of industrial hygiene:

*Frank A. Poole, M. D., director.

Appropriations for fiscal year ending June 30, 1930:

Personal services.....	\$300,000
Supplies.....	} 126,000
Contractual service.....	
Outlay for equipment.....	9,900
Total.....	435,900
County health departments.....	20,000
Resort and roadside water inspection.....	16,000
Stream pollution.....	10,000
Buildings, biologic farm.....	31,000
Grand total.....	512,900

Publications issued by health department:

Monthly bulletin.
Annual report.
Communicable disease pamphlets.
Sex hygiene pamphlets.
Child hygiene pamphlets.
Engineering bulletins.
Mouth hygiene pamphlets.
Scientific reprint series.
Rules and regulations.
Health officers' manual.

MINNESOTA**Board of health:**

S. Marx White, M. D., president, Minneapolis.
L. P. Wolff, C. E., vice president, St. Paul.
C. L. Scofield, M. D., Benson.
N. M. Watson, M. D., Red Lake Falls.
N. G. Mortensen, M. D., St. Paul.
O. F. Mellby, M. D., Thief River Falls.
W. H. Barr, M. D., Wells.
E. W. Fahey, M. D., St. Paul.
J. A. Thabes, M. D., Brainerd.

Executive health officer, Old Capitol, St. Paul:

*A. J. Chesley, M. D., secretary and executive officer.

Division of administration, Old Capitol, St. Paul:

*O. C. Pierson, director.

Division of vital statistics, Old Capitol, St. Paul:

*Gerda C. Pierson, director.

Division of hotel inspection, Old Capitol, St. Paul:

*W. A. Wittbecker, State hotel inspector.

Division of preventable diseases (including venereal diseases), university campus, Minneapolis:

*O. McDaniel, M. D., director.
*E. M. Wade, chief of laboratories.
*W. P. Greene, M. D., epidemiologist.
*John C. Vezina, M. D., epidemiologist.

Division of sanitation, university campus, Minneapolis:

*H. A. Whittaker, director.
*O. E. Brownell, C. E., senior sanitary engineer.

Division of child hygiene, university campus, Minneapolis:

Everett C. Hartley, M. D., director
*Olivia Peterson, R. N., superintendent of public health nursing.

Appropriation for fiscal year ending June 30, 1930:**Maintenance and vital statistics—**

Salaries.....	\$32,700
Expenses.....	8,200
	\$40,900
Providing free antitoxin and other biological products.....	7,675
Veneral disease.....	17,500
Sanitary engineering and laboratory...	30,000
Preventable diseases and laboratory...	62,000
Protection for maternity and infancy...	32,700
Indian health work.....	10,000
Hotel inspection.....	28,400
Total.....	229,175

Publications issued by health department:
Educational pamphlets.

MISSISSIPPI**Board of health:**

W. W. Crawford, M. D., president, Hattiesburg.
Felix J. Underwood, M. D., secretary, Jackson.
S. E. Eason, M. D., New Albany.
L. B. Austin, M. D., Rosedale.
J. W. Lipscomb, M. D., Columbus.
B. J. Shaw, M. D., Slate Springs.
J. M. Dampeer, M. D., Crystal Springs.
W. H. Watson, M. D., Brandon.
Dudley Stennis, M. D., Newton.
W. R. Wright, D. D. S., Jackson.

Executive health officer:

*Felix J. Underwood, M. D., executive officer,
State board of health, Jackson.

Bureau of vital statistics:

*R. N. Whitfield, M. D., director, Jackson.

Bureau of child hygiene and public health nursing:

*Felix J. Underwood, M. D., acting director,
Jackson.

*Mary D. Osborne, R. N., supervisor, public
health nursing, Jackson.

*Gladys Eyrich, supervisor oral hygiene, Jackson.

Hygienic laboratory:

*T. W. Kemmerer, M. D., director, Jackson.

Bureau of sanitary engineering:

*H. A. Kroeze, C. E., director, Jackson.
*Mark F. Boyd, M. D., C. P. H., director,
bureau of malaria control.

*N. M. Parker, D. V. S., State sanitary inspector, Jackson.

*John M. Henderson, C. E., State sanitary inspector, Jackson.

*A. W. Fuchs, C. E., in charge of milk investigations in State.

*Floyd Ratliff, State sanitary inspector,
Jackson.

Bureau of county health work:

*C. C. Applewhite, M. D., director, Jackson.

Bureau of communicable diseases:

*H. C. Ricks, M. D., C. P. H., director, Jackson.

Appropriation for period January 1, 1929, to December 31, 1929, \$184,800.

Publications issued by health department:

Biennial report.

Weekly health letters published in all newspapers of the State.

Health pamphlets.

MISSOURI**Board of health:**

H. L. Kerr, M. D., president, Crane.
H. S. Gove, M. D., vice president, Linn.
James Stewart, M. D., secretary, Jefferson City.
W. A. Clark, M. D., Jefferson City.
Francis McCallum, M. D., Kansas City.
Ed Sanborn Smith, M. D., Kirksville.
Horace W. Carle, M. D., St. Joseph.

Executive health officer:

*James Stewart, M. D., State health commissioner, Jefferson City.

*Irl Brown Krause, M. D., assistant State health commissioner, Jefferson City.

Epidemiology:

*R. L. Russell, M. D., assistant epidemiologist.

Laboratories:

*R. L. Laybourn, bacteriologist.

Sanitary engineering:

*W. Scott Johnson, chief engineer.

Vital statistics:

*Ross Hopkins, M. D., statistician.

Child hygiene and cooperative county health work:

*Irl Brown Krause, M. D., director.

Public health nursing:

*Pearl McIver, R. N., director.

Appropriations for biennial period ending December 31, 1930:

Board of health—

Licensure.....	\$40,000
Salaries.....	86,000
Contingent.....	42,000
Public health fund.....	159,500
Laboratories and prevention of blindness.....	50,000
Total.....	377,500

MONTANA**Board of health:**

E. M. Porter, M. D., president, Great Falls.
E. G. Balsam, M. D., vice president, Billings.
George M. Jennings, M. D., Missoula.
L. H. Fligman, M. D., Helena.
B. L. Pampel, M. D., Livingston.

Executive health officer:

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

Division of communicable diseases:

*J. H. Crouch, M. D., epidemiologist, Helena.

Division of child welfare:

*MaBelle True, M. D., director, Helena.

Division of food and drugs:

*Glen D. Wiles, director, Helena.

*Vance Erickson, chemist, Helena.

Division of vital statistics:

*W. F. Cogswell, M. D., State registrar, Helena.

*L. L. Benepe, deputy State registrar, Helena.

Division of water and sewage:

*H. B. Foote, director, Helena.

W. M. Cobleigh, consultant, Bozeman.

*Jacob W. Forbes, analyst, Helena.

Hygienic laboratory:

*Fred D. Stimpert, director, Helena.

*Edith Kuhns, technician, Helena.

E. D. Hitchcock, M. D., consulting bacteriologist, Great Falls.

Appropriations for the years ending—

	June 30, 1930	June 30, 1931
Salaries.....	\$31,000	\$31,000
Operating expenses.....	17,300	17,300
Capital repairs and replacement.....	2,000	2,000
Division of child welfare.....	15,000	15,000
Board of entomology (Rocky Mountain spotted fever work).....	25,000	25,000
Total.....	90,300	90,300

Other sources of revenue:

Fees (about).....	\$12,000
Rockefeller Foundation.....	3,650

Publications issued by health department:

Special bulletins on communicable diseases.
Biennial report.

NEBRASKA

Department of public welfare:

Ernest M. Pollard, secretary, Lincoln.

Bureau of health—

Executive health officer—

*P. H. Bartholomew, M. D., director
of public health, Lincoln.

Collaborating epidemiologist—

*P. H. Bartholomew, M. D., Lincoln.

Bacteriologist—

*L. O. Vose, Lincoln.

Division of venereal diseases—

*P. H. Bartholomew, M. D., director, Lincoln.

Statistician—

*Esther L. Stern, Lincoln.

Division of child hygiene—

*Bertha Riesland, chief clerk, Lincoln.

Medical examining board—

W. R. Boyer, M. D., Pawnee City.

H. J. Lehnhoff, M. D., Lincoln.

E. T. McGuire, M. D., Mead.

Appropriations for biennial period ending June 30, 1931—

Salaries.....	\$40,000
Maintenance.....	22,000
Total.....	62,000

NEVADA

State board of health:

F. B. Balzar, governor, president, Carson City.

Edward E. Hamer, M. D., secretary and State health officer, Carson City.

W. G. Greathouse, secretary of State.

John Fuller, M. D., Reno.

A. J. Hood, M. D., Reno.

Executive health officer:

Edward E. Hamer, M. D., Carson City.

State hygienic laboratory at State university:

*Vera E. Lautenschlager, acting director, Reno.

Appropriations for 1927 and 1928:

Salary of secretary.....	\$5,000
For State board of health.....	5,100
For purchase of diphtheria antitoxin for free distribution.....	500
For bureau of vital statistics.....	500
Total.....	11,100

Publications issued by health department:

Biennial report.

Special bulletins.

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.

Charles W. Tobey, governor.

Ralph W. Davis, attorney general, Manchester.

Executive health officer:

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

*Harriet I. Parkhurst, chief clerk, Concord.

Division of maternity, infancy, and child hygiene:

*Mary D. Davis, R. N., director and supervising nurse, Manchester.

Department of vital statistics:

*Charles Duncan, M. D., registrar, Concord.

*Bertha M. Watson, chief clerk, Concord.

Division of chemistry and sanitation:

*Charles D. Howard, chief of division, Concord.

*Burns Robbins, assistant chemist, Concord.

*Reginald B. Adams, assistant chemist and bacteriologist, Concord.

*Leonard W. Trager, assistant sanitary engineer, Concord.

*Joseph X. Duval, chief inspector, Concord.

Diagnostic and pathological department—

*William R. Macleod, serologist and diagnostic bacteriologist, Concord.

H. N. Kingsford, M. D., pathologist, Hanover.

*Benj. Jewell, assistant in pathological laboratory, Concord.

Venereal disease division:

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

Appropriations for fiscal year ending June 30, 1930:

State board of health.....	\$50,150
Laboratory of hygiene.....	17,300
Vital statistics.....	3,750
Total.....	71,200

Publications issued by health department:

Bulletin.

Biennial report.

NEW JERSEY

Board of health:

Charles I. Lafferty, president, Atlantic City.

Harold J. Harder, C. E., vice president, Paterson.

David D. Chandler, Newark.

Board of health—Continued.

H. E. Winter, V. M. D., Plainfield.
 J. Oliver McDonald, M. D., Trenton.
 S. A. Cosgrove, M. D., Jersey City.
 Mrs. Helen M. Berry, Newark.
 Margaret McNaughton, Jersey City.
 J. E. H. Guthrie, D. D. S., Newark.
 J. Lynn Mahaffey, M. D., Camden.
 Frank S. Tainter, C. E., Far Hills.

Executive health officer:

*David C. Bowen, director of health, Trenton.

Bureau of bacteriology:

*John V. Mulcahy, chief, Trenton.

Bureau of chemistry:

*John E. Bacon, chief, Trenton.

Bureau of administration:

*Charles J. Merrell, chief, Trenton.

Bureau of food and drugs:

*Walter W. Scofield, chief, Trenton.

Bureau of child hygiene:

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

Bureau of local health administration:

*David C. Bowen, chief, Trenton.

Bureau of engineering:

*H. P. Croft, chief, Trenton.

Bureau of vital statistics:

*David S. South, chief, Trenton.

Bureau of venereal disease control:

A. J. Casselman, M. D., consultant, Trenton.

Appropriations for fiscal year ending June

30, 1930:

Salaries.....	\$201, 470
Miscellaneous.....	63, 550
Child hygiene.....	123, 023
Venereal disease control.....	28, 935
Total.....	416, 978

Publications issued by health department:

Monthly bulletin.

Annual report.

NEW MEXICO**Board of public welfare:**

Mrs. Francis C. Wilson, president, Santa Fe.
 R. O. Brown, M. D., secretary, Santa Fe.
 Mrs. A. M. Shortle, Albuquerque.
 R. R. Ryan, Albuquerque.
 H. A. Miller, M. D., Clovis.

Executive health officer:

*G. S. Luckett, M. D., director of public health, Santa Fe.

Division of preventable diseases:

*G. S. Luckett, M. D., chief, Santa Fe.

Division of sanitary engineering and sanitation:

*Paul S. Fox, M. S. in C. E., chief, Santa Fe.

Division of public health nursing and child hygiene:

*Edith Hodgson, R. N., chief, Santa Fe.

Division of county health work:**Public health laboratory:**

*Myrtle Greenfield, M. S., chief, Albuquerque.

State registrar:

*Billy Tober, Santa Fe.

Appropriation for years 1930 and 1931, per annum,
 \$38,400. Fiscal year ends June 30.

NEW YORK**Public health council:**

Simon Flexner, M. D., LL. D., chairman,
 New York.

Homer Folks, LL. D., vice chairman, Yonkers.

Edward H. Marsh, M. D., secretary, Albany.

Henry N. Ogden, C. E., Ithaca.

Frederick F. Russell, M. D., New York.

Jacob Goldberg, M. D., Buffalo.

Stanton P. Hull, M. D., Petersburg.

Matthias Nicoll, jr., M. D. (ex officio) com-
 missioner of health, Albany.

Executive health officer:

*Matthias Nicoll, jr., M. D., commissioner of
 health, Albany.

Deputy commissioner of health:

*Paul B. Brooks, M. D., Albany.

Secretary:

*Edward H. Marsh, M. D., Dr. P. H., Albany.

Executive officer:

*Fenimore D. Beagle, Albany.

Division of public-health education:

*B. R. Rickards, director, Albany.

Division of sanitation:

*Charles A. Holmquist, C. E., director,
 Albany.

Division of vital statistics:

*Joseph V. De Porto, Ph. D., director, Albany.

Division of child hygiene:

*Elizabeth M. Gardiner, M. D., director,
 Albany.

Division of communicable diseases:

*Edward S. Godfrey, M. D., director, Albany.

Division of tuberculosis:

*Robert Plunkett, M. D., director, Albany.

Division of social hygiene:

*Albert Pfeiffer, M. D., director, Albany.

Division of laboratories and research:

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

Division of public-health nursing:

*Mathilde S. Kuhlman, R. N., director,
 Albany.

Institute for the study of malignant disease, Buffalo:

*Burton T. Simpson, M. D., director.

Appropriations for fiscal year ending June 30, 1930:

Personal services.....	\$1, 175, 340. 00
Maintenance and operation.....	533, 100. 00
For State aid to county labora- tories.....	110, 000. 00
Investigation of oyster beds.....	5, 000. 00
State aid to county health activi- ties.....	167, 037. 54
Physically handicapped children.....	30, 000. 00
For repairs to old buildings.....	21, 600. 00
Total.....	2, 042, 077. 54

(Appropriation of \$204,950 for construction of
 addition to laboratory building included
 above.)

Other sources of revenue:

Fees from certified transcript of birth, death,
 and marriage certificates, \$1,774.20 per annum.

Licensing laboratories, \$456.

Sale of serums, \$1,591.62.

Licensing of embalmers and undertakers,
 \$13,138.50.

Publications issued by health department:
 Weekly Health News.
 Monthly Vital Statistics Review.
 Annual report.

NORTH CAROLINA

Board of health:

A. J. Crowell, M. D., Charlotte, president.
 Thomas E. Anderson, M. D., Statesville.
 E. J. Tucker, D. D. S., Roxboro.
 Cyrus Thompson, M. D., Jacksonville.
 D. A. Stanton, M. D., High Point.
 James P. Stowe, Ph. G., Charlotte.
 John B. Wright, M. D., Raleigh.
 L. E. McDaniel, M. D., Jackson.
 Charles C. Orr, M. D., Asheville.

Executive health officer:

*Charles O'H. Laughinghouse, M. D., secretary-treasurer and State health officer, Raleigh.
 *Ronald B. Wilson, assistant to the secretary, Raleigh.

Laboratory of hygiene:

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

Deputy State registrar:

*F. M. Register, M. D., Raleigh.

Bureau of engineering and inspection:

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

Bureau of maternity and infancy:

*George Collins, M. D., director, Raleigh.

Bureau of health education:

*G. M. Cooper, M. D., director, Raleigh.

Bureau of county health work:

*C. N. Sisk, M. D., director, Raleigh.

Bureau of epidemiology:

*H. A. Taylor, M. D., director, Raleigh.

Bureau of life extension:

*Frederick R. Taylor, M. D., director, High Point.

Appropriations for fiscal year ending June 30, 1930:

Administration.....	\$29, 745
Vital statistics.....	25, 630
Laboratory of hygiene.....	68, 000
School inspection.....	58, 980
County health work.....	123, 415
Epidemiology.....	10, 480
Maternity and infancy.....	50, 580
Engineering and inspection.....	75, 720
Health education.....	11, 410
Life extension.....	9, 100
Printing.....	20, 900
Orthopedic clinics.....	5, 000
Cancer control.....	2, 500
Total.....	491, 470

Other sources of revenue:

Special fees, \$49,800.

Publications issued by health department:

Monthly bulletin: The Health Bulletin.

Special bulletins.

Biennial report.

NORTH DAKOTA

Advisory health council:

Bertha R. Palmer, superintendent public instruction, ex officio, Bismarck.

Advisory health council—Continued.

Fannie Dunn Quain, M. D., president North Dakota Tuberculosis Association, ex officio, Bismarck.

Arne Oftedal, M. D., Fargo.

Ella Clayton Smyth, Bismarck.

R. S. Towne, D. D. S., Bismarck.

Executive health officer:

*A. A. Whittemore, M. D., State health officer, Bismarck.

Child hygiene and public health nursing:

*Maysil M. Williams, M. D., director, Bismarck.

Bureau of venereal diseases:

*J. D. Jungman, M. D., Bismarck.

Bureau of sanitary engineering:

A. L. Bavone.

Bureau of vital statistics:

*Myrtle C. Lee, director.

Appropriations for biennial period ending June 30, 1931:

For public health—

Salary.....	\$7, 200
Clerk hire.....	23, 200
Postage.....	1, 000
Supplies.....	1, 500
Furniture and fixtures.....	1, 000
Printing.....	3, 000
Miscellaneous.....	1, 000
Travel.....	1, 500
Card indexing.....	2, 500

For division of child hygiene and public health nursing—

Salary.....	6, 000
Clerk hire.....	9, 600
Postage.....	3, 000
Supplies.....	200
Furniture and fixtures.....	100
Printing.....	4, 000
Miscellaneous.....	100
Travel.....	3, 000

OHIO

Public health council:

Chas. A. Neal, M. D., chairman, Columbus.

James E. Bauman, secretary.

G. D. Lummis, M. D.

C. O. Probst, M. D.

R. M. Calfee.

W. I. Jones, D. D. S.

Executive health officer:

*Chas. A. Neal, M. D., director of health, Columbus.

Assistant director of health:

*James E. Bauman.

Division of administration:

*James E. Bauman, chief.

*C. A. Orrison, chief clerk.

Bureau of publicity—

*Paul Mason, director.

Bureau of local health organization—

*E. R. Shaffer, M. D., chief.

Division of communicable diseases:

*T. W. Mahoney, M. D., chief epidemiologist.

Division of communicable diseases—Continued.**Bureau of venereal diseases—**

*Finley Van Orsdall, M. D., chief.

Bureau of trachoma clinics—**Division of sanitary engineering:**

*F. H. Waring, chief.

Bureau of plumbing inspection—

*A. A. Manchester, chief.

Division of vital statistics:

*Irvin C. Plummer, chief.

Division of laboratories:

Leo F. Ey, chief.

Division of hygiene:

*J. A. Frank, M. D., chief.

Bureau of tuberculosis—

H. M. Austin, M. D., chief.

Bureau of hospitals—

*Pearl G. Thompson, chief.

Division of child hygiene:**Bureau of public health education—**

*A. B. Lippert, M. D., chief.

Division of public health nursing:

*Zoe McCaleb, R. N., chief.

Division of industrial hygiene:

*B. E. Neiswander, M. D., chief.

E. R. Hayhurst, M. D., consultant.

Appropriations for 12 months ending December 31, 1929:

Personal services	\$230, 000
Maintenance	153, 073
State aid for health districts	250, 000
Total	633, 073

Publications issued by health department:

Ohio Health News (semimonthly).

OKLAHOMA**Executive health officer:**

*Clyde W. Beson, M. D., State health commissioner, Oklahoma City.

Assistant State health commissioner:

*J. P. Folan, Oklahoma City.

Bureau of vital statistics:

*N. H. Moore.

Bureau of laboratories:

*D. T. Bowden, M. D., director of laboratory.

Bureau of maternity and infancy:

*Mable Sherin, director.

Bureau of venereal disease control:

A. M. Young, M. D., director.

Bureau of rural sanitation:

*D. T. Bowden, M. D., director.

Bureau of sanitary engineering:

*H. J. Darcey, director.

Bureau of public health education:

*G. Harrison, director.

Bureau of dental health education:

*Pearl E. Wilson, R. N.

Bureau of epidemiology:

*G. F. Mathews, M. D.

Appropriations for fiscal year ending June 30, 1930:**Administration—**

Commissioner	\$4, 800
Assistant commissioner	2, 400
Secretary and stenographer	1, 800
Bookkeeper	2, 000
Stenographers (1 at \$1,800, 1 at \$1,500, and 1 at \$1,200)	4, 500
Bureau of public health education—	
Director	2, 400
Stenographer	1, 500
Bureau of diagnostic laboratory—	
Chemist	3, 000
Assistant chemist	2, 400
Bacteriologist	3, 000
Assistant bacteriologist	2, 400
Record clerk	1, 800
Extra help—janitor	1, 200
Manufacture vaccine	2, 500
Bureau of sanitary engineering—	
Engineer	3, 000
Bureau of pure food, drugs, and sanitary inspection—	
Supervisor (sanitary engineer)	2, 400
Inspectors (6 at \$1,800 each)	10, 800
Bureau of vital statistics—	
Registrar	2, 400
Assistant registrar	1, 800
Statistical clerks (3 at \$1,500 each)	4, 500
Bureau of maternity and infancy—	
Director	3, 000
Stenographer	1, 500
Head nurse	2, 400
Field nurses (4 at \$1,800 each)	7, 200
Printing, office supplies, and communications	7, 000
Extra help to hold child health conferences and prenatal clinics, including mailing clerk	5, 000
Traveling expenses, including motor supplies and motor repairs	5, 000
Travel, all departments	17, 500
Communication	3, 000
Printing	3, 500
Other expenses	2, 100
Office supplies	1, 200
Medical supplies	7, 000
Office equipment	750
Laboratory equipment	900
Motor-vehicle exchange	1, 000
Special appropriations unallocated:	
Control of venereal diseases	10, 800
Epidemiology, disease prevention	5, 000
Rural sanitation and disease control in the rural districts and county health units	35, 000
Malaria control	10, 000
Total	189, 450

OREGON**Board of health:**

Harold C. Bean, M. D., president, Portland.
 W. B. Morse, M. D., vice president, Salem.
 Frederick D. Stricker, M. D., secretary and
 State health officer, Portland.
 C. J. Smith, M. D., Portland.
 J. H. Rosenberg, M. D., Prineville.
 George E. Houck, M. D., Roseburg.
 W. T. Phy, M. D., Hot Lake.

Executive health officer:

*Frederick D. Stricker, M. D., secretary and
 State health officer, Portland.

Registrar of vital statistics:

*Frederick D. Stricker, M. D., Portland.

Division of child hygiene and public health nursing:

*Glendora Blakely, R. N., Portland.

Director of laboratory:

*William Levin, D. P. H., Portland.

Appropriations for fiscal year ending December 31,
 1929, \$45,212.

Publications issued by health department:

Annual report.
 Biennial report.
 Pamphlets and posters.
 Weekly letter.

PENNSYLVANIA**Department of health:****Advisory board—**

Theodore B. Appel, M. D., chairman.
 H. C. Frontz, M. D., Huntingdon.
 J. M. Wainwright, M. D., Scranton.
 A. A. Cairns, M. D., Philadelphia.
 S. R. Haythorn, M. D., Pittsburgh.
 C. B. Auel, M. E., East Pittsburgh.
 Charles F. Mebus, C. E., Glenside.

Sanitary water board—

Theodore B. Appel, M. D., chairman.
 Charles E. Dorworth, secretary of forests
 and waters, Bellefonte.
 Nathan B. Buller, commissioner of fish-
 eries, Pleasant Mount.
 P. T. Davis, Clearfield.
 Sumner B. Ely, Pittsburgh.
 George S. Webster, Philadelphia.
 W. L. Stevenson, chief engineer and sec-
 retary, Harrisburg.

Executive health officers—

*Theodore B. Appel, M. D., secretary of
 health, Harrisburg.
 *J. Bruce McCreary, M. D., deputy sec-
 retary of health, Shippensburg.

Sanatoria and clinics—**Section State clinics—**

*William C. Miller, M. D., Mechanics-
 burg.

Mont Alto sanatorium—

*R. H. McCutcheon, M. D., medical
 director, South Mountain.

Cresson sanatorium—

*T. H. A. Stites, M. D., medical direc-
 tor, Cresson.

Hamburg sanatorium—

*Henry A. Gorman, M. D., medical
 director, Hamburg.

Department of health—Continued.**Bureau of communicable diseases—**

*J. Moore Campbell, M. D., Harrisburg.

Section of epidemiology—

*Harold B. Wood, M. D.

*F. E. Coughlin, M. D.

Genito-urinary section—

*Edgar S. Everhart, M. D., Lemoyne.

Section of restaurant hygiene—

*Howard M. Haines, Harrisburg.

Bureau of sanitary engineering—

*W. L. Stevenson, C. E., chief engineer,
 Harrisburg.

Section of waterworks and sewerage—

*H. E. Moses, Harrisburg.

Section of roadside water supplies—

*Henry P. Drake.

Section of housing—

*H. F. Bronson, C. E., Harrisburg

Section of nuisances—

*D. V. Ness.

Section milk control—

*Ralph E. Irwin, Camp Hill.

Section industrial waste—

*F. E. Daniels, M. A., Harrisburg.

Child health—school control—**Field supervision—**

*C. W. Sheldon, M. D.

School sanitation—

*John G. Ziegler, Lebanon.

Preschool section—

*Mary Riggs Noble, M. D., Harrisburg.

Dental hygiene—

*C. J. Hollister, D. D. S., Harrisburg.

Bureau of finance—

*Clinton T. Williams, Harrisburg.

Section of accounts—

*E. J. MacNamara.

Section of supplies—

*Roy G. Miller, Harrisburg.

Bureau of vital statistics—

*Emlyn Jones, M. D., Johnstown.

*George B. L. Arner, statistician.

Bureau of laboratories—

*John L. Laird, M. D., Philadelphia.

Bureau of drug control—

*James N. Lightner, LL. B., Lancaster.

Bureau of nursing—

*Alice M. O'Halloran, R. N., Harrisburg.

Bureau of inspection—

*James Duffy, Marietta.

Bureau of public health education—

*J. C. Funk, LL. B., Harrisburg.

Appropriations for biennial period
 ending May 31, 1931:

General health purposes and maintenance of sanatoria.....	\$5,266,500
Furnishings and equipment for hospital for crippled children.....	235,000
Sanitary water board.....	186,000
Construction for Mont Alto, Cresson, and Hamburg sanatoria.....	975,000
Total.....	6,662,500

PHILIPPINE ISLANDS

Director of health:

Jacobo Fajardo, M. D., Manila.

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

Fernando Calderon, M. D., president, Manila.

Regino G. Padua, M. D., secretary, Manila.

José Fabella, M. D., Manila.

Gervasio Ocampo, M. D., Manila.

José Albert, M. D., Manila.

Benito Valdes, M. D., Manila.

Eulogio P. Revilla, LL. B., Manila.

Vicente Genato, Manila.

Executive officer:

*Jacobo Fajardo, M. D., director of health, Manila.

Assistant to the director:

*Regino G. Padua, M. D., Manila.

Office of records and finance:

*Mamerto Tiano, chief, Manila.

Office of property:

*Bonifacio Mencias, M. D., acting chief, Manila.

Office of vital statistics:

*José Guidote, M. D., chief, Manila.

Office of general inspection:

*Rafael Villafranca, M. D., chief, Manila.

Public health education and publicity:

*José P. Bantug, M. D., chief, Manila.

Public health nursing:

*Rosario Pastor, M. D., chief, Manila.

Division of communicable diseases:

*Leoncio Lopez Rizal, M. D., chief, Manila.

Division of metropolitan sanitation:

*Eugenio Hernando, M. D., chief, Manila.

Division of hospitals, dispensaries, and laboratories:

*Eusebio D. Aguilar, M. D., chief, Manila.

Leprosy section—

*Vicente Kierulf, M. D., chief.

Cullion Leper Colony:

*Sulpicio Chiyuto, M. D., chief, Manila.

Division of provincial sanitation:

*Gabriel Intengan, M. D., chief, Manila.

Division of malaria control:

*Cristobal Manalang, M. D., chief.

*Antonio Ejercito, M. D., assistant chief.

Division of sanitary engineering:

*Manuel Mañosa, C. E., chief, Manila.

Appropriations for fiscal year ending December 31, 1929:

Salaries and wages.....	\$501,493
Miscellaneous expenses.....	985,887
Furniture and equipment.....	11,250

Total..... 1,498,630

Special expenses—

Continuation of treatment and diagnosis of lepers..... 125,000

Maintenance of regional treatment stations, etc..... 62,500

Aid to specially organized provinces..... 270,550

Aid to the Province of Ilocos Sur for the operation, maintenance, and equipment of the Cervantes hospital..... 10,000

School of nursing in Baguio..... 5,250

Appropriations for fiscal year ending December 31, 1929—Continued.

Special expenses—Continued.

Medicines, medical and surgical supplies for distribution to public-school dispensaries.....	\$5,000
General demonstration on a small scale of the practical control of beriberi.....	5,000
Contribution to the University of the Philippines for the operation of the School of Sanitation and Public Health.....	20,000
Control of malaria in the regularly and specially organized Provinces and municipalities and municipal districts.....	37,000

Total for special expenses..... 540,300

Grand total of appropriations 2,038,930

Publications issued by the Philippine health service:

Daily Service News.
Weekly comparative epidemiological résumé.
Weekly résumé of births and deaths.
Monthly bulletin.
Annual report.
Occasional pamphlets.

PORTO RICO

Department of health:

*Pedro N. Ortiz, M. D., commissioner of health, San Juan.

*A. Fernós Isern, M. D., assistant commissioner, San Juan.

Insular board of health:

A. Fernós Isern, M. D., chairman, San Juan.

Donald C. Cook, San Juan.

W. A. Glines, M. D., San Juan.

Pablo Morales Otero, M. D., San Juan.

G. A. Ramirez de Arellano, San Juan.

M. Roses Artau, M. D., San Juan.

A. Ortiz Toro, San Juan.

Luis B. de la Vega, M. D., secretary, San Juan.

Division of property and accounts:

*Abelardo Santiago, chief, San Juan.

Division of sanitary engineering:

*Octavio Marcano, sanitary engineer, San Juan.

Bacteriological laboratory:

*Oscar Costa Mandry, M. D., director, San Juan.

Chemical laboratory:

*R. del Valle Sárraga, chemist, director, San Juan.

Division of transmissible diseases:

*M. O. de la Rosa, M. D., chief, San Juan.

*E. Garrido Morales, M. D., epidemiologist, San Juan.

Bureau of statistics:

*Manuel A. Pérez, chief, San Juan.

Appropriations for the fiscal year ending June 30, 1930:

Office of the commissioner of health.....	\$276,757.70
Leper hospital.....	34,166.50
Quarantine hospital.....	12,634.00

Appropriations for the fiscal year ending June 30, 1930—Continued.

Antituberculosis sanatorium of	
Porto Rico.....	137, 228. 00
Blind asylum.....	41, 060. 00
Institute for blind children.....	27, 270. 00
Insane asylum.....	155, 000. 00
Education and maintenance of poor deaf and dumb children....	4, 000. 00
Care of tubercular patients in the sanatorium at Ponce under the control of the department of health.....	15, 000. 00
Control and suppression of tuberculosis.....	60, 000. 00
Control and prevention of venereal diseases.....	12, 000. 00
Prevention of infantile mortality.....	25, 000. 00
Extermination of mosquitoes and control and suppression of malaria.....	50, 000. 00
Suppression of anemia.....	100, 000. 00
Extermination of rats.....	5, 000. 00
Control and suppression of infantile tetanus and ophthalmia neonatorum.....	2, 000. 00
Equipment and maintenance of district hospitals.....	60, 000. 00
Emergency fund for the control and suppression of epidemics....	10, 000. 00
Girls' charity school.....	84, 178. 00
Boys' charity school.....	111, 231. 00
Sanitation fund trust fund.....	168, 050. 48
Total.....	1, 390, 625. 68

RHODE ISLAND

Board of health:

William F. Williams, M. D., president, Bristol.
 Joseph M. Bennett, M. D., vice president, Providence.
 Thomas J. McLaughlin, M. D., Woonsocket.
 John Champlin, jr., M. D., Westerly.
 Berton W. Storrs, M. D., Portsmouth.
 M. S. Budlong, M. D., Providence.
 R. Morton Smith, M. D., Riverpoint.

Executive health officer:

*B. U. Richards, M. D., secretary, State board of health, State commissioner of health, and State registrar, Statehouse, Providence.

Pathologist:

Lester A. Round, Ph. D., Providence.

Chemist:

Stephen De M. Gage, Providence.

Appropriations for fiscal year ending Nov. 30, 1928:

Executive department.....	\$36, 425
Chemical laboratory.....	25, 905
Pathological laboratory.....	25, 550
Child welfare.....	10, 200
Venereal diseases.....	9, 220
Total.....	107, 300

SOUTH CAROLINA

Executive committee, board of health:

Robert Wilson, jr., M. D., chairman, Charleston.
 L. D. Boone, M. D., Aiken.
 Davis Furman, M. D., Greenville.
 E. A. Hines, M. D., Seneca.
 W. R. Wallace, M. D., Chester.
 William Eggleston, M. D., Hartsville.
 J. Lee Carpenter, Ph. G., Greenville.
 F. M. Routh, M. D., Columbia.
 George Dick, D. D. S., Sumter.
 John M. Daniel, Atty. Gen., Columbia.
 A. J. Beattie, Compt. Gen., Columbia.

Executive health officer:

*James A. Hayne, M. D., State health officer, Columbia.

Department of county health units:

*Ben F. Wyman, M. D., director, Columbia.

Bureau of child hygiene:

*Nellie Cunningham, R. N., supervisor of public health nursing, Columbia.

Laboratory department:

*H. M. Smith, M. D., in charge, Columbia.
 *J. R. Cain, chief bacteriologist, Columbia.

Bureau of vital statistics:

*C. W. Miller, chief clerk, Columbia.

Bacteriologist and chemist:

F. L. Parker, jr., M. D., Ph. D., Columbia.

South Carolina Sanatorium:

*Ernest Cooper, M. D., superintendent, Columbia.

Epidemiologist:

*A. H. Hayden, M. D., Columbia.

Sanitary engineer:

*A. E. Legare, C. E., Columbia.

Appropriations for fiscal year ending

December 31, 1929:

Administrative office.....	\$12, 275. 30
Control of epidemic diseases.....	48, 920. 00
Bureau of child hygiene.....	9, 670. 00
Bureau of vital statistics.....	8, 305. 00
Laboratory.....	12, 500. 00
Bureau of rural sanitation.....	43, 337. 50
Division of sanitary engineering....	13, 690. 00
Tuberculosis sanatoria.....	106, 145. 00
Aid for crippled children.....	12, 400. 00
Child-placing bureau.....	16, 713. 00

Total..... 283, 955. 80

Publications issued by health department:

Annual report.

Bulletins of various departments.

SOUTH DAKOTA

Board of health:

A. C. Clark, M. D., president, Woonsocket.
 H. J. Barrton, M. D., vice president, Watertown.
 H. R. Kenaston, M. D., Bonesteel.
 N. T. Owen, M. D., Rapid City.
 P. B. Jenkins, M. D., superintendent, Waubay.

Executive health officer:

*Park B. Jenkins, M. D., Waubay.

Division of vital statistics:

*Park B. Jenkins, M. D., Waubay.

Division of records and accounts:

*Edna Jenkins.

Division of medical licensure:

H. R. Kenaston, M. D.

Laboratories (at Vermillion):

J. C. Ohlmacher, M. D.

Division of child hygiene:

*Florence E. Walker, R. N.

Division of epidemiology:

*A. E. Bostrom, M. D.

Division of sanitary engineering:

*W. W. Towne, B. E.

	1929-30	1930-31
Appropriations:		
Salaries and wages.....	\$21,500	\$21,500
Supplies and materials.....	2,500	2,500
Communication and travel.....	4,000	4,000
Printing, binding, and advertising.....	2,000	2,000
Light and power.....	250	250
Rents.....	1,560	1,560
Crippled children.....	2,500	2,500
Dues.....	50	50
Maternity and infancy work.....	5,000	5,000
Total.....	39,360	39,360

TENNESSEE**Department of public health.**

*E. L. Bishop, M. D., C. P. H., commissioner, Nashville.

Division of epidemiology:

*H. C. Stewart, M. D., C. P. H., director, Nashville.

Division of local organization:

*W. K. Sharp, Jr., M. D., director, Nashville.

Division of vital statistics:

*J. B. Bond, M. D., director, Nashville.

Division of laboratories:

*William Litterer, M. D., director, Nashville.

Division of sanitary engineering:

*Roy J. Morton, C. E., director, Nashville.

Division of health education:

*H. S. Mustard, M. D., director, Nashville.

Division of child hygiene and public health nursing:

*W. J. Breeding, M. D., director, Nashville.

*Miss M. G. Nisbet, R. N., State supervising nurse, Nashville.

Division of tuberculosis control:

*M. F. Haygood, M. D., C. P. H., director, Nashville.

Appropriation for the fiscal period July 1, 1929, to June 30, 1931:

General administration.....	\$40,200
Vital statistics.....	37,600
Sanitary engineering.....	51,300
Laboratories.....	67,840
Health education.....	14,400
Epidemiology.....	59,000
Local organization.....	285,600
Child hygiene and public health nursing.....	120,200
Tuberculosis control.....	90,000
Total.....	766,140

Other sources of revenue:

United States Department of Labor, maternity and child welfare, \$25,767.55 per annum. (Cooperation with Department of Labor ended June 30, 1929.)

International Health Board, \$22,500, (variable) per annum.

International Health Board, cooperation in malaria control, epidemiology, and local organization, vital statistics. United States Public Health Service in malaria control. Individual counties and cities in State cooperation in malaria control, county health work, and child hygiene and public health nursing. United States Public Health Service, cooperation in county health work, \$18,000 per annum.

TEXAS**Board of health:**

J. M. Frazier, M. D., Belton.

Joseph S. Wooten, M. D., Austin.

A. A. Ross, M. D., Lockhart.

Joe Gilbert, M. D., Austin.

C. M. Rosser, M. D., Dallas.

E. W. Wright, M. D., Bowie.

J. C. Anderson, M. D., ex officio, State health officer.

Executive health officer:

*J. C. Anderson, M. D., State health officer, Austin.

Bureau of child hygiene:

*H. N. Barnett, M. D., director.

Bureau of vital statistics:

*W. A. Davis, M. D., director.

Bureau of communicable diseases and hygienic laboratory:

S. W. Bohls, M. D., director.

Bureau of sanitary engineering:

*V. M. Ehlers, C. E., director.

Bureau of pure foods and drugs:

*E. G. Le May, director.

Appropriations for fiscal years 1929 and 1931, \$209,520 per annum.

UTAH**Board of health:**

Joseph R. Morrell, M. D., president, Ogden.

T. B. Beatty, M. D., secretary, Salt Lake City.

C. E. McDermid, M. D., Castle Gate.

Carl Hopkins, Ogden.

W. D. Donohoe, M. D., Salt Lake City.

R. A. Hart, C. E., Salt Lake City.

Barnet E. Bonar, M. D., Salt Lake City.

Executive health officer:

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

Bureau of vital statistics:

*T. B. Beatty, M. D., State registrar.

*Anna M. Bowen, deputy registrar.

Bureau of child hygiene:

*T. B. Beatty, director.

Epidemiologist:

*A. C. McKean, M. D.

Sanitary engineer:

*Leonard H. Male.

Bacteriological laboratory:

*E. H. Bramhall, bacteriologist.

Appropriations for two years ending June 30, 1931:

Salaries.....	\$42,456
Office expenses.....	8,000
Travel.....	3,300
Equipment.....	500
Child hygiene (to match Federal funds).....	13,000
Total.....	67,256

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

VERMONT

Board of health:

Edward J. Rogers, M. D., chairman, Pittsford.
William G. Ricker, M. D., St. Johnsbury.
John P. Gifford, M. D., Randolph.

Executive health officer:

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

Laboratory of hygiene:

*Charles F. Whitney, M. D., director, Burlington.

Sanitary engineering:

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

Sanitary inspector:

*Fred S. Kent, M. D., Burlington.

Division of communicable diseases:

*Fred S. Kent, M. D., Burlington.

Division of tuberculosis:

*H. W. Slocum, Burlington.

Division of poliomyelitis:

*W. L. Aycock, M. D., research, Burlington.

*Lillian E. Kron, R. N., Burlington.

Division of maternal and infant hygiene:

*Nellie M. Jones, R. N., Maternity, infancy, and child hygiene nurse.

Appropriations for fiscal year ending June 30, 1930:

Total budget, \$45,000.

Other sources of revenue:

Private donations for study and treatment of infantile paralysis.

Publications issued by health department:

Biennial report.

VIRGINIA

Board of health:

W. T. Graham, M. D., president, Richmond.
Mrs. W. M. Smith, Purcellville.
Frank Darling, Hampton.
J. A. McGuire, M. D., Norton.
Guy R. Harrison, D. D. S., Richmond.
George B. Lawson, M. D., Roanoke.
L. T. Royster, M. D., University.

Executive health officer:

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

Assistant health commissioner and director of rural health work:

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

*C. R. Keiley, associate director of rural health work.

Registrar of vital statistics:

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

Bacteriologist:

*G. F. McGinnis, M. D., Richmond.

Sanitary engineer:

Richard Messer, C. E., Richmond.

Bureau of child welfare:

*Mary E. Brydon, M. D., Richmond.

Director public health nursing:

*Nannie J. Minor, R. N., Richmond.

Director mouth hygiene:

*N. Talley Ballou, D. D. S., Richmond.

Director tuberculosis out-patient service:

*Agnes D. Randolph, R. N., Richmond.

Epidemiologist:

*H. G. Grant, M. D.

Appropriations for fiscal year ending June 30, 1927:

Administration.....	\$23,830
Sanitary engineering.....	17,750
Publicity.....	5,660
Rural health work.....	59,210
Inspection of convict camps.....	3,000
Laboratory.....	20,195
Child welfare and public health nursing.....	50,000
Bureau of social hygiene.....	10,000
Control of epidemics.....	10,000
Vital statistics.....	24,535
Collection and publication of marriage and divorce statistics.....	3,615
Prevention of blindness.....	2,300
Tuberculosis education.....	63,640
Total.....	293,675

Publications issued by health department:

Monthly bulletin.

Annual report.

WASHINGTON

Board of health:

A. E. Stuht, M. D., director of health, chairman.

Clarence A. Smith, M. D., Seattle, Wash.

James H. Egan, M. D., Tacoma.

Samuel L. Caldbick, M. D., Everett.

John O'Shea, M. D., Spokane.

H. W. Nightingale, secretary, Seattle.

Executive health officer:

*A. E. Stuht, M. D., State director of health, Seattle.

Epidemiologist:

*A. U. Simpson, M. D., Seattle.

Chief of laboratory:

*A. U. Simpson, M. D., Seattle.

Sanitary engineer:

*H. W. Nightingale, C. E., Seattle.

Registrar:

*H. W. Nightingale, C. E. Seattle.

Division of public health nursing:

*Mary Louise Allen, chief.

Appropriation for two years ending March 31, 1931:

Operations.....	\$100,000
Tuberculosis hospitals—	
State aid to local sanatoria.....	125,000
Additional for King County hospital.....	30,000

WEST VIRGINIA**Public health council:**

B. O. Robinson, M. D., president, Parkersburg.
 W. M. Babb, M. D., Keyser.
 H. A. Barbee, M. D., Point Pleasant.
 W. S. Fulton, M. D., Wheeling.
 W. E. Neal, M. D., Huntington.
 J. L. Pyle, M. D., Chester.
 W. T. Henshaw, M. D., commissioner of health,
 Charleston.

Executive health officer:

*W. T. Henshaw, M. D., commissioner of health,
 Charleston.

Division of sanitary engineering:

*Ellis S. Tisdale, chief engineer, Charleston.
 *John B. Harrington, assistant engineer,
 Charleston.

C. F. Browning, assistant engineer, Charleston.

Division of vital statistics:

*Carl F. Raver, M. D., M. P. H.

Division of child hygiene:

*R. H. Paden, M. D., director, Charleston.
 *Edna M. Hardsaw, R. N., field advisory nurse,
 Charleston.
 *Wayne Welton Gadd, R. N., field advisory
 nurse, Charleston.

Division of preventable diseases:

*W. T. Henshaw, M. D., acting director,
 Charleston.

Bureau of venereal diseases:

*David Littlejohn, A. A. surgeon, U. S. P. H. S.,
 acting director, Charleston.
 *Ada Coddington McDermott, associate direc-
 tor, Charleston.

Division of rural sanitation:

*David Littlejohn, A. A. surgeon, U. S. P. H. S.,
 director, Charleston.

Hygienic laboratory:

*Elizabeth I. Parsons, director, Charleston.
 *Edith K. Myers, laboratory technician,
 Charleston.
 *J. Roy Monroe, technician, Charleston.
 *M. C. Harp, technician, Charleston.

Bureau of public health education:

*Dorothea Campbell, director, Charleston.

Appropriation for fiscal year ending June 30, 1930:

For general use.....	\$126,000
Salary of commissioner.....	4,800
Vaccines.....	10,000
Total.....	140,800

Other sources of revenue:

Expenses of cooperative work with the Federal
 Government:

Expenses of cooperative rural health work
 with the Rockefeller foundation.

Publications issued by health department:

Quarterly bulletin.
 Annual report.

WISCONSIN**Board of health:**

G. Windeheim, M. D., president, Kenosha.
 Joseph Dean, M. D., vice president, Madison.
 J. J. Seelman, M. D., Milwaukee.
 Mina B. Glasier, M. D., Bloomington.
 Stephen Cahana, M. D., Milwaukee.
 H. H. Ainsworth, M. D., Birchwood.
 C. A. Harper, M. D., State health officer,
 Madison.

Executive health officer:

*C. A. Harper, M. D., State health officer, Madi-
 son.

Assistant State health officer:

*G. W. Henika, M. D., assistant State health
 officer, Madison.

Deputy State health officers:

*W. J. Miller, M. D., Madison.
 *G. E. Hoyt, M. D., Milwaukee.
 *V. A. Guder, M. D., Oshkosh.
 *I. D. Wiltrout, M. D., Chippewa Falls.
 *R. L. Frisbie, M. D., Rhinelander.

Bureau of vital statistics:

*C. A. Harper, M. D., State registrar, Madison.
 *L. W. Hutchcroft, statistician, Madison.

Bureau of communicable diseases:

*H. M. Guilford, M. D., director, Madison.

Bureau of sanitary engineering:

*L. F. Warrick, State sanitary engineer, Madi-
 son.
 *O. J. Muegge, assistant sanitary engineer,
 Madison.
 *E. J. Beatty, assistant sanitary engineer,
 Madison.
 *Harold Ruf, assistant sanitary engineer, Madi-
 son.
 *E. J. Tully, chemical engineer, Madison.

Bureau of education:

*L. W. Bridgman, acting director, Madison.

Bureau of child welfare:

*Charlotte Calvert, M. D., acting director,
 Madison.
 *Eleanor Hutchinson, M. D., child health phy-
 sician, Madison.
 *Margaret Nelson, M. D., child health physi-
 cian, Madison.
 *Margaret J. Hatfield, M. D., child health phy-
 sician.
 *Helen Thayer, organizer of infant hygiene
 courses, Madison.

Bureau of public-health nursing:

*Cornelia Van Kooy, R. N., director, Madison.
 *Edith L. Olson, R. N., field advisory nurse,
 Madison.

Bureau of nursing education:

*Adda Eldredge, R. N., director, Madison.

**Bureau of plumbing and domestic sanitary engi-
neering:**

*Frank R. King, State domestic sanitary engi-
 neer, Madison.

Bureau of social hygiene:

*H. M. Guilford, M. D., director, Madison.

*Aimee Zillmer, lecturer, Madison.

*D. M. Warner, lecturer, Madison.

Laboratory service:

*W. D. Stovall, M. D., director, State laboratories, Madison.

*M. S. Nichols, chemist, State laboratory, Madison.

*Anna Brandsmark, director, branch laboratory, Rhinelander.

*Mildred Englebert, director, cooperative laboratory, Beloit.

*Marjorie Bates, director, cooperative laboratory, Oshkosh.

*Henry Miller, director, cooperative laboratory, Kenosha.

*Josephine Foote, director, cooperative laboratory, Wausau.

*Anna Sokolnikoff, director, cooperative laboratory, Superior.

*Clarissa McPetridge, director, cooperative laboratory, Green Bay.

Appropriations for fiscal year ending June 30, 1930:

General administration.....	\$54,000
Emergency appropriation for epidemics.....	7,500
Branch laboratory and State cooperative laboratories.....	9,000
Prevention of infantile blindness.....	1,500
Venereal disease control work.....	36,370
Bureau of sanitary engineering.....	14,000
Bureau of communicable diseases.....	13,300
Prevention of stream and lake pollution.....	15,000

Appropriations for fiscal year ending June 30, 1930—Continued.

Bureau of child welfare and public health nursing.....	\$51,000
Public health work and the investigation and prevention of disease among the Indians.....	15,000
Comfort station supervision.....	5,000
Licensing of embalmers, hotels and restaurants, plumbers, beauty parlors, nurses, and barbers.....	86,642
Total.....	308,312

Publications issued by health department:

Quarterly bulletin.

Biennial report.

WYOMING

Board of health:

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

William H. Roberts, M. D., vice president, Sheridan.

W. H. Hassed, M. D., secretary and executive officer, Cheyenne.

Galen A. Fox, M. D., Cheyenne.

B. V. McDermott, M. D., Hanna.

Executive health officer:

*W. H. Hassed, M. D., State health officer, Cheyenne.

Appropriations for biennial period ending

Mar. 31, 1931:

State board of health.....	\$11,000
Salary of secretary.....	8,000
Maternal and infant welfare.....	7,500
Bureau of vital statistics.....	3,500
Total.....	30,000

DEATHS DURING WEEK ENDED NOVEMBER 2, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended November 2, 1929, and corresponding week of 1928. (From the Weekly Health Index, November 6, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week ended Nov. 2, 1929	Corresponding week, 1928
Policies in force.....	75,003,699	72,146,556
Number of death claims.....	13,901	12,116
Death claims per 1,000 policies in force, annual rate.....	9.7	8.8

Deaths from all causes in certain large cities of the United States during the week ended November 2, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, November 6, 1929, issued by the Bureau of the Census, Department of Commerce)

City	Week ended Nov. 2, 1929		Annual death rate per 1,000, corresponding week, 1928	Deaths under 1 year		Infant mortality rate, week ended Nov. 2, 1929 ¹
	Total deaths	Death rate ¹		Week ended Nov. 2, 1929	Corresponding week, 1928	
Total (63 cities)	6,994	12.4	11.7	577	678	50
Akron	52			8	5	83
Albany ¹	34	14.8	16.1	2	4	40
Atlanta	80	16.4	15.2	4	12	42
White	40			2	4	
Colored	40	(⁹)	(⁹)	2	8	
Baltimore ¹	201	12.7	11.3	18	14	58
White	150			10	9	40
Colored	51	(⁹)	(⁹)	8	5	127
Birmingham	63	14.8	13.6	5	9	45
White	33			2	7	30
Colored	30	(⁹)	(⁹)	3	2	69
Boston	232	15.2	12.8	17	24	47
Bridgeport	20			1	3	17
Buffalo	161	15.1	14.4	7	11	30
Cambridge	18	7.5	12.1	1	4	18
Camden	31	12.0	8.5	1	2	17
Canton	18	8.1	8.5	2	5	47
Chicago ¹	704	11.7	11.2	56	62	50
Cincinnati	137			9	10	53
Cleveland	188	9.7	9.5	21	17	62
Columbus	89	15.6	12.4	7	7	66
Dallas	44	10.6	9.8	2	11	
White	36			1	8	
Colored	8	(⁹)	(⁹)	1	3	
Dayton	42	11.9	8.5	2	6	32
Denver	82	14.6	13.5	10	8	97
Des Moines	25	8.6	8.6	2	0	36
Detroit	267	10.1	11.1	36	51	58
Duluth	14	6.3	5.8	0	0	0
El Paso	20	8.9	16.4	3	8	
Erie	15			1	4	20
Fall River ¹	24	9.3	9.7	3	2	56
Flint	36	12.6	12.3	5	7	61
Fort Worth	27	8.3	7.4	1	2	
White	21			0	2	
Colored	6	(⁹)	(⁹)	1	0	
Grand Rapids	33	10.5	10.8	2	3	30
Houston	67			5	2	
White	46			5	1	
Colored	21	(⁹)	(⁹)	0	1	
Indianapolis	107	14.6	11.9	13	6	104
White	92			11	6	102
Colored	15	(⁹)	(⁹)	2	0	119
Jersey City	64	10.3	9.8	5	6	39
Kansas City, Kans.	21	9.3	10.2	1	1	22
White	15			1	1	25
Colored	6	(⁹)	(⁹)	0	0	0
Kansas City, Mo.	101	13.5	12.2	9	6	76
Knoxville	27	13.4	12.9	1	3	22
White	23			1	3	24
Colored	4	(⁹)	(⁹)	0	0	0
Los Angeles	220			16	13	47
Louisville	176	27.9	13.8	8	13	65
White	130			6	9	56
Colored	46	(⁹)	(⁹)	2	4	126
Lowell	21			3	5	68
Lynn	17	8.4	9.9	3	3	82
Memphis	69	19.0	15.4	8	3	94
White	34			1	2	19
Colored	35	(⁹)	(⁹)	7	1	219
Milwaukee	126	12.1	10.2	19	16	83
Minneapolis	87	10.0	9.5	6	5	37
Nashville	35	13.1	18.7	2	10	32
White	23			1	5	22
Colored	12	(⁹)	(⁹)	1	5	63

Footnotes at end of table.

Deaths from all causes in certain large cities of the United States during the week ended November 2, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928—Continued

City	Week ended Nov. 2, 1929		Annual death rate per 1,000, corresponding week, 1928	Deaths under 1 year		Infant mortality rate, week ended Nov. 2, 1929 ¹
	Total deaths	Death rate ¹		Week ended Nov. 2, 1929	Corresponding week, 1928	
New Bedford.....	30			0	1	0
New Haven.....	40	11.1	12.0	1	2	15
New Orleans.....	155	18.9	19.1	8	31	40
White.....	81			5	15	35
Colored.....	74	(²)	(²)	3	16	50
New York.....	1,404	12.2	11.3	109	125	45
Bronx Borough.....	202	11.1	9.0	16	12	47
Brooklyn Borough.....	475	10.8	10.0	44	53	45
Manhattan Borough.....	530	15.8	15.9	34	48	42
Queens Borough.....	152	9.3	7.8	13	12	53
Richmond Borough.....	45	15.6	12.8	2	0	36
Newark, N. J.....	108	11.9	8.9	10	8	53
Oakland.....	48	9.2	9.5	3	4	33
Oklahoma City.....	31			2	3	40
Omaha.....	37	8.7	12.7	2	7	23
Paterson.....	41	14.8	9.0	3	0	53
Philadelphia.....	435	11.0	10.5	34	36	48
Pittsburgh.....	185	14.4	13.0	28	16	96
Portland, Oreg.....	72			3	2	34
Providence.....	73	13.3	10.4	6	4	53
Richmond.....	57	15.3	15.1	2	6	28
White.....	34			1	2	21
Colored.....	23	(²)	(²)	1	4	41
Rochester.....	73	11.6	9.4	6	5	51
St. Louis.....	220	13.6	13.0	15	16	51
St. Paul.....	39			1	1	10
Salt Lake City ⁴	33	12.5	12.5	4	1	62
San Antonio.....	75	18.0	14.1	7	8	
San Diego.....	36			0	1	0
San Francisco.....	162	14.5	14.7	10	9	64
Seattle.....	90	12.3	10.8	6	6	64
Somerville.....	14	7.1	4.6	0	0	0
Spokane.....	21	10.1	14.4	2	0	52
Springfield, Mass.....	22	7.7	15.0	1	5	17
Syracuse.....	38	10.0	13.9	2	4	24
Tacoma.....	18	8.5	7.1	2	2	51
Toledo.....	82	13.7	13.4	8	14	75
Trenton.....	33	12.4	10.5	4	0	72
Utica.....	21	10.5	14.0	3	2	76
Washington, D. C.....	147	13.9	13.5	7	14	41
White.....	101			3	5	25
Colored.....	46	(²)	(²)	4	9	76
Waterbury.....	18			2	4	51
Wilmington, Del.....	23	9.4	15.5	1	3	26
Worcester.....	51	13.5	14.6	7	7	88
Yonkers.....	25	10.8	7.8	4	2	93

¹ Annual rate per 1,000 population.

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

³ Data for 71 cities.

⁴ Deaths for week ended Friday.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended November 2, 1929, and November 3, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 2, 1929, and November 3, 1928

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928
New England States:								
Maine.....	8	5	-----	1	29	137	0	0
New Hampshire.....	2	-----	-----	21	6	37	0	0
Vermont.....	3	4	-----	-----	-----	2	0	0
Massachusetts.....	95	94	3	5	51	307	1	1
Rhode Island.....	14	19	29	5	-----	11	0	0
Connecticut.....	19	28	5	3	2	42	1	0
Middle Atlantic States:								
New York.....	114	164	16	15	183	330	11	20
New Jersey.....	126	98	6	3	28	68	6	3
Pennsylvania.....	232	198	-----	-----	262	451	5	0
East North Central States:								
Ohio.....	106	155	16	12	198	-----	6	4
Indiana.....	32	62	-----	7	6	6	1	0
Illinois.....	226	270	17	17	103	141	12	4
Michigan.....	96	99	4	10	103	60	10	5
Wisconsin.....	19	25	20	22	163	81	0	7
West North Central States:								
Minnesota.....	25	44	2	1	33	28	1	1
Iowa.....	15	22	-----	-----	22	-----	0	1
Missouri.....	41	43	2	9	16	8	5	3
North Dakota.....	11	4	-----	2	9	-----	0	0
South Dakota.....	-----	-----	-----	5	1	-----	0	0
Nebraska.....	32	18	4	2	7	11	0	1
Kansas.....	55	25	1	5	50	5	0	0
South Atlantic States:								
Delaware.....	1	-----	3	-----	1	-----	0	0
Maryland ¹	19	34	13	8	13	17	0	0
District of Columbia.....	12	75	-----	1	2	2	0	0
Virginia.....	-----	-----	-----	-----	-----	-----	-----	-----
West Virginia.....	34	30	12	8	28	35	0	0
North Carolina.....	208	230	4	-----	1	51	1	0
South Carolina.....	68	80	506	858	-----	-----	0	0
Georgia.....	24	50	85	103	2	26	2	0
Florida.....	16	12	2	-----	1	6	0	0
East South Central States:								
Kentucky.....	31	13	-----	-----	-----	-----	4	1
Tennessee.....	81	48	40	41	39	-----	4	0
Alabama.....	79	156	85	62	7	6	0	1
Mississippi.....	68	32	-----	-----	-----	-----	0	0

¹ New York City only.

¹ Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 2, 1929, and November 3, 1928—Continued

Division and State	Diphtheria		Influenza		Measles		Meningococcus meningitis	
	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928
West South Central States:								
Arkansas.....	20	21	27	56	1	1	0	0
Louisiana.....	47	33	4	10	8	8	0	1
Oklahoma ¹	108	158	47	37	17	2	0	0
Texas.....	111	57	19	34	5	2	0	0
Mountain States:								
Montana.....	2	4	1	-----	147	10	3	3
Idaho.....	1	3	-----	1	9	1	3	1
Wyoming.....	11	11	-----	-----	1	1	3	0
Colorado.....	11	22	-----	4	4	5	0	4
New Mexico.....	13	13	-----	1	2	9	0	0
Arizona.....	32	7	6	1	3	-----	9	0
Utah ¹	-----	7	-----	4	25	2	4	2
Pacific States:								
Washington.....	26	6	-----	-----	28	33	2	2
Oregon.....	8	16	17	19	10	20	2	2
California.....	55	103	24	2,389	59	15	3	3

Division and State	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928
New England States:								
Maine.....	1	2	31	31	0	0	3	3
New Hampshire.....	0	0	11	13	0	0	0	0
Vermont.....	0	1	6	2	5	0	0	0
Massachusetts.....	4	6	156	139	0	0	7	5
Rhode Island.....	0	-----	12	12	0	0	0	0
Connecticut.....	0	0	36	25	0	0	0	0
Middle Atlantic States:								
New York.....	14	17	192	182	20	2	33	54
New Jersey.....	2	0	86	66	0	0	9	8
Pennsylvania.....	12	9	250	250	7	0	42	78
East North Central States:								
Ohio.....	9	5	225	214	86	4	34	22
Indiana.....	0	4	115	76	101	8	6	3
Illinois.....	3	2	333	269	104	15	20	26
Michigan.....	2	3	199	144	81	15	11	5
Wisconsin.....	0	1	88	111	18	14	15	3
West North Central States:								
Minnesota.....	1	2	103	79	2	3	7	10
Iowa.....	6	1	49	64	40	22	2	1
Missouri.....	2	1	53	63	3	3	7	19
North Dakota.....	0	1	24	39	8	0	1	3
South Dakota.....	0	0	13	24	8	3	11	0
Nebraska.....	1	1	31	50	9	1	1	0
Kansas.....	3	1	86	81	11	7	5	3
South Atlantic States:								
Delaware.....	0	0	4	2	0	0	1	1
Maryland ¹	0	1	53	35	0	0	18	23
District of Columbia.....	0	2	5	12	0	0	0	2
Virginia.....	5	-----	-----	-----	45	-----	-----	-----
West Virginia.....	0	2	75	59	9	6	22	15
North Carolina.....	3	0	142	125	8	7	15	17
South Carolina.....	2	1	41	40	0	0	20	32
Georgia.....	0	2	40	38	0	0	4	14
Florida.....	0	0	14	4	0	0	2	3
East South Central States:								
Kentucky.....	0	2	71	56	-----	2	8	5
Tennessee.....	1	0	79	39	0	1	27	25
Alabama.....	0	2	77	49	1	2	12	15
Mississippi.....	0	0	22	24	0	0	10	10

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

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended November 2, 1929, and November 3, 1928—Continued

Division and State	Polio-myelitis		Scarlet fever		Smallpox		Typhoid fever	
	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928	Week ended Nov. 2, 1929	Week ended Nov. 3, 1928
West South Central States:								
Arkansas.....	0	0	26	28	2	0	22	10
Louisiana.....	0	0	24	21	0	0	13	12
Oklahoma ¹	0	1	42	44	32	12	41	71
Texas.....	0	0	28	36	3	3	14	9
Mountain States:								
Montana.....	0	0	30	17	3	22	9	3
Idaho.....	0	2	13	21	6	2	0	1
Wyoming.....	0	0	4	23	10	7	0	1
Colorado.....	0	2	16	19	3	6	1	7
New Mexico.....	1	0	3	9	2	0	4	12
Arizona.....	1	0	17	4	7	1	13	5
Utah ²	0	0	4	10	0	1	3	0
Pacific States:								
Washington.....	3	6	46	27	15	61	12	6
Oregon.....	2	4	27	19	3	40	4	4
California.....	1	4	200	179	17	6	13	11

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

SUMMARY OF MONTHLY REPORTS FROM STATES

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

State	Menin- gococ- menin- gitis	Diph- theria	Influ- enza	Malaria	Measles	Pella- gra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
<i>August, 1929</i>										
Massachusetts.....	13	179	5	4	139	-----	11	199	0	43
<i>September, 1929</i>										
California.....	22	133	51	11	112	7	24	301	88	46
Massachusetts.....	9	223	4	2	106	1	21	278	0	39
Nevada.....	1	2	-----	-----	-----	-----	-----	1	0	1
Virginia.....	5	339	460	111	72	30	81	181	2	124
<i>October, 1929</i>										
Connecticut.....	2	99	45	2	11	-----	4	118	0	10
North Dakota.....	9	29	2	-----	27	-----	2	62	30	11
Wyoming.....	3	3	1	-----	1	-----	0	13	4	6

<i>August, 1929</i>		Cases	<i>September, 1929</i>		Cases
Massachusetts:			Massachusetts:		
Actinomycosis.....	2		Actinomycosis.....	1	
Chicken pox.....	132		Chicken pox.....	268	
German measles.....	13		California.....	127	
Lethargic encephalitis.....	3		Massachusetts.....	81	
Mumps.....	103		Virginia.....	-----	
Ophthalmia neonatorum.....	129		Dysentery:		
Septic sore throat.....	12		California (amebic).....	2	
Tetanus.....	2		California (bacillary).....	6	
Trachoma.....	10		Massachusetts.....	2	
Whooping cough.....	528		Dysentery and diarrhea:		
			Virginia.....	435	
			Food poisoning:		
			California.....	4	

German measles:	Cases	October, 1929	Cases
California.....	24	Chicken pox:	
Massachusetts.....	18	Connecticut.....	241
Granuloma (coccidioidal):		North Dakota.....	90
California.....	2	Wyoming.....	13
Leprosy:		German measles:	
California.....	2	Connecticut.....	7
Lethargic encephalitis:		Impetigo contagiosa:	
California.....	5	Wyoming.....	1
Massachusetts.....	4	Lethargic encephalitis:	
Mumps:		Connecticut.....	4
California.....	580	Mumps:	
Massachusetts.....	67	Connecticut.....	67
Ophthalmia neonatorum:		North Dakota.....	19
California.....	1	Wyoming.....	2
Massachusetts.....	103	Paratyphoid fever:	
Paratyphoid fever:		Connecticut.....	10
California.....	1	Scabies:	
Rabies in animals:		North Dakota.....	1
California.....	61	Septic sore throat:	
Septic sore throat:		Connecticut.....	7
Massachusetts.....	10	Trachoma:	
Tetanus:		North Dakota.....	15
California.....	6	Trichinosis:	
Massachusetts.....	4	Connecticut.....	1
Trachoma:		Undulant fever:	
California.....	6	Connecticut.....	1
Massachusetts.....	2	North Dakota.....	2
Tularaemia:		Vincent's angina:	
Virginia.....	1	North Dakota.....	37
Undulant fever:		Whooping cough:	
California.....	5	Connecticut.....	140
Virginia.....	2	North Dakota.....	16
Whooping cough:		Wyoming.....	6
California.....	429		
Massachusetts.....	415		
Nevada.....	1		
Virginia.....	537		

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

State	Chick- en pox	Diph- theria	Meas- les	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Maine.....	9	6	46	28	42	0	44	12	33
New Hampshire.....		7			10	0		3	
Vermont.....	24	5	49	14	13	17	19	10	53
Massachusetts.....	132	179	139	103	199	0	510	43	528
Rhode Island.....	8	17	7	1	16	0	42	7	16
Connecticut.....	92	52	67	15	47	0	126	23	107
New York.....	232	453	385	282	231	16	1,449	242	1,225
New Jersey.....	70	238	73		99	0	435	55	639
Pennsylvania.....	186	292	298	108	306	6	613	163	1,675
Ohio.....	117	146	151	59	192	106	641	163	1,071
Indiana.....	19	63	91	10	190	114	294	43	179
Illinois.....	119	391	342	94	346	58	908	131	1,244
Michigan.....	127	230	225	94	318	114	807	37	785
Wisconsin.....	124	96	288	75	127	36	232	34	1,212
Minnesota.....	35	48	40		124	10	283	20	210
Iowa.....		17			53	25		67	
Missouri.....	18	68	44	22	91	20	257	84	304
North Dakota.....	25	27	90	10	40	13	24	3	32
South Dakota.....	7	6	10	3	27	28	6	23	19
Nebraska.....	14	12	128	15	36	26	28	9	125
Kansas.....	16	47	81	49	65	29	119	61	144

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

State	Chicken pox	Diphtheria	Measles	Mumps	Scarlet fever	Small-pox	Tuberculosis	Typhoid fever	Whooping cough
Delaware.....	2	4	4	—	2	0	18	17	6
Maryland.....	24	54	16	58	85	0	307	101	249
District of Columbia.....	9	37	5	—	15	0	82	10	41
Virginia.....	64	189	71	—	113	6	128	175	665
West Virginia.....	21	53	66	—	91	5	52	131	205
North Carolina.....	28	343	4	—	199	14	—	186	974
South Carolina.....	38	232	18	55	53	3	173	259	693
Georgia.....	8	88	31	21	68	0	107	226	131
Florida.....	1	59	4	13	11	0	33	17	34
Kentucky ¹	—	—	—	—	—	—	—	—	—
Tennessee.....	5	97	19	15	70	7	307	464	125
Alabama.....	14	149	47	6	102	1	313	156	102
Mississippi.....	226	154	66	102	61	1	277	244	822
Arkansas.....	22	15	3	31	27	13	19	99	88
Louisiana.....	—	84	6	1	23	0	117	102	42
Oklahoma ¹	5	69	39	17	69	16	73	302	51
Texas ¹	—	—	—	—	—	—	—	—	—
Montana.....	10	7	85	25	31	11	8	30	25
Idaho.....	11	8	21	5	17	40	18	7	21
Wyoming.....	5	3	5	3	5	3	11	5	4
Colorado.....	40	25	32	39	18	20	72	59	93
New Mexico ¹	—	—	—	—	—	—	—	—	—
Arizona.....	3	1	3	1	4	2	65	3	4
Utah ¹	—	—	—	—	—	—	—	—	—
Nevada.....	—	—	—	—	—	16	—	—	—
Washington.....	62	25	76	116	37	71	158	32	179
Oregon.....	20	23	46	31	20	40	65	23	40
California.....	148	142	101	412	266	83	723	87	557

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

Case Rates per 1,000 Population (Annual Basis) for the Month of August, 1929

State	Chicken pox	Diphtheria	Measles	Mumps	Scarlet fever	Small-pox	Tuberculosis	Typhoid fever	Whooping cough
Maine.....	0.13	0.09	0.68	0.41	0.62	0.00	0.65	0.18	0.49
New Hampshire.....	—	.18	—	—	.26	.00	—	.08	—
Vermont.....	.80	.17	1.64	.47	.43	.57	.63	.33	1.77
Massachusetts.....	.36	.49	.38	.28	.54	.00	1.38	.12	1.43
Rhode Island.....	.13	.27	.11	.02	.26	.00	.68	.11	.26
Connecticut.....	.64	.36	.46	.10	.33	.00	.87	.16	.74
New York.....	.23	.46	.39	.28	.23	.02	1.46	.24	1.23
New Jersey.....	.21	.72	.22	—	.30	.00	1.32	.17	1.93
Pennsylvania.....	.22	.34	.35	.13	.36	.01	.72	.19	1.96
Ohio.....	.20	.25	.26	.10	.33	.18	1.09	.28	1.82
Indiana.....	.07	.23	.33	.04	.70	.42	1.08	.16	.66
Illinois.....	.19	.61	.54	.15	.54	.09	1.43	.21	1.95
Michigan.....	.32	.58	.56	.24	.80	.29	2.02	.09	1.97
Wisconsin.....	.49	.38	1.13	.30	.50	.14	.91	.13	4.77
Minnesota.....	.15	.20	.17	—	.53	.04	1.21	.09	.90
Iowa.....	—	.08	—	—	.26	.12	—	.32	—
Missouri.....	.06	.23	.15	.07	.30	.07	.86	.28	1.01
North Dakota.....	.46	.50	1.65	.18	.73	.24	.44	.06	.59
South Dakota.....	.12	.10	.17	.05	.45	.46	.10	.38	.31
Nebraska.....	.12	.10	1.06	.12	.30	.22	.23	.07	1.04
Kansas.....	.10	.30	.62	.31	.42	.19	.76	.39	.92
Delaware.....	.10	.19	.19	—	.10	.00	1.38	.82	.29
Maryland.....	.17	.39	.12	.42	.61	.00	2.21	.73	1.79
District of Columbia.....	.19	.77	.10	—	.31	.00	1.71	.21	.86
Virginia.....	.29	.85	.32	—	.51	.03	1.57	.79	3.01
West Virginia.....	.14	.36	.44	—	.61	.03	.35	.88	1.36
North Carolina.....	.11	1.36	.02	—	.79	.06	—	.74	3.85
South Carolina.....	.24	1.45	.11	.34	.33	.02	1.08	1.62	4.33
Georgia.....	.03	.32	.11	.08	.25	.00	.39	.82	.48
Florida.....	.01	.43	.03	.10	.09	.00	.31	.14	.27

¹ Pulmonary.

Case Rates per 1,000 Population (Annual Basis) for the Month of August, 1929— Continued

State	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scarlet fever	Small- pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough
Kentucky ¹									
Tennessee	0.02	0.45	0.09	0.07	0.33	0.03	1.43	2.17	0.58
Alabama	.06	.68	.21	.03	.46	.00	1.42	.71	.46
Mississippi	1.49	1.01	.43	.67	.45	.01	1.82	1.60	5.40
Arkansas	.13	.09	.02	.19	.16	.08	1.11	.59	.53
Louisiana		.50	.04	.01	.14	.00	1.70	.61	.25
Oklahoma ¹	.03	.37	.21	.09	.37	.09	.40	1.64	.28
Texas ¹									
Montana	.21	.15	1.82	.54	.66	.24	.17	.64	.54
Idaho	.23	.17	.44	.11	.36	.84	1.17	.15	.44
Wyoming	.23	.14	.23	.14	.23	.14	1.05	.23	.19
Colorado	.43	.27	.34	.42	.19	.21	.77	.63	.99
New Mexico ¹	.07	.02	.07	.02	.10	.05	1.57	.07	.10
Utah ¹									
Nevada						2.43			
Washington	.45	.18	.56	.85	.27	.52	1.15	.23	1.31
Oregon	.26	.30	.59	.40	.26	.52	.84	.30	.52
California	.37	.36	.25	1.04	.67	.21	1.82	.22	1.40

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

ADMISSIONS TO HOSPITALS FOR THE INSANE, MARCH, 1929

Reports for the month of March, 1929, showing new admissions to hospitals for the care and treatment of the insane, have been received by the Public Health Service from 100 institutions located in 35 States, the District of Columbia, and the Territory of Hawaii. These hospitals reported a total of 151,301 patients (80,071 male and 71,230 female) on March 31, 1929, including those on parole.

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

Psychoses	Number of first admissions		
	Male	Female	Total
1. Traumatic psychoses	12	6	18
2. Senile psychoses	153	98	251
3. Psychoses with cerebral arteriosclerosis	171	77	248
4. General paralysis	201	44	245
5. Psychoses with cerebral syphilis	24	18	42
6. Psychoses with Huntington's chorea	2	2	4
7. Psychoses with brain tumor	1	0	1
8. Psychoses with other brain or nervous disease	35	11	46
9. Alcoholic psychoses	89	14	103
10. Psychoses due to drugs and other exogenous toxins	24	6	30
11. Psychoses with pellagra	7	15	22
12. Psychoses with other somatic diseases	44	42	86
13. Manic-depressive psychoses	165	214	379
14. Involution melancholia	15	41	56
15. Dementia præcox (schizophrenia)	313	275	588
16. Paranoia and paranoid conditions	28	40	68
17. Epileptic psychoses	37	27	64
18. Psychoneuroses and neuroses	19	36	55
19. Psychopathic personality	23	6	29
20. Psychoses with mental deficiency	51	45	96
21. Undiagnosed psychoses	85	86	171
22. Without psychosis	146	47	193
Total	1,645	1,150	2,795

Fifty-eight and nine-tenths per cent of the new admissions were males and 41.1 per cent were females, giving a ratio of 143 males per 100 females.

At the end of the month 14,128 patients were on parole, 7,754 male and 6,374 female. The number on parole was 9.7 per cent of the male patients, 8.9 per cent of the female patients, and 9.3 per cent of the total.

Cases of dementia præcox constituted 21 per cent of the first admissions; manic-depressive psychoses, 13.6 per cent; senile psychoses, 9 per cent; psychoses with cerebral arteriosclerosis, 8.9 per cent; general paralysis, 8.8 per cent; without psychosis, 6.9 per cent; and undiagnosed psychoses, 6.1 per cent.

PATIENTS IN INSTITUTIONS FOR THE FEEBLE-MINDED, JANUARY TO MARCH, 1929

Reports for the first quarter of the year 1929 have been received by the Public Health Service from 27 institutions for the care of the feeble-minded located in 22 States, including one institution for females only with more than 1,200 patients. The total number of patients in these institutions on March 31, 1929, including those on temporary leave or otherwise absent but still on the books, was 33,857.

The first admissions were as follows:

	Male	Female	Total
January.....	159	131	290
February.....	176	130	306
March.....	207	161	368
Total.....	542	422	964

Of the first admissions during the three months, 56.2 per cent were males and 43.8 per cent were females, the ratio being 128 males per 100 females.

On March 31, 1929, there were 17,329 male patients and 16,528 female patients on the books. During the three months 258 patients were discharged—145 male patients and 113 female patients. One hundred and seventy male patients and 108 female patients died.

The annual death rates based on the estimated number of patients on the books of the institutions the middle of February were: Males, 40.2 per 1,000; females, 26.6 per 1,000; persons, 33.5 per 1,000.

The following table shows the numbers of patients in the institutions and on temporary leave on January 1, and at the end of each month

of the first quarter of 1929, and the percentage of the total patients who were on leave:

	Jan. 1, 1929	Jan. 31, 1929	Feb. 28, 1929	Mar. 31, 1929
Patients in institutions:				
Male.....	14,609	14,910	15,039	15,052
Female.....	14,453	14,656	14,813	14,774
Total.....	29,062	29,566	29,851	29,826
Patients on temporary leave:				
Male.....	2,471	2,202	2,183	2,277
Female.....	1,883	1,746	1,713	1,754
Total.....	4,354	3,948	3,896	4,031
Total patients on books:				
Male.....	17,080	17,112	17,222	17,329
Female.....	16,336	16,402	16,625	16,528
Total.....	33,416	33,514	33,747	33,857
Per cent of total patients on temporary leave:				
Male.....	14.5	12.9	12.7	13.1
Female.....	11.5	10.6	10.4	10.6
Total.....	13.0	11.8	11.5	11.9

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 95 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,395,-000. The estimated population of the 88 cities reporting deaths is more than 29,820,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended October 26, 1929, and October 27, 1928

	1929	1928	Estimated expectancy
<i>Cases reported</i>			
Diphtheria:			
46 States.....	2,420	2,490	
95 cities.....	819	780	1,001
Measles:			
46 States.....	1,507	1,573	
95 cities.....	181	314	
Meningococcus meningitis:			
46 States.....	102	94	
95 cities.....	35	46	
Poliomyelitis:			
46 States.....	104	137	
Scarlet fever:			
46 States.....	2,873	2,397	
95 cities.....	834	675	792
Smallpox:			
46 States.....	432	231	
95 cities.....	62	13	21
Typhoid fever:			
46 States.....	496	644	
95 cities.....	92	111	101
<i>Deaths reported</i>			
Influenza and pneumonia:			
88 cities.....	674	566	
Smallpox:			
88 cities.....	0	0	

City reports for week ended October 26, 1929

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

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

Division, State, and city	Population, July 1, 1928, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
NEW ENGLAND									
Maine:									
Portland.....	73,600	3	2	0		0	0	0	2
New Hampshire:									
Concord.....	(1)	0	1	1		0	0	0	3
Manchester.....	85,700	0	2	0		0	0	0	1
Vermont:									
Barre.....	(1)		0						
Massachusetts:									
Boston.....	799,200	39	39	23		0	3	21	9
Fall River.....	134,300	3	4	4	1	0	0	2	1
Springfield.....	149,800	26	4	9		0	0	1	0
Worcester.....	197,600	14	6	0		0	10	0	1
Rhode Island:									
Pawtucket.....	73,100	1	1	1		0	0	0	1
Providence.....	286,300	3	8	8		0	0	0	5
Connecticut:									
Bridgeport.....	(1)	0	7	1		0	0	0	1
Hartford.....	172,300	0	6	1		0	0	3	2
New Haven.....	187,900	19	1	1	1	0	0	0	3
MIDDLE ATLANTIC									
New York:									
Buffalo.....	555,800	27	14	16		0	2	3	12
New York.....	6,017,500	0	142	74	17	15	11	17	181
Rochester.....	328,200	4	7	1	1	1	0	0	3
Syracuse.....	199,300	7	8	0		0	0	5	6
New Jersey:									
Camden.....	135,400	4	8	8		0	0	0	2
Newark.....	473,600	18	13	34		0	4	6	12
Trenton.....	139,000	0	3	1		0	0	0	4
Pennsylvania:									
Philadelphia.....	2,064,200	38	60	22	6	5	5	32	46
Pittsburgh.....	673,800	28	30	21	3	3	21	0	32
Reading.....	115,400	7	2	1		0	0	0	0
EAST NORTH CENTRAL									
Ohio:									
Cincinnati.....	413,700	11	13	12		2	0	0	14
Cleveland.....	1,010,300	64	53	17	4	1	2	5	23
Columbus.....	299,000	38	10	4	3	2	1	0	5
Toledo.....	313,200	54	14	2	2	2	51	0	1
Indiana:									
Fort Wayne.....	105,300	0	4	3		1	1	0	4
Indianapolis.....	382,100	15	15	4		0	2	2	10
South Bend.....	86,100	0	3	0		0	0	0	3
Terre Haute.....	73,500	14	3	1		0	0	0	0
Illinois:									
Chicago.....	3,157,400	114	91	144	5	3	6	13	50
Springfield.....	67,200	9	2	0		0	0	0	0
Michigan:									
Detroit.....	1,378,900	51	65	63	4	6	19	20	25
Flint.....	148,800	5	8	1		0	0	1	1
Grand Rapids.....	164,200	0	4	0		1	2	3	1

¹ No estimate of population made.

City reports for week ended October 26, 1929—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chick-en pox, cases re-ported	Diphtheria		Influenza		Meas-sles, cases re-ported	Mumps, cases re-ported	Pneu-monia, deaths re-ported
			Cases, esti-mated expect-ancy	Cases re-ported	Cases re-ported	Deaths re-ported			
EAST NORTH CENTRAL—continued									
Wisconsin:									
Kenosha.....	56,500		2						
Milwaukee.....	544,200	43	23	4		0	1	4	6
Racine.....	74,400	6	3	2		0	0	0	1
Superior.....	(1)	0	0	1	1	0	39	0	0
WEST NORTH CENTRAL									
Minnesota:									
Duluth.....	116,800	11	2	0		0	0	0	3
Minneapolis.....	455,900	45	33	7		1	6	8	3
St. Paul.....	(1)	12	14	3		0	0	2	6
Iowa:									
Des Moines.....	151,900	0	4	1			0	0	
Sioux City.....	80,000	9	2	0			0	3	
Waterloo.....	37,100	5	1	0			1	0	
Missouri:									
Kansas City.....	391,000	19	11	8	1	0	1	2	5
St. Joseph.....	78,500	2	2	2		0	0	0	2
St. Louis.....	848,100	11	40	33			2	4	
North Dakota:									
Fargo.....	(1)	5	0	0		0	1	2	0
Grand Forks.....	(1)	16	0	0			0	0	
South Dakota:									
Aberdeen.....	(1)	8	0	0			0	0	
Sioux Falls.....	(1)	0	1	0			0	0	
Nebraska:									
Omaha.....	222,800	23	13	15		0	0	0	3
Kansas:									
Topeka.....	62,800	3	3	1		0	0	11	1
Wichita.....	99,300		4						
SOUTH ATLANTIC									
Delaware:									
Wilmington.....	128,500	0	3	0		0	0	0	5
Maryland:									
Baltimore.....	630,400	21	27	9	5	0	2	7	31
Cumberland.....	(1)	0	1	0		0	0	0	0
Frederick.....	(1)	0	0	0		0	0	0	0
District of Columbia:									
Washington.....	552,000	7	21	5	2	1	1	0	11
Virginia:									
Lynchburg.....	38,600	7	4	1		0	0	1	1
Norfolk.....	184,200	1	3	4		0	0	0	4
Richmond.....	194,400	1	26	16	4	1	0	1	2
Roanoke.....	64,600	0	9	2		0	0	0	1
West Virginia:									
Charleston.....	55,200	10	3	1		0	1	0	1
Wheeling.....	(1)	0	2	1		0	0	1	3
North Carolina:									
Raleigh.....	(1)	1	4	3		0	0	0	3
Wilmington.....	39,100	0	1	0		0	0	0	1
Winston-Salem.....	80,000	2	6	7		0	0	0	1
South Carolina:									
Charleston.....	75,900	0	1	0	32	0	0	0	1
Columbia.....	50,600	0	2	2		0	0	0	4
Georgia:									
Atlanta.....	255,100	2	11	21	15	0	1	1	2
Brunswick.....	(1)	0	1	0		0	0	0	1
Savannah.....	99,900	0	3	0		0	0	0	1
Florida:									
Miami.....	156,700	0	1	5		0	0	2	1
St. Petersburg.....	53,300		0			0			0
Tampa.....	113,400	2	2	6		0	0	1	1

* No estimate of population made.

City reports for week ended October 26, 1929—Continued

Division, State, and city	Population, July 1, 1928, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
EAST SOUTH CENTRAL									
Kentucky:									
Covington.....	59,000	1	2	4	-----	0	0	0	5
Tennessee:									
Memphis.....	190,200	0	10	13	-----	1	0	0	3
Nashville.....	139,600	0	5	0	3	1	0	0	4
Alabama:									
Birmingham.....	222,400	0	8	7	6	0	3	1	5
Mobile.....	60,600	0	2	1	-----	1	0	0	1
Montgomery.....	63,100	1	4	2	-----	-----	0	0	-----
WEST SOUTH CENTRAL									
Arkansas:									
Fort Smith.....	(1)	0	1	2	-----	-----	0	0	-----
Little Rock.....	79,200	2	1	1	-----	0	0	0	1
Louisiana:									
New Orleans.....	429,400	0	11	21	2	3	0	0	11
Shreveport.....	81,300	1	3	0	-----	0	0	1	2
Oklahoma:									
Tulsa.....	170,500	6	5	5	-----	-----	2	0	-----
Texas:									
Dallas.....	217,800	3	17	41	-----	0	3	0	1
Fort Worth.....	170,600	0	6	8	-----	0	0	0	4
Galveston.....	50,600	0	1	3	-----	0	0	0	0
Houston.....	(1)	0	6	25	-----	0	1	0	2
San Antonio.....	218,100	0	3	11	-----	2	0	0	5
MOUNTAIN									
Montana:									
Billings.....	(1)	1	0	0	-----	0	0	6	0
Great Falls.....	(1)	11	1	0	-----	0	2	7	1
Helena.....	(1)	0	0	0	-----	0	0	5	0
Missoula.....	(1)	3	1	0	-----	0	0	0	0
Idaho:									
Boise.....	(1)	5	0	0	-----	0	0	0	1
Colorado:									
Denver.....	294,200	20	16	2	-----	0	0	3	10
Pueblo.....	44,200	0	4	0	-----	0	0	0	1
New Mexico:									
Albuquerque.....	(1)	0	0	0	-----	0	0	0	2
Utah:									
Salt Lake City.....	138,000	20	4	1	-----	1	1	4	1
Nevada:									
Reno.....	(1)	0	0	0	1	1	0	0	0
PACIFIC									
Washington:									
Seattle.....	383,200	27	6	2	-----	-----	1	21	-----
Spokane.....	109,100	13	4	0	-----	-----	1	0	-----
Tacoma.....	110,500	13	3	17	-----	0	0	0	3
Oregon:									
Portland.....	(1)	19	12	3	-----	0	1	3	3
Salem.....	(1)	1	0	0	-----	0	0	1	0
California:									
Los Angeles.....	(1)	11	44	22	18	1	1	8	5
Sacramento.....	75,700	3	2	0	-----	0	0	27	3
San Francisco.....	585,300	51	17	9	2	0	23	22	3

¹ No estimate of population made.

City reports for week ended October 26, 1929—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths reported	Typhoid fever			Whoop- ing cough, cases reported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths reported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths reported		
NEW ENGLAND											
Maine:											
Portland.....	1	5	0	0	0	0	0	0	0	0	13
New Hampshire:											
Concord.....	1	0	0	0	0	0	0	0	0	0	10
Manchester.....	1	0	0	0	0	0	0	0	0	0	12
Vermont:											
Barre.....	0		0				0				
Massachusetts:											
Boston.....	36	42	0	0	0	10	3	4	0	23	191
Fall River.....	2	0	0	0	0	2	0	0	0	0	19
Springfield.....	6	1	0	0	0	2	0	0	0	0	36
Worcester.....	9	4	0	0	0	0	0	0	0	12	37
Rhode Island:											
Pawtucket.....	0	2	0	0	0	0	0	0	0	0	17
Providence.....	5	10	0	0	0	3	1	1	0	3	64
Connecticut:											
Bridgeport.....	6	3	0	0	0	0	0	1	0	0	27
Hartford.....	4	3	0	0	0	0	0	1	0	0	18
New Haven.....	4	2	0	0	0	1	1	0	1	8	54
MIDDLE ATLANTIC											
New York:											
Buffalo.....	15	20	0	0	0	8	1	0	0	7	138
New York.....	74	57	0	0	0	100	21	10	5	44	1,497
Rochester.....	5	2	0	0	0	1	1	0	0	1	72
Syracuse.....	6	3	0	0	0	0	1	0	0	21	50
New Jersey:											
Camden.....	3	2	0	0	0	3	1	0	0	0	36
Newark.....	9	6	0	0	0	6	1	2	0	28	108
Trenton.....	1	2	0	0	0	3	0	1	1	1	39
Pennsylvania:											
Philadelphia.....	47	43	0	0	0	28	8	3	0	22	464
Pittsburgh.....	34	18	0	0	0	7	1	1	0	5	168
Reading.....	1	2	0	0	0	1	0	0	0	15	25
EAST NORTH CENTRAL											
Ohio:											
Cincinnati.....	11	15	1	1	0	8	0	1	0	2	140
Cleveland.....	22	26	0	0	0	10	2	0	0	23	179
Columbus.....	9	6	1	0	0	6	0	2	1	6	
Toledo.....	9	11	1	0	0	5	2	1	0	1	90
Indiana:											
Fort Wayne.....	1	0	0	10	0	0	1	0	0	0	26
Indianapolis.....	11	5	2	1	0	3	1	0	0	2	89
South Bend.....	3	2	0	0	0	2	0	0	0	0	16
Terre Haute.....	3	2	0	0	0	2	1	0	0	0	20
Illinois:											
Chicago.....	74	145	1	0	0	35	6	3	2	78	657
Springfield.....	3	3	0	1	0	1	0	1	0	2	20
Michigan:											
Detroit.....	61	59	1	1	0	10	3	4	1	29	309
Flint.....	9	9	0	5	0	0	0	0	0	0	21
Grand Rapids.....	8	7	0	0	0	1	0	0	0	8	24
Wisconsin:											
Kenosha.....	2		0				1				
Milwaukee.....	19	17	0	0	0	4	0	0	0	26	
Racine.....	3	2	0	0	0	0	0	0	0	3	17
Superior.....	3	3	0	0	0	1	0	0	0	0	9
WEST NORTH CENTRAL											
Minnesota:											
Duluth.....	8	2	1	0	0	0	0	0	0	3	23
Minneapolis.....	40	8	0	0	0	1	1	0	0	9	72
St. Paul.....	18	15	2	0	0	5	1	1	0	2	59
Iowa:											
Des Moines.....	10	10	0	2			0	1		0	28
Sioux City.....	2	1	0	0			0	0		1	1
Waterloo.....	2	2	0	11			0	0		0	

City reports for week ended October 26, 1929—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culo- sis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
WEST NORTH CEN- TRAL—con.											
Missouri:											
Kansas City.....	12	19	0	0	0	7	1	0	0	0	95
St. Joseph.....	3	2	1	3	0	0	0	0	0	0	41
St. Louis.....	31	22	-----	1	0	15	3	0	0	6	248
North Dakota:											
Fargo.....	2	4	0	0	0	1	0	2	0	3	4
Grand Forks.....	2	0	0	6	-----	-----	0	0	-----	0	-----
South Dakota:											
Aberdeen.....	1	1	0	0	-----	-----	0	0	-----	2	-----
Sioux Falls.....	2	0	0	13	-----	-----	0	0	-----	0	6
Nebraska:											
Omaha.....	4	1	0	1	0	7	0	0	0	4	58
Kansas:											
Topeka.....	5	12	0	0	0	0	1	0	0	2	5
Wichita.....	6	-----	1	-----	-----	-----	0	-----	-----	-----	-----
SOUTH ATLANTIC											
Delaware:											
Wilmington.....	4	0	0	0	0	1	1	0	0	0	30
Maryland:											
Baltimore.....	13	24	0	0	0	10	6	4	3	27	205
Cumberland.....	0	1	0	0	0	1	0	2	0	0	5
Frederick.....	1	0	0	0	0	0	0	0	0	0	2
District of Colum- bia:											
Washington.....	15	7	0	0	0	9	2	1	0	0	135
Virginia:											
Lynchburg.....	2	0	0	0	0	0	0	1	0	10	6
Norfolk.....	2	5	0	0	0	0	0	1	0	5	-----
Richmond.....	9	13	0	0	0	1	1	0	0	1	38
Roanoke.....	4	8	0	0	0	0	1	0	0	0	19
West Virginia:											
Charleston.....	2	2	0	0	0	1	1	0	0	0	17
Wheeling.....	3	2	0	0	0	1	0	0	0	2	20
North Carolina:											
Raleigh.....	2	1	0	0	0	1	0	0	0	0	18
Wilmington.....	1	0	0	0	0	0	0	0	0	0	9
Winston-Salem.....	3	0	1	0	0	5	0	1	0	0	18
South Carolina:											
Charleston.....	1	2	0	0	0	0	1	1	0	0	27
Columbia.....	0	1	0	0	0	1	0	0	1	4	20
Georgia:											
Atlanta.....	2	24	0	0	0	2	1	1	0	3	47
Brunswick.....	0	1	0	0	0	0	0	0	0	0	6
Savannah.....	1	1	0	0	0	2	1	0	0	0	33
Florida:											
Miami.....	1	2	0	0	0	3	1	0	0	3	23
St. Petersburg.....	0	-----	0	-----	0	0	0	-----	1	-----	8
Tampa.....	0	6	1	0	0	1	0	0	0	0	14
EAST SOUTH CEN- TRAL											
Kentucky:											
Covington.....	3	0	0	0	0	0	0	0	0	0	18
Tennessee:											
Memphis.....	5	2	0	0	0	1	3	4	0	2	67
Nashville.....	3	1	0	0	0	3	4	1	1	6	-----
Alabama:											
Birmingham.....	4	8	1	0	0	3	1	2	1	2	69
Mobile.....	0	0	0	0	0	0	0	0	0	0	23
Montgomery.....	1	5	0	0	-----	-----	0	0	-----	1	-----
WEST SOUTH CEN- TRAL											
Arkansas:											
Fort Smith.....	0	3	0	0	-----	-----	0	0	-----	0	-----
Little Rock.....	3	2	0	0	0	0	1	2	0	0	-----

City reports for week ended October 26, 1929—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
WEST SOUTH CENTRAL—CON.											
Louisiana:											
New Orleans.....	4	10	0	0	0	13	3	3	0	0	151
Shreveport.....	0	1	0	0	0	0	0	0	2	0	34
Oklahoma:											
Tulsa.....	2	5	0	1			0	1		3	
Texas:											
Dallas.....	6	11	0	0	0	2	1	1	1	0	39
Fort Worth.....	2	3	0	0	0	2	0	0	0	0	27
Galveston.....	0	1	0	0	0	1	1	1	0	0	11
Houston.....	2	6	1	0	0	6	0	4	0	0	48
San Antonio.....	0	5	0	0	0	8	1	0	1	0	68
MOUNTAIN											
Montana:											
Billings.....	0	0	0	0	0	0	0	0	0	0	9
Great Falls.....	1	12	1	0	0	0	0	2	0	0	11
Helena.....	0	0	0	0	0	0	0	7	0	0	3
Missoula.....	0	0	0	4	0	1	0	11	0	0	5
Idaho:											
Boise.....	0	0	0	1	0	0	0	1	0	0	7
Colorado:											
Denver.....	8	9	0	1	0	8	1	0	0	4	75
Pueblo.....	1	0	0	0	0	0	1	0	0	0	4
New Mexico:											
Albuquerque.....	0	1	0	0	0	5	0	1	0	0	16
Utah:											
Salt Lake City.....	2	6	0	0	0	2	2	2	0	4	36
Nevada:											
Reno.....	0	0	0	0	0	0	0	0	0	0	7
PACIFIC											
Washington:											
Seattle.....	8	5	1	0			1	1		9	
Spokane.....	8	7	1	0			1	0		1	
Tacoma.....	4	2	2	14	0	1	0	0	0	2	28
Oregon:											
Portland.....	8	2	3	2	0	2	0	0	0	2	68
Salem.....	0	0	0	0	0	0	0	1	0	0	
California:											
Los Angeles.....	17	20	2	0	0	27	2	0	1	9	227
Sacramento.....	2	2	0	0	0	1	1	0	0	2	34
San Francisco.....	10	7	0	7	0	5	1	1	0	3	126

Division, State, and city	Meningococcus meningitis		Lethargic en- cephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts:									
Boston.....	0	0	0	0	0	0	2	3	2
Worcester.....	2	0	0	1	0	0	0	0	0
Rhode Island:									
Providence.....	0	0	0	0	0	0	0	1	0
MIDDLE ATLANTIC									
New York:									
Buffalo.....	0	0	0	0	0	0	0	6	1
New York City.....	6	6	2	1	0	0	12	2	0
Rochester.....	0	0	0	0	0	0	0	1	0

¹ Typhus fever, 1 case at New York City, N. Y.

City reports for week ended October 26, 1929—Continued

Division, State, and city	Meningococcus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
MIDDLE ATLANTIC—contd.									
New Jersey:									
Camden.....	0	0	0	1	0	0	0	0	0
Newark.....	3	2	0	0	0	0	0	0	0
Pennsylvania:									
Philadelphia.....	2	2	0	0	0	0	2	3	0
Pittsburgh.....	0	1	0	0	0	0	0	3	1
EAST NORTH CENTRAL									
Ohio:									
Cleveland.....	0	0	0	0	0	0	1	1	0
Columbus.....	2	0	0	0	0	0	0	0	0
Indiana:									
Fort Wayne.....	1	0	0	0	0	0	0	0	0
Indianapolis.....	0	1	0	0	0	0	1	0	0
Illinois:									
Chicago.....	3	1	0	0	0	0	4	1	0
Springfield.....	0	0	0	0	0	0	0	1	1
Michigan:									
Detroit.....	6	4	0	0	0	0	1	0	0
WEST NORTH CENTRAL									
Minnesota:									
Minneapolis.....	0	0	0	0	0	0	1	1	0
Iowa:									
Des Moines.....	0	0	0	0	0	0	0	2	0
Missouri:									
Kansas City.....	0	1	0	0	0	0	0	0	0
St. Louis.....	2	1	0	0	0	0	0	0	0
SOUTH ATLANTIC									
Maryland:									
Baltimore.....	1	0	0	1	0	0	2	1	0
District of Columbia:									
Washington.....	0	0	1	1	0	0	1	1	0
North Carolina:									
Wilmington.....	0	0	0	0	0	1	0	0	0
Winston-Salem.....	0	0	0	0	0	1	0	0	0
South Carolina:									
Charleston.....	0	0	0	0	2	1	0	0	0
Columbia.....	0	0	0	0	0	1	0	0	0
Georgia:									
Atlanta.....	0	0	0	0	0	1	0	0	0
Savannah.....	0	0	0	0	1	0	0	0	0
EAST SOUTH CENTRAL									
Kentucky:									
Covington.....	0	1	0	0	0	0	0	0	0
Alabama:									
Birmingham.....	1	0	0	0	0	0	0	0	0
WEST SOUTH CENTRAL									
Louisiana:									
Shreveport.....	0	0	0	0	0	1	0	0	0
MOUNTAIN									
Utah:									
Salt Lake City.....	2	2	0	0	0	0	0	0	0
PACIFIC									
Washington:									
Seattle.....	3	0	0	0	0	0	1	0	0
Oregon:									
Portland.....	0	0	0	0	0	0	1	2	0
California:									
Los Angeles.....	1	0	0	0	0	0	1	0	0
Sacramento.....	0	1	0	0	0	0	0	0	0
San Francisco.....	0	1	0	0	0	0	0	0	0

* Rabies (in man), 1 case and 1 death at Detroit, Mich.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended October 26, 1929, compared with those for a like period ended October 27, 1928. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have an estimated aggregate population of more than 31,000,000. The 91 cities reporting deaths have nearly 30,000,000 estimated population. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

*Summary of weekly reports from cities, September 22 to October 26, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928*¹

DIPHTHERIA CASE RATES

	Week ended—									
	Sept. 28, 1929	Sept. 29, 1928	Oct. 5, 1929	Oct. 6, 1928	Oct. 12, 1929	Oct. 13, 1928	Oct. 19, 1929	Oct. 20, 1928	Oct. 26, 1929	Oct. 27, 1928
98 cities.....	83	88	97	100	112	117	136	² 126	² 135	131
New England.....	77	62	88	103	95	124	129	145	⁴ 111	156
Middle Atlantic.....	60	62	72	84	75	83	88	84	86	99
East North Central.....	90	97	124	92	139	111	155	² 133	² 164	154
West North Central.....	100	76	108	127	123	137	167	127	⁴ 138	153
South Atlantic.....	112	138	129	134	139	210	180	241	139	186
East South Central.....	136	161	156	154	231	231	170	231	183	168
West South Central.....	170	109	206	174	265	211	352	199	411	174
Mountain.....	26	106	26	106	0	44	70	62	26	27
Pacific.....	67	72	57	64	62	79	90	72	125	67

MEASLES CASE RATES

98 cities.....	13	19	17	28	22	32	30	² 40	² 30	53
New England.....	18	55	34	85	16	69	59	179	⁴ 30	244
Middle Atlantic.....	10	10	12	18	12	27	17	20	21	25
East North Central.....	13	22	12	23	29	31	40	² 24	⁴ 47	41
West North Central.....	10	14	10	43	23	49	31	76	² 22	49
South Atlantic.....	13	13	11	23	9	40	9	34	9	69
East South Central.....	0	0	0	0	14	7	0	14	20	0
West South Central.....	12	8	0	4	4	0	4	0	16	8
Mountain.....	44	9	35	44	61	53	52	71	26	124
Pacific.....	25	41	67	41	67	18	75	41	65	43

SCARLET FEVER CASE RATES

98 cities.....	95	77	102	99	115	113	138	² 111	² 139	115
New England.....	100	83	136	90	163	138	174	152	⁴ 164	117
Middle Atlantic.....	42	38	48	42	48	58	69	69	75	57
East North Central.....	161	100	149	132	173	153	214	² 137	² 193	151
West North Central.....	108	115	119	182	140	180	173	139	⁴ 176	215
South Atlantic.....	105	80	120	121	139	142	127	124	174	113
East South Central.....	75	210	81	133	122	154	231	133	109	126
West South Central.....	75	85	75	150	134	97	107	73	154	77
Mountain.....	139	62	131	18	148	80	157	89	235	62
Pacific.....	87	87	132	113	90	97	117	151	107	179

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

² South Bend, Ind., not included.

³ Barre, Vt., Kenosha, Wis., and Wichita, Kans., not included.

⁴ Barre, Vt., not included.

⁵ Kenosha, Wis., not included.

⁶ Wichita, Kans., not included.

Summary of weekly reports from cities, September 22 to October 26, 1929—Annual rates per 100,000 population, compared with rates for the corresponding period of 1928—Continued

SMALLPOX CASE RATES

	Week ended—									
	Sept. 28, 1929	Sept. 29, 1928	Oct. 5, 1929	Oct. 6, 1928	Oct. 12, 1929	Oct. 13, 1928	Oct. 19, 1929	Oct. 20, 1928	Oct. 26, 1929	Oct. 27, 1928
98 cities.....	4	2	7	3	7	1	12	13	10	2
New England.....	0	0	0	0	0	0	0	0	0	2
Middle Atlantic.....	0	0	0	0	1	0	0	0	0	0
East North Central.....	3	1	7	5	3	2	7	13	12	3
West North Central.....	8	2	2	2	13	0	21	2	32	2
South Atlantic.....	0	0	0	0	0	0	0	0	0	0
East South Central.....	0	7	48	0	0	0	0	0	0	0
West South Central.....	0	4	0	0	4	4	0	0	0	4
Mountain.....	96	9	52	9	96	9	122	62	52	0
Pacific.....	10	15	37	18	35	5	87	10	52	15

TYPHOID FEVER CASE RATES

98 cities.....	20	23	16	24	26	22	18	18	15	19
New England.....	7	9	11	16	16	16	9	7	16	16
Middle Atlantic.....	12	26	14	25	10	20	8	23	8	18
East North Central.....	9	14	12	13	8	11	10	17	7	10
West North Central.....	23	27	15	12	8	16	25	10	6	14
South Atlantic.....	17	27	30	33	26	38	24	40	21	44
East South Central.....	81	77	20	42	27	63	68	42	48	63
West South Central.....	28	41	8	53	28	28	16	8	43	24
Mountain.....	313	18	113	124	749	89	192	53	200	27
Pacific.....	10	13	10	28	7	26	20	13	5	13

INFLUENZA DEATH RATES

91 cities.....	5	6	6	7	8	7	8	10	9	11
New England.....	2	5	5	7	0	9	2	2	0	5
Middle Atlantic.....	5	2	7	7	8	4	6	7	12	8
East North Central.....	4	3	5	5	8	7	9	17	10	5
West North Central.....	3	3	6	3	3	3	9	12	3	12
South Atlantic.....	6	8	7	10	11	4	9	6	4	10
East South Central.....	0	8	0	23	22	15	7	46	22	8
West South Central.....	12	29	16	8	16	29	16	21	20	12
Mountain.....	17	0	0	18	26	9	17	62	17	44
Pacific.....	3	24	10	7	7	17	7	27	3	54

PNEUMONIA DEATH RATES

91 cities.....	67	68	77	87	80	81	97	105	108	89
New England.....	72	60	36	51	75	64	97	126	64	74
Middle Atlantic.....	72	75	93	106	87	94	118	124	144	92
East North Central.....	54	51	61	76	65	67	81	87	92	78
West North Central.....	81	81	108	89	54	64	69	77	73	61
South Atlantic.....	60	80	61	96	103	96	81	115	112	117
East South Central.....	118	123	30	107	59	92	111	92	133	130
West South Central.....	97	100	118	100	118	79	93	75	89	83
Mountain.....	70	35	122	62	122	115	122	62	122	124
Pacific.....	39	64	49	47	59	54	85	98	46	98

¹ South Bend, Ind., not included.

² Barre, Vt., Kenosha, Wis., and Wichita, Kans., not included.

³ Barre, Vt., not included.

⁴ Kenosha, Wis., not included.

⁵ Wichita, Kans., not included.

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

Groups of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases		Aggregate population of cities reporting deaths	
			1929	1928	1929	1928
Total	98	91	31,568,400	31,052,700	29,995,100	29,498,600
New England.....	12	12	2,305,100	2,273,900	2,305,100	2,273,900
Middle Atlantic.....	10	10	10,809,700	10,702,200	10,809,700	10,702,200
East North Central.....	16	16	8,181,900	8,001,300	8,181,900	8,001,300
West North Central.....	12	9	2,712,100	2,673,300	1,736,900	1,708,100
South Atlantic.....	19	19	2,783,200	2,732,900	2,783,200	2,732,900
East South Central.....	6	5	767,900	745,500	704,200	682,400
West South Central.....	8	7	1,319,100	1,289,900	1,285,000	1,256,400
Mountain.....	9	9	598,800	590,200	598,800	590,200
Pacific.....	6	4	2,090,600	2,043,500	1,590,300	1,551,200

FOREIGN AND INSULAR

Quebec Province—Communicable diseases—Week ended October 19, 1929.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended October 19, 1929, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis.....	4	Poliomyelitis.....	2
Chicken pox.....	36	Scarlet fever.....	88
Diphtheria.....	79	Smallpox.....	5
Influenza.....	1	Tuberculosis.....	55
Measles.....	58	Typhoid fever.....	6
Mumps.....	16	Whooping cough.....	75

CUBA

Habana—Communicable diseases—October, 1929.—During the month of October, 1929, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis.....	2	2	Measles.....	3	-----
Chicken pox.....	13	-----	Poliomyelitis.....	1	1
Diphtheria.....	27	4	Scarlet fever.....	5	-----
Leprosy.....	3	-----	Tuberculosis.....	166	36
Malaria.....	28	-----	Typhoid fever.....	30	7

Provinces—Communicable diseases—Four weeks ended August 31, 1929.—During the four weeks from August 4 to 31, 1929, cases of certain communicable diseases were reported in the Provinces of Cuba as follows:

Disease	Pinar del Río	Habana	Matanzas	Santa Clara	Cama-guey	Oriente	Total
Cancer.....	-----	8	1	1	1	1	12
Chicken pox.....	-----	5	-----	-----	-----	-----	5
Diphtheria.....	1	8	1	10	3	2	25
Malaria.....	3	14	-----	5	15	28	65
Measles.....	2	15	-----	1	13	-----	31
Paratyphoid fever.....	3	4	1	6	1	3	18
Poliomyelitis.....	-----	1	-----	-----	-----	-----	1
Scarlet fever.....	-----	1	-----	1	-----	-----	2
Typhoid fever.....	63	74	12	91	20	44	304

DENMARK

Communicable diseases—August, 1929.—During the month of August, 1929, cases of communicable diseases were reported in Denmark as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis.....	10	Paratyphoid fever.....	12
Chicken pox.....	5	Polioomyelitis.....	11
Diphtheria and croup.....	211	Puerperal fever.....	18
Influenza.....	1, 859	Scarlet fever.....	149
Jaundice.....	93	Typhoid fever.....	20
Lethargic encephalitis.....	12	Undulant fever ¹	54
Measles.....	144	Whooping cough.....	697
Mumps.....	568		

¹ Reported from State serum institute.

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

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

[illegible]

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

[illegible]

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

[illegible]

[illegible]

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

PLAGUE—Continued

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

Place	Apr. 7- May 4, 1929	May 5- June 1, 1929	June 2-26, 1929	June 30- July 27, 1929	July 28- Aug. 24, 1929	Week ended—										Nov. 2, 1929	
						September, 1929					October, 1929						
						Aug. 31, 1929	7	14	21	28	5	12	19	26			
Iraq:																	
Baghdad.....	8	14	12	1	2								1	2	1	1	
Plague-infected rats.....	7	5	2														
Diyalah Liwa.....	7	12	1	1													
Nauham.....		7															
Italy: Naples Province.....				1													
Plague-infected rats.....																	
Japan: Osaka—Plague-infected rats.....		2															
Madagascar (see also table below):																	
Tamatave.....		P	2	5					2	2		2					
Morocco.....																	
Plague-infected rats.....	31	42	16	39	4	1											P
Nigeria: Lagos.....	16	4	6	17													
Plague-infected rats.....	8	5	2	1	9	2	4	0	5	7	5						
Peru (see table below).	8	4	1	1	8	2	4	0	5	7	5						
Senegal (see table below).	6	8	4	13	16		8										
Siam.....																	
Plague-infected rats.....	10	9	1	4	3	2	1	1				P					
Bangkok.....	8	5	1	3	2	1											
Nagara Pathom.....		2	1	1	3		1										
Plague-infected rats.....		3															
Straits Settlements: Singapore.....	2	2															
Tunisia:	1	1															
Tunis.....	1	1															
Plague-infected rats.....			P	P			4	2				25					
Turkey:																	
Adalia.....																	
Constantinople.....			P	2	1			4									

Union of Socialist Soviet Republics:

Place	April, 1929	May, 1929	June, 1929	July, 1929	Aug., 1929	Sep-tem-ber, 1929	Place	April, 1929	May, 1929	June, 1929	July, 1929	Aug., 1929	Sep-tem-ber, 1929
Caucasia.....													
Ural-Kirghiz.....													
Union of South Africa:													
Cape Province.....													
Orange Free State.....													
On vessel:													
S. S. Chaban, at Port Said, from Jaffa.....													
S. S. Tokio, at Shanghai, from Singapore.....													
S. S. Ganzen Maru, at Osaka, from Haiphong.....													
Steamship at Porto Novo from Lagos.....													
S. S. Selo Maru, at Osaka, from Bombay—Plague-infected rats.....													
S. S. Soudades, at Hamburg, from Rosario, Argentina—Plague-infected rats.....													
S. S. Sumatra, at Osaka, from Bombay.....													
British East Africa (see also table above):													
Kenya.....													
Uganda.....													
Ecuador: Guayaquil.....													
Plague-infected rats.....													
Greece (see also table above).....													
Indo-China (see also table above).....													
Madagascar (see also table above).....													
Amboitra Province.....													
Antsirabe Province.....													
Itasy Province.....													
Moramanga Province.....													
Tananarive Province.....													

! Incomplete reports.

SMALLPOX

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

[illegible]

SMALLPOX—Continued

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

[illegible]

Madras.....	327	174	88	122	89	10	14	16	33	22	28	
Moulmein.....	84	61	20	32	22	2	4	7	7	2	3	
Nagpetam.....	6	6	6	6	11	2	1	2		2	1	
Nagpetam.....	6	6	6	6	6	1	1	1		1		
Rangoon.....	7	2	6	4	1	1	1	1				
Rangoon.....	7	1		3	1							
Tuticorin.....	3	1		1								
Vinagapetam.....	1		1	3			1					
Vinagapetam.....	28	2	2	2	1		1					
India (French):												
Karikal.....	2	8	5	1	12		8	2	4			
Pondicherry Province.....	2	3	5	1	2		7	2	4			
India (Portuguese)	60	32	18	21	12	2	2	2	3	3		
Indo-China (see also table below):	51	30	15	16	7	2	2	2	2	2		
Pnompenh.....		3	9	4				1		1		
India (Portuguese)	40	22	8	9	8	1					1	
Indo-China (see also table below):	24	12	2	3	3	1						
Salgon and Obolom.....	2	1	1	1								
Salgon and Obolom.....		1										
Iraq:												
Baghdad.....	6	3	1	1								8
Basra.....	6	6	9	1								
Basra.....	6	6	1									
Diyalah Liwa.....		48		8	13				4			
Kirkuk Liwa.....		13		2	12					16		
Kirkuk Liwa.....									21			
Mosoul.....			20	12	81	35	7	18	8		24	75
Mosoul.....					13	12		5			6	33
Ivory Coast (see table below)												
Jamaica (outside Kingston) (alastim)												
Japan:												
Osaka.....	1	1	1	7								
Osaka.....		12	2									
Shimane Province.....	3											
Tokyo.....	2		1									
Macao.....	20	5	2									
Mexico:												
Acapulco.....	1	1	2	8	4	1						
Agua Calientes.....	1	1	2	3	4	1						
Coahuila.....	9	6	17	11	7	3	1	2		3	2	1
Jalisco (State): Guadalaajara.....												
Juarez.....	12	15	11	6	5	5	1	2		1	1	1
Mexico City and surrounding territory.....												
Mexico City and surrounding territory.....		1	9	13	21	1	2	2	3	3	1	3
Mexico City and surrounding territory.....		21	10	3	6		1			2	2	
Morocco (see table below).												
Netherlands: Rotterdam.....				40	141	33	31	21	25	13	9	4
Netherlands: Rotterdam.....					1		4	2	1	4		1

[illegible]

(C indicates cases; D, deaths; P, present)

[illegible]

Place	March, 1929	April, 1929	May, 1929	June, 1929	July, 1929	August, 1929	Place	March, 1929	April, 1929	May, 1929	June, 1929	July, 1929	August, 1929
Kerry County—													
Dingle.....													
Killarney.....													
Tyrone County—Strabane. ¹													
Latvia (see table below).													
Lithuania (see table below).													
Mexico:													
Agua Calientes.....													
Mexico City, including municipalities in Federal District.....													
Morocco.....													
Norway: Oslo.....													
Palestine.....													
Persia.....													
Poland.....													
Portugal:													
Lisbon.....													
Oporto.....													
Rumania.....													
Tunisia.....													
Turkey (see table below).													
Union of South Africa:													
Cape Province.....													
Natal.....													
Orange Free State.....													
Transvaal.....													
Yugoslavia (see table below).													
Canada: Ontario.....													
Chosen.....													
Seoul.....													
Czechoslovakia.....													
Greece: Athens.....													
Indo-China: Tonkin.....													

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

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

YELLOW FEVER

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

Place	Apr. 7- May 4, 1929	May 5- June 1, 1929	June 2-29, 1929	June 30- July 27, 1929	Week ended—													Nov. 2, 1929
					August, 1929						September, 1929				October, 1929			
					3	10	17	24	31	7	14	21	28	5	12	19	26	
Belgian Congo: Tumba.....	C	1																
Brazil:																		
Bahia.....	C			1														
Niteroy.....	C			1														
Para.....	C	2		1							1							
Porto Alegre.....	D	1		1														
Rio de Janeiro.....	C	180	70	7							1	1	0	0	0	0	0	0
	D	94	38	5														
Colombia:																		
Simacota.....	C			4														
Socorro.....	C			12														
Liberia: Monrovia.....	C	2		4														
	D			3														
On vessel:																		
S. S. Skogland, at Porto Alegre, from Rio de Janeiro.....	C	1																

1 Imported.

* From June 19 to July 8, 1929, 41 cases of yellow fever with 23 deaths were reported in Socorro, Colombia.

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