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United States Department of Agriculture,

BUREAU OF ANIMAL INDUSTRY.

DAIRY DIVISION.

OFFICIALS, ASSOCIATIONS, AND EDUCATIONAL INSTITUTIONS CON- NECTED WITH THE DAIRY INTERESTS OF THE UNITED STATES FOR THE YEAR 1900.

WASHINGTON, D. C., *February 24, 1900.*

In order to meet numerous inquiries made of this Department, as well as to show the extent to which the dairy interests of the United States are organized, some of the officials employed in connection with this industry, and the facilities offered for technical instruction, the accompanying lists have been prepared.

HENRY E. ALVORD,
Chief of Dairy Division.

Approved:

JAMES WILSON,
Secretary of Agriculture.

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UNITED STATES DEPARTMENT OF AGRICULTURE, 1900.

Secretary, JAMES WILSON.
Assistant Secretary, J. H. BRIGHAM.

Bureau of Animal Industry:
Chief, D. E. SALMON.
Assistant Chief, A. D. MELVIN.

Dairy Division:
Chief, HENRY E. ALVORD.
Assistant Chief, R. A. PEARSON.

STATE DAIRY OFFICIALS, 1900.

The State laws under which the dairy commissioners' and dairy and food commissioners' offices are created, and those especially relating to dairy matters, were compiled and published by the Dairy Division (Dairy, No. 21) in 1898. Many laws for the protection of dairy products, passed by State legislatures, are inoperative. In some cases courts have failed to sustain the statutes; in others the nonenforcement is due to neglect to provide the necessary special officers and funds. The cost of enforcing the laws referred to varies greatly in the different States. This information can not be exactly obtained, as it is the custom to make but one appropriation for dairy and other food work, and expenditures for the former are not kept separately. In some cases the amounts used in the interest of pure dairy products reach \$10,000 per year, and this amount is far exceeded in two or three States. The salary of the executive officer rarely exceeds \$2,000.

The following is a list of the commissioners and other principal officers:

- CALIFORNIA.** Agent and secretary of the State dairy bureau, William Vanderbilt, San Francisco. Assistant agent, William H. Saylor.
- COLORADO.** State dairy commissioner, T. L. Monson, Denver. Deputy commissioner, J. P. James.
- CONNECTICUT.** Dairy commissioner, J. B. Noble, Hartford. Deputy commissioner, R. O. Eaton.
- ILLINOIS.** State food commissioner, Alfred M. Jones, Room 1623, Manhattan Building, Chicago. Assistant commissioner, J. H. Monrad.
- INDIANA.** Secretary of the State board of health, J. N. Hurty, Indianapolis.
- IOWA.** Dairy commissioner, B. P. Norton, Des Moines.
- MASSACHUSETTS.** Executive officer of the State dairy bureau, James W. Stockwell, secretary of the State board of agriculture. Assistant executive officer, George M. Whitaker, Box 1332, Boston.
- MICHIGAN.** Dairy and food commissioner, Elliot O. Grosvenor, Lansing. Deputy commissioner, William H. Tunncliffe.
- MINNESOTA.** State dairy and food commissioner, J. M. Bowler, St. Paul. Assistant commissioner, B. D. White.
- NEBRASKA.** Food commissioner, the governor of the State. Deputy commissioner, F. B. Hibbard, Lincoln.
- NEW JERSEY.** State dairy commissioner, George W. MacGuire, Trenton.
- NEW YORK.** Commissioner of the department of agriculture (including dairy), Charles A. Wieting, Albany. Assistant commissioners, G. L. Flanders, Albany, F. J. H. Kracke, No. 317 Washington Market, New York City.
- NORTH DAKOTA.** Ex officio State dairy commissioner, the State commissioner of agriculture and labor. Assistant dairy and food commissioner, E. E. Kaufman, Fargo.
- OHIO.** Dairy and food commissioner, Joseph E. Blackburn, Columbus.
- OREGON.** Dairy and food commissioner, J. W. Bailey, Portland.
- PENNSYLVANIA.** Dairy and food commissioner of the department of agriculture, Levi Wells, Harrisburg.
- UTAH.** Dairy and food commissioner, H. J. Faust, jr., Salt Lake City.
- WASHINGTON.** State dairy and food commissioner, E. A. McDonald, Seattle.
- WISCONSIN.** Dairy and food commissioner, H. C. Adams, Madison. Assistant commissioner, C. W. Sweeting.

CANADA. Commissioner of the department of agriculture and dairying, James W. Robertson, Ottawa.

DAIRY ASSOCIATIONS, 1900.

The chief work of dairy associations is educational, but they also take an interest in all matters pertaining to the industry, especially legislation and the enforcement of dairy laws.

Most of the organizations named below publish the proceedings of their annual meetings. These are sometimes included with the reports of the State departments of agriculture, but are usually issued separately. It is now difficult to obtain full sets of reports of the older associations, which embrace much dairy information of a valuable and practical character. The same is true of reports of the American Dairymen's Association (1866-1880) and the Northwestern Dairymen's Association (1867-1888), which were disbanded when their field of operation had become occupied by the younger associations in the several States.

A considerable part of the expenses of holding conventions and publishing reports is met by membership fees which are generally \$1 per year, and special subscriptions of private individuals, firms, and towns where meetings are held; also by receipts from advertisements inserted in the official programs. But in some States the expenses are largely defrayed by annual grants by the legislatures. From this source the Minnesota Dairymen's Association and Wisconsin Dairymen's Association receive \$2,000 each. The Illinois State Dairymen's Association receives \$1,500, the Connecticut Dairymen's Association, and the associations in Vermont and Nebraska receive \$1,000 each; the New Hampshire Association receives \$500; the Wisconsin Cheese Makers' Association receives \$400; the Michigan Dairymen's Association receives \$300, and the expense of printing the annual reports; the Minnesota State Butter and Cheese Makers' Association receives about \$250, and the Georgia Association \$50. In Iowa the expense of printing and distributing the proceedings of the annual meetings of the State Dairy Association is borne by the State.

Prizes, consisting of money and articles useful in the dairy, are frequently offered by the supply trade and others for the best packages of butter and cheese exhibited at the meetings.

Following is a list of all dairy associations whose interests cover any considerable part of a State, or larger territory:

National Association of Dairy and Food Departments. Organized 1897. President, Levi Wells, Harrisburg, Pa. Secretary, J. B. Noble, Hartford, Conn. Annual meetings: Chicago, 1899; Milwaukee, 1900.

National Dairy Union. Organized 1894. President, W. D. Hoard, Fort Atkinson, Wis. Secretary, Charles Y. Knight, 188 S. Water street, Chicago, Ill. Annual meeting: Lincoln, February 22, 1900.

National Creamery Buttermakers' Association. Organized 1892. Membership 1,800. President, George E. Haskell, Lincoln, Nebr. Secretary, E. Sudendorf, Elgin, Ill. Annual meeting: Lincoln, Nebr., February 19-23, 1900.

New England Milk Producers' Union. Organized 1886. President, John C. Bartlett, New Market, N. H. Secretary, L. S. Hayward, Pomfret Center, Conn. Annual meetings: Boston, Mass., January 19, 1900; Boston, Mass., January, 1901.

Five States Milk Producers' Association. Organized 1898. Membership 9,476. President, Frank B. Aiken, Mecklenburg, N. Y. Secretary, H. T. Coon, Little York, N. Y. Annual meetings: Binghamton, N. Y., October 17, 1899; Binghamton, N. Y., October 16, 1900.

Columbia River Dairy Association. Organized 1898. President, W. J. Spillman, Pullman, Wash. Secretary, H. T. French, Moscow, Idaho. Annual meetings: Lagrande, Oreg., March, 1899; Moscow, Idaho, March, 1900.

ALABAMA. *Alabama Dairymen's Association.* Organized 1895. Membership 50. President, Isaac Ross, Opelika. Secretary, F. H. Bates, Hamburg. Annual meeting: Birmingham, November 8, 1899.

CALIFORNIA. *California Dairy Association.* Organized 1893.¹ President, W. Johnstone, Courtland. Secretary, Samuel E. Watson, 421 Market street, San Francisco. Annual meetings: Sacramento, September 11 and 12, 1899; (probably) Sacramento, September 11 and 12, 1900.

Dairymen's Association of Southern California. Organized 1894. Membership 125. President, C. H. Sessions, Los Angeles. Secretary, James R. Boal, 128 West Twenty-fifth street, Los Angeles. Annual meetings: Los Angeles, July 8, 1899; Los Angeles, July 14, 1900.

COLORADO. *State Dairymen's Association.* Organized 1893. President, E. J. White, Brighton. Secretary, A. M. Hunter, Boulder. Last annual meeting: Denver, January, 1897.

CONNECTICUT. *Connecticut Dairymen's Association.* Organized 1882.¹ Membership 170. President, J. B. Noble, East Windsor Hill. Secretary, George E. Manchester, Station A, Winsted. Annual meetings: Hartford, January 17 and 18, 1900; Hartford, January, 1901.

Connecticut Creamery Association. Organized 1890. Membership 25. President, John Thompson, Melrose. Secretary, Frank Avery, Manchester. General meetings: Hartford, January 10, 1900; Hartford, January 9, 1901.

¹Incorporated.

- GEORGIA. *Georgia Dairymen's Association*. Organized 1894. Membership 250. President, R. J. Redding, Experiment. Secretary, M. L. Duggan, Sparta. Annual meeting: Grantville, October 12 and 13, 1899.
- ILLINOIS. *Illinois State Dairymen's Association*. Organized 1874. President, George H. Gurler, Dekalb. Secretary, George Caven, 188 South Water street, Chicago. Annual meeting: Belvidere, January 9-11, 1900.
- Chicago Milk Shippers' Union*. Organized 1897.¹ Membership 3,900. President, Hiram Halcomb, Sycamore. Secretary, S. Hill, 94 La Salle street, Chicago. General meeting: Chicago, February 26, 1900.
- INDIANA. *Indiana State Dairy Association*. Organized 1891. Membership, 125. President, C. B. Benjamin, Le Roy. Secretary, H. E. Van Norman, Lafayette. Annual meeting: Cambridge City, December 7 and 8, 1899.
- IOWA. *Iowa State Dairy Association*. Organized 1876.¹ Membership, 375. President, W. K. Boardman, Nevada. Secretary, J. C. Daly, Charles City. Annual meetings: Mason City, November 15-17, 1899; Storm Lake, 1900.
- KANSAS. *Kansas State Dairy Association*. Organized 1886. Membership, 175. President, W. F. Jensen, Beloit. Secretary, A. L. Goble, Riley. Annual meeting: Manhattan, November 22-24, 1899.
- MAINE. *Maine Dairymen's Association*. Organized 1898.¹ Membership, 75. President, Rutillus Alden, Winthrop. Secretary, L. W. Dyer, Cumberland Center. Annual meeting: Lewiston, December 13, 1899.
- MASSACHUSETTS. *Massachusetts Creamery Association*. Organized 1895. Membership, 23. President, Charles M. Bull, Springfield. Secretary, A. W. Morse, Belcher-town. Annual meeting: Northampton, December 21 and 22, 1899.
- MICHIGAN. *Michigan Dairymen's Association*. Organized 1885.¹ Membership, 350. President, Fred. W. Warner, Farmington. Secretary, S. J. Wilson, Flint. Annual meetings: Detroit, February 6-8, 1900; Lansing, February, 1901.
- MINNESOTA. *Minnesota State Dairymen's Association*. Organized 1878.¹ Membership, 181. President, Even Evenson, Strout. Secretary, Robert Crickmore, Pratt. Annual meetings: Lesueur, December 12-14, 1899; —, December 11-13, 1900.
- Minnesota State Butter and Cheese Makers' Association*. Organized 1894.¹ Membership, 243. President, H. F. Sondergard, Litchfield. Secretary, J. K. Bennett, Clinton Falls. Annual meeting: Owatonna, November 8 and 9, 1899.
- MISSOURI. *Missouri Dairymen's Association*. Organized 1890. Membership, 85. President, Norman J. Colman, St. Louis. Secretary, Levi Chubbuck, 1214 Chemical building, St. Louis. Annual meeting: Holden, November 27-29, 1899.
- NEBRASKA. *Nebraska Dairymen's Association*. Organized 1885.¹ Membership, 156. President, J. J. King, Westpoint. Secretary, S. C. Bassett, Gibbon. Annual meetings: Lincoln, December 16, 1899; —, December 18-20, 1900.
- NEW HAMPSHIRE. *Granite State Dairymen's Association*. Organized 1884. Membership, 18. President, C. H. Waterhouse, Durham. Secretary, J. L. Gerrish, Contoocook. Annual meeting: Peterboro, December 6, 1899.
- NEW JERSEY. *New Jersey State Dairy Union*. Organized 1899. Membership, 77. President, Charles Wright, Columbus. Secretary, George L. Gillingham, Moorestown. Annual meeting: Trenton, January 18, 1900.
- NEW YORK. *New York State Dairymen's Association*. Organized 1877.¹ Membership, 167 (life). President, G. A. Smith, Frankfort. Secretary, W. W. Hall, Gouverneur. Annual meetings: Cortland, December 13-15, 1899; Watertown, December 12, 1900.
- NORTH CAROLINA. *North Carolina State Dairymen's Association*. Organized 1894.¹ Membership, 68. President, George F. Weston, Biltmore. Secretary, C. W. Gold, Wilson. Annual meetings: Raleigh, October 20, 1899; Raleigh, Wednesday of State Fair, 1900.
- NORTH DAKOTA. *North Dakota State Dairymen's Association*. Organized 1891. President, F. B. Power, Power. Secretary, E. E. Kaufman, Fargo. Last annual meeting: Oakes, June 9 and 10, 1898.

¹ Incorporated.

- OHIO.** *Ohio State Dairymen's Association.* Organized 1894. President, Dillwyn Stratton, Winona. Secretary, L. P. Bailey, Tacoma. Annual meeting: Columbus, February 13 and 14, 1900.
- Ohio Dairy Union.* Organized 1897. Membership, 250. President, E. F. Webster, Wellington. Secretary, F. A. Stranahan, 30 Huron street, Cleveland. Annual meeting: Cleveland, December 6, 1899.
- OREGON.** *Oregon Dairymen's Association.* Organized 1892. Membership, 43. President, Thomas Paulsen, Garden Home. Secretary, F. L. Kent, Corvallis. Annual meetings: Portland, March 10 and 11, 1899; Albany, February 12 and 13, 1900.
- PENNSYLVANIA.** *Pennsylvania State Dairy Association.* Organized 1871.¹ President, Archie Billings, Edinboro. Secretary, A. L. Wales, Corry. Last annual meeting: Corry, March 15-17, 1898.
- Pennsylvania Dairy Union.* Organized 1898. Membership, 250. President, A. L. Wales, Corry. Secretary, H. Hayward, State College. Annual meetings: Westchester, December 5 and 6, 1899; Corry, —, 1900.
- Creamery Association of Eastern Pennsylvania and Vicinity.* Reorganized 1896. Membership, 50. President, John I. Carter, Chatham. Secretary, George R. Meloney, 1937 Market street, Philadelphia. Annual meetings: Philadelphia, January 6, 1900; —, January 5, 1901.
- SOUTH DAKOTA.** *South Dakota Dairy and Buttermakers' Association.* Organized 1890. President, Leland Griffin, Desmet. Secretary, C. P. Sherwood, Desmet. Annual meeting: Mitchell, December 12-14, 1899.
- TENNESSEE.** *East Tennessee Dairy Association.* Organized 1895. Membership, 25. President, John Landstreet, jr., Greenville. Secretary, Paul F. Kefauver, Madisonville. Last annual meeting: Sweetwater, December 31, 1898.
- TEXAS.** *Dairymen's Association.* Organized 1898. President, J. H. Connell, College Station. Secretary, J. E. Maguire, Waco. Annual meeting: College Station, July, 1899.
- UTAH.** *Utah Dairymen's Association.* Organized 1894. Membership, 31. President, Lorenzo Hansen, Wellsville. Secretary, F. B. Linfield, Logan. Annual meeting: Salt Lake City, April 6-8, 1899.
- VERMONT.** *Vermont Dairymen's Association.* Organized 1870. President, M. A. Adams, Derby. Secretary, F. L. Davis, North Pomfret. Annual meetings: Brattleboro, January 9-11, 1900; (probably) Burlington, June, second week, 1901.
- WASHINGTON.** *Washington State Dairymen's Association.* Organized 1894. President, H. L. Blanchard, Chimacum. Secretary, D. S. Troy, Chimacum. Annual meetings: North Yakima, December 28-30, 1899; last week in December, 1900.
- WISCONSIN.** *Wisconsin Dairymen's Association.* Organized 1872. President, C. P. Goodrich, Fort Atkinson. Secretary, George W. Burchard, Fort Atkinson. Annual meetings: Watertown, February 16-18, 1900; Mondovi (probably), February 12-15, 1901.
- Wisconsin Cheese Makers' Association.* Organized 1893.¹ Membership, 127. President, W. C. Dickson, Madison. Secretary, U. S. Baer, Madison. Annual meeting: Madison, February 7-9, 1900.

¹ Incorporated.

DAIRY SCHOOLS, 1900.

In the prominent dairy States, and in several others, the State agricultural colleges conduct dairy schools in which they offer short courses in the different branches of dairying. Instruction continues a few weeks and is given by lectures, laboratory practice, and work in the dairy. It includes the principles of breeding and feeding dairy cattle, practical exercises in testing milk, and the manufacture and care of dairy products; in some cases, also, the pasteurization of milk and a brief study of dairy bacteriology. There are few entrance requirements.

All of the instruction given in the short courses is offered to students taking the full college courses in agriculture, and these have opportunity to pursue advanced work and to specialize along lines in which they are most interested.

As a rule all the work in the creamery and cheese factory short courses bears directly upon these industries, while in the farm dairy courses subjects less closely related to dairying are usually taken.

The kinds of short courses offered, the seasons at which given, and the addresses of persons from whom full particulars can be obtained are stated below. In some of the States not named the regular college courses in agriculture include instructions in dairying, and in these cases arrangements can usually be made to take lectures and laboratory work and, at times, practical work along dairy lines, by corresponding with the professors of agriculture at the State agricultural colleges. Unless otherwise stated the institutions referred to are the State agricultural colleges.

- ALABAMA. (Tuskegee Normal and Industrial Institute.) Creamery, cheese factory, and farm dairy, by special arrangement.
Prof. George W. Carver, Tuskegee.
- COLORADO. Farm dairy, fall and spring.
Prof. W. W. Cooke, Fort Collins.
- CONNECTICUT. Creamery and farm dairy, winter.
Prof. C. L. Beach, Storrs.
- FLORIDA. (State Normal and Industrial College.) Butter making, fall, winter, and spring.
Mrs. T. de S. Tucker, Tallahassee.
- GEORGIA. Creamery and farm dairy, by special arrangement.
Prof. H. J. Wing, Experiment.
- IDAHO. Creamery and farm dairy, winter.
Prof. H. T. French, Moscow.
- ILLINOIS. Farm dairy, winter.
Prof. E. Davenport, Urbana.
- INDIANA. Farm dairy, winter.
Prof. C. S. Plumb, Lafayette.
- IOWA. Creamery, winter, and by special arrangement; cheese factory, fall; farm dairy, spring.
Prof. C. F. Curtiss, Ames.
- KANSAS. Creamery, cheese factory, and farm dairy, winter.
Prof. H. M. Cottrell, Manhattan.
- LOUISIANA. (Southern University and Agricultural and Mechanical College.) Farm dairy, winter and spring.
Prof. Chas. E. Roos, New Orleans.
- MAINE. Farm dairy, winter.
Prof. G. M. Gowell, Orono.
- MARYLAND. Creamery, by special arrangement; farm dairy, winter.
Prof. H. J. Patterson, College Park.
- MASSACHUSETTS. Creamery and farm dairy, winter.
Prof. Wm. P. Brooks, Amherst.
- MICHIGAN. Creamery, cheese factory, and farm dairy, winter.
Prof. Clinton D. Smith, Agricultural College.
- MINNESOTA. Creamery and cheese factory (including fancy cheese), winter; farm dairy, fall and winter.
Prof. T. L. Haecker, St. Anthony Park.
- MISSISSIPPI. Farm dairy, by special arrangement.
Prof. W. L. Hutchinson, Agricultural College.
- MISSOURI. Farm dairy, spring.
Prof. H. J. Waters, Columbia.
- NEBRASKA. Farm dairy, winter.
Prof. T. L. Lyon, University of Nebraska, Lincoln.
- NEW HAMPSHIRE. Creamery and farm dairy, winter.
Prof. Charles W. Burkett, Durham.
- NEW YORK. Creamery and cheese factory, winter; farm dairy, fall and winter.
Prof. I. P. Roberts, Ithaca.

- NORTH CAROLINA.** Farm dairy, winter.
Prof. C. W. Gold, Wilson.
- NORTH DAKOTA.** Farm dairy, winter.
Prof. E. E. Kaufman, Agricultural College.
- OHIO.** Creamery, cheese factory and farm dairy, winter.
Prof. John W. Decker, Columbus.
- OKLAHOMA.** Farm dairy, winter.
Prof. J. Fields, Stillwater.
- OREGON.** Farm dairy, winter.
Prof. F. L. Kent, Corvallis.
- PENNSYLVANIA.** Creamery, winter.
Prof. H. Hayward, State College.
- SOUTH CAROLINA.** Farm dairy, winter.
Prof. C. M. Conner, Clemson College.
- SOUTH DAKOTA.** Creamery, winter; farm dairy, fall and winter.
Prof. A. H. Wheaton, Brookings.
- TENNESSEE.** Creamery, farm dairy, commercial milk dairying, winter.
Prof. A. M. Soule, Knoxville.
- TEXAS.** Creamery, cheese factory and farm dairy, winter, by special arrangement.
Prof. J. H. Connell, College Station.
- UTAH.** Creamery, cheese factory and farm dairy, winter, and by special arrangement.
Prof. F. B. Linfield, Logan.
- VERMONT.** Creamery, winter.
Prof. Joseph L. Hills, Burlington.
- VIRGINIA.** (Hampton Normal and Agricultural Institute.) Farm dairy, fall and winter, and by special arrangement.
Prof. C. L. Goodrich, Hampton.
- WASHINGTON.** Creamery and cheese factory, spring; farm dairy, fall.
Prof. W. J. Spillman, Pullman.
- WISCONSIN.** Creamery, cheese factory and farm dairy, winter.
Prof. E. H. Farrington, Madison.

OFFICIALS IN CHARGE OF MILK INSPECTION IN SOME OF THE LARGE CITIES, 1900.

The local boards of health or health officers are usually charged with the duty of supervising the sale of milk in cities and towns, and the supervision consists principally of occasional examinations to ascertain if the milk offered for sale complies with the required chemical standard. Sanitary regulations are enforced, in most cases, in dairies within city limits where such are allowed to exist, but beyond this little is done along sanitary lines except to stop the sale of milk from dairies whose product is supposed to be especially dangerous to the public health.

Milk dealers and peddlers are usually required to register with the milk inspector and in some cities to obtain a license from his office.

The officials in immediate charge of milk inspection in some of the large cities are as follows:

- ALLEGHENY, PA. Milk inspector, John Lippert.
 BALTIMORE, MD. In charge of milk inspection of health department, G. W. Lehman.
 BOSTON, MASS. Milk inspector, Charles Harrington.
 BUFFALO, N. Y. Milk inspector, Edward Clark.
 CHICAGO, ILL. Chief of milk division, department of health, Ernest B. Stuart.
 CINCINNATI, OHIO. Milk inspector, A. C. Busch.
 CLEVELAND, OHIO. Inspector of food, Charles H. Stone, jr.
 DENVER, COLO. Milk inspector, Henry Bottomley.
 DETROIT, MICH. Milk and food inspectors, E. H. Troy and Douglas Long.
 INDIANAPOLIS, IND. Milk inspector, H. W. Langenberg.
 JERSEY CITY, N. J. Dairy inspector, John F. Nagle.
 KANSAS CITY, MO. Milk inspector, W. J. Phillips.
 LOUISVILLE, KY. Health officer, M. K. Allen.
 MILWAUKEE, WIS. Milk inspector, Harry Kiehl.
 MINNEAPOLIS, MINN. Milk inspector, W. D. McCall.
 NEWARK, N. J. Milk inspector, William H. Lyle.
 NEW ORLEANS, LA. Milk samples are collected by the sanitary police of the board of health.
 NEW YORK. Borough of Manhattan, chief inspector of foods, Edward W. Martin;
 Borough of Brooklyn, chief inspector of foods, Henry V. Walker.
 OMAHA, NEBR. Milk inspector, E. K. Hutton.
 PHILADELPHIA, PA. Chief inspector of milk, William J. Byrnes.
 PITTSBURG, PA. Milk inspector, David Price.
 PROVIDENCE, R. I. Milk inspector, Walter J. Scott.
 ROCHESTER, N. Y. Meat and milk inspector, William O. Marshall.
 ST. LOUIS, MO. Milk inspector, Henry J. Helwig.
 ST. PAUL, MINN. In charge of milk inspection department, John Marti, second assistant commissioner of health.
 SAN FRANCISCO, CAL. Chief sanitary inspector, W. P. Chalmers.
 WASHINGTON, D. C. Health officer, William C. Woodward.

ASSOCIATIONS OF BREEDERS OF PURE-BRED DAIRY CATTLE, 1900.

The interests of the different breeds of dairy cattle are in charge of organizations of breeders which determine purity of breeding, verify pedigrees, register eligible animals, and publish herd books. Some of them record and publish sales and transfers, and attested records of dairy performances. They also establish standards of excellence. The details of the work are usually left to the secretary. The names of the various associations and the addresses of the secretaries are as follows:

AYRSHIRE BREEDERS' ASSOCIATION.

Secretary, C. M. Winslow, Brandon, Vt.

BROWN SWISS BREEDERS' ASSOCIATION.

Secretary, N. S. Fish, Groton, Conn.

AMERICAN DEVON CATTLE CLUB.

Secretary, L. P. Sisson, Newark, Ohio.

DUTCH BELTED CATTLE ASSOCIATION OF AMERICA.

Secretary H. B. Richards, Easton, Pa.

AMERICAN GUERNSEY CATTLE CLUB.

Secretary, Wm. H. Caldwell, Peterboro, N. H.

HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA.

Secretary, F. L. Houghton, Brattleboro, Vt.

AMERICAN JERSEY CATTLE CLUB.

Secretary, J. J. Hemmingway, No. 8 W. Seventeenth street, New York, N. Y.

AMERICAN POLLED DURHAM BREEDERS' ASSOCIATION.

Secretary, J. H. Miller, Mexico, Ind.

RED POLLED CATTLE CLUB OF AMERICA.

Secretary, J. McLain Smith, Dayton, Ohio.

AMERICAN SHORT HORN BREEDERS' ASSOCIATION.

Secretary, J. H. Pickrell, Springfield, Ill.

AMERICAN SIMMENTHAL HERD BOOK ASSOCIATION.

Secretary, John Mayer, No. 120 Broadway, New York, N. Y.

PUBLICATIONS OF THE DAIRY DIVISION.

The publications prepared under the supervision of the Dairy Division, Bureau of Animal Industry, are as follows:

Dairy Division

- Number.
1. Statistics of the Dairy. (B. A. I. Bulletin No. 11.) *Exhausted.*
14. The Manufacture and Consumption of Cheese. (In Yearbook of United States Department of Agriculture for 1895. Reprinted separate.)
2. List of State Dairy Commissioners and Associations of Dairymen in the United States and Canada for 1896. (B. A. I. Circular No. 10.) *Exhausted.*
3. How to Select Good Cheese. (B. A. I. Circular No. 11.)
4. Facts About Milk. (Farmers' Bulletin No. 42.)
5. Dairying in California. (B. A. I. Bulletin No. 14.)
6. The Cheese Industry in the State of New York. (B. A. I. Bulletin No. 15.)
7. The Dairy Industry in Nebraska, South Dakota, and North Dakota. (B. A. I. Bulletin No. 16.) *Exhausted.*
8. Dairy Schools. (B. A. I. Bulletin No. 17.)
9. Correspondence Defining "Filled Cheese." (B. A. I. Circular No. 16.) *Exhausted.*
10. Creameries: Organization, Equipment, and Management. (In report of the Bureau of Animal Industry for 1895-96. Reprinted separate.)
11. The Dairy Industry in Missouri and Kansas. (B. A. I. Bulletin No. 18.)
12. Care of Dairy Utensils. (In Yearbook of United States Department of Agriculture for 1896.)
13. List of Dairy Officials and Associations of Dairymen in the United States and Canada for 1897. (B. A. I. Circular No. 18.)
14. The Dairy Herd: Its Formation and Management. (Farmers' Bulletin No. 55.)
15. Butter Making on the Farm. (Farmers' Bulletin No. 57.)
16. Factory Cheese and How it is Made. Reprint from No. 6, above. (B. A. I. Circular No. 19.)
17. Care of Milk on the Farm. (Farmers' Bulletin No. 63.)
Fifty Dairy Rules contained in this bulletin are reprinted separate on stiff cards for posting in stables and dairy rooms.
18. Utilization of By-Products of the Dairy. (In Yearbook of United States Department of Agriculture for 1897. Reprinted separate.)
19. Milk Supply of Boston. (B. A. I. Bulletin No. 20.)
20. List of Dairy Officials and Associations of Dairymen in the United States and Canada for 1898. (B. A. I. Circular No. 22.)
21. National and State Dairy Laws. (In report of the Bureau of Animal Industry for 1897. Reprinted separate.)
22. Colored Spots in Cheese. (B. A. I. Circular No. 24.)
23. State Standards for Dairy Products, 1898. (B. A. I. Circular No. 25.)
24. Experimental Exports of Butter, 1897. (In Report of the Bureau of Animal Industry for 1898. Reprinted separate.)
25. Breeds of Dairy Cattle. (In Report of the Bureau of Animal Industry for 1898. Reprinted, slightly abridged, as Farmers' Bulletin No. 106.)
26. Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for 1899. (B. A. I. Circular No. 26.)
27. Scales of Points in Use in the United States for Judging the Dairy Breeds of Cattle. (In Report of the Bureau of Animal Industry for 1898. Reprinted separate as B. A. I. Circular No. 27.)
28. Notes upon Dairying in California and the Export of California Butter to the Orient. (B. A. I. Bulletin No. 24.)
29. Dairy Development in the United States. (In Yearbook of the United States Department of Agriculture for 1899.)
30. Experimental Exports of Dairy Products, 1898 and 1899. (In Report of the Bureau of Animal Industry for 1899.) *In preparation.*
31. Market Milk: A Plan for Its Improvement. *In preparation.*
32. Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for 1900. (B. A. I. Circular No. 29.)