

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



CIRCULAR No. 26.

(B. A. I. 124—DAIRY No. 26.)

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 1899.**

WASHINGTON, D. C., *March 1, 1899.*

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 and the officials employed in connection with this industry, the accompanying lists have been prepared.

HENRY E. ALVORD,
Chief of Dairy Division.

Approved:
 JAMES WILSON,
Secretary.

U. S. DEPARTMENT OF AGRICULTURE, 1899.

JAMES WILSON, Secretary of Agriculture.

J. H. BRIGHAM, Assistant Secretary.

D. E. SALMON, Chief of Bureau of Animal Industry.

A. D. MELVIN, Assistant Chief.

HENRY E. ALVORD, Chief of Dairy Division.

R. A. PEARSON, Assistant Chief.

STATE DAIRY OFFICIALS, 1899.

- CALIFORNIA. William Vanderbilt, 114 California Street, San Francisco,
Agent and Secretary, State Dairy Bureau.
- COLORADO. H. B. Cannon, Denver,
State Dairy Commissioner.
- CONNECTICUT. John B. Noble, Hartford,
Dairy Commissioner.
R. O. Eaton, Montowese, Deputy Commissioner.
- IOWA. B. P. Norton, Des Moines,
Dairy Commissioner.
- MASSACHUSETTS. Wm. R. Sessions, Boston, Sec'y Mass. State Board of Agric.,
Executive Officer ex-officio, State Dairy Bureau.
Geo. M. Whitaker, Boston, Assistant and Acting Executive Officer.
- MICHIGAN. Elliot O. Grosvenor, Lansing,
Dairy and Food Commissioner.
- MINNESOTA. J. M. Bowler, Capitol Building, St. Paul,
State Dairy and Food Commissioner.
B. D. White, Capitol Building, St. Paul, Assistant Commissioner.
- NEW JERSEY. Geo. W. MacGuire, Trenton,
Dairy Commissioner.
- NEW YORK. Charles A. Wieting, Albany,
Commissioner of Agriculture (including Dairy).
Geo. L. Flanders, Albany, Assistant Commissioner.
F. J. H. Kracke, New York City, Assistant Commissioner.
- NORTH DAKOTA. H. U. Thomas, Bismarck,
State Com'r of Agriculture and Labor and ex-officio State Dairy Com'r.
- OHIO. Joseph E. Blackburn, Columbus,
Dairy and Food Commissioner.
- OREGON. J. W. Bailey, Portland,
State Dairy and Food Commissioner.
- PENNSYLVANIA. Levi Wells, Harrisburg,
Dairy and Food Commissioner (of State Department of Agriculture).
- UTAH. H. J. Faust, Jr., 128 W. First South Street, Salt Lake City,
State Food and Dairy Commissioner.
- WASHINGTON. E. A. McDonald, Seattle,
State Dairy Commissioner.
- WISCONSIN. H. C. Adams, Madison,
Dairy and Food Commissioner.
W. W. Chadwick, Monroe, Assistant Commissioner.

NATIONAL ASSOCIATION OF DAIRY AND FOOD DEPARTMENTS. Organized 1897.
President, Joseph E. Blackburn, Columbus, Ohio.
Secretary, Elliot O. Grosvenor, Detroit, Michigan.
Ann'l meetings: Harrisburg, Pa., Oct. 18-21, '98. Denver, Colo., ———.

CANADA. James W. Robertson, Ottawa,
Commissioner of Agriculture and Dairying.

DAIRY ASSOCIATIONS, 1899.

- NATIONAL DAIRY UNION.** Organized 1894.
 President, W. D. Hoard, Fort Atkinson, Wis.
 Secretary, Charles Y. Knight, 188 S. Water Street, Chicago, Ill.
 Annual Meetings: Sioux Falls, S. Dak., Jan. 26, '99; Chicago, ———.
- NATIONAL CREAMERY BUTTERMAKERS' ASSOCIATION.** Organized 1891.
 President, W. K. Boardman, Nevada, Iowa.
 Secretary, E. Sudendorf, Elgin, Ill.
 Annual Meetings: Sioux Falls, S. Dak., Jan. 23-28, 1899; (Probably) Lincoln, Nebr., —, 1900.
- NEW ENGLAND MILK PRODUCERS' UNION.** Organized 1886.
 President, O. E. Patch, Concord, Mass.
 Secretary, F. L. Hayward, Pomfret, Conn.
 Annual Meeting: Boston, Mass., Jan. 18, 1899.
- FIVE STATES MILK PRODUCERS' ASSOCIATION.** Organized 1898.
 President, A. G. Loomis, Deposit, N. Y.
 Secretary, H. T. Coon, Little York, N. Y.
 Annual Meeting: Binghamton, N. Y., ———.
- COLUMBIA RIVER DAIRY ASSOCIATION.** Organized 1898.
 President, W. J. Spillman, Pullman, Washington.
 Secretary, Harrison Allen, Astoria, Oregon.
 Annual Meeting: Astoria, Oreg., July 19-22, 1898.
- ALABAMA.** *Alabama Dairymen's Association.* Organized 1895.
 President, Isaac Ross, Opelika.
 Secretary, F. H. Bates, Hamburg.
 Annual Meetings: Birmingham, Nov. 9, 1898; Montgomery, (Probably) Nov. 8, 1899.
- CALIFORNIA.** *California Dairy Association.* Organized 1893.*
 President, A. P. Martin, Petaluma.
 Secretary, Samuel E. Watson, 1808 Eagle Avenue, Alameda.
 Annual Meetings: San Francisco, Oct. 14 and 15, 1898; —, (Probably) Oct. 13 and 14, 1899.
Dairymen's Association of Southern California. Organized 1894.
 President, C. H. Sessions, 1330 Carroll ave., Los Angeles.
 Secretary, James R. Boal, Box 686, Los Angeles.
 Annual Meeting: Los Angeles, July 9, 1898; Los Angeles, July 8, 1899.
- COLORADO.** *State Dairymen's Association.* Organized 1893.
 President, E. J. White, Brighton.
 Secretary, A. M. Hunter, Boulder.
 Annual Meeting: Denver, Nov. —, 1898.
- CONNECTICUT.** *Connecticut Dairymen's Association.* Organized 1882.*
 President, J. B. Noble, East Windsor Hill.
 Secretary, F. H. Stadtmueller, Elmwood.
 Annual Meetings: Hartford, Jan. 18-20, 1899; (Probably) Hartford, Jan. —, 1900.
Connecticut Creamery Association. Organized 1890.
 President, E. A. Russell, Suffield.
 Secretary, Frank Avery, Wapping.
 General Meetings: Hartford, Jan. 13, 1899; Hartford, Jan. 10, 1900.
- GEORGIA.** *Georgia Dairymen's Association.* Organized 1894.
 President, R. J. Redding, Experiment.
 Secretary, M. L. Duggan, Sparta.
 Annual Meetings: Macon, Dec. 22 and 23, 1898; (Probably) Moreland, Nov. —, 1899.
- ILLINOIS.** *Illinois State Dairymen's Association.* Organized 1874.
 President, Geo. H. Gurler, Dekalb.
 Secretary, Geo. Caven, 188 S. Water St., Chicago.
 Annual Meeting: Galesburg, Jan. 10-12, 1899.
Chicago Milk Shippers' Union. Organized 1897.*
 President, Hiram Halcomb, Sycamore.
 Secretary, S. Hill, 94 La Salle St., Chicago.
 General Meeting: Chicago, Feb. 28, 1899.

* Incorporated.

- INDIANA. *Indiana State Dairy Association*. Organized 1891.
 President, J. J. W. Billingsley, Indianapolis.
 Secretary, H. E. Van Norman, Lafayette.
 Annual Meetings: Mooresville, Dec. 14 and 15, 1898; Cambridge City, Dec. 1, 1899.
- IOWA. *Iowa State Dairy Association*. Organized 1876.*
 President, W. K. Boardman, Nevada.
 Secretary, J. C. Daly, Charles City.
 Ann'l Meetings: Waterloo, Nov. 1-3, '98; Mason City, Nov. 15-17, '99.
- KANSAS. *Kansas State Dairy Association*. Organized 1886.
 President, F. S. Hurd, Meriden.
 Secretary, W. F. Jensen, Beloit.
 Annual Meeting: Topeka, Nov. 16-18, 1898.
- MAINE. *Maine Dairymen's Association*. Organized 1898.*
 President, Rutillus Alden, Winthrop.
 Secretary, L. W. Dyer, Cumberland Center.
 Annual Meeting: Bangor, Dec. 21, 1898.
- MASSACHUSETTS. *Massachusetts Creamery Association*. Organized 1895.
 President, C. M. Bull, Springfield.
 Secretary, A. W. Morse, Belchertown.
 Ann'l Meetings: Amherst, Feb. 23, 1898; Northampton, Feb. 7, 1900.
- MICHIGAN. *Michigan Dairymen's Association*. Organized 1885.*
 President, E. A. Haven, Bloomingdale.
 Secretary, S. J. Wilson, Flint.
 Annual Meetings: Grand Rapids, Feb. 1-3, 1899; ———, first week in Feb., 1900.
- MINNESOTA. *Minnesota State Dairymen's Association*. Organized 1878.*
 President, John Mathieson, Austin.
 Secretary, Robert Crickmore, Pratt.
 Annual Meetings: Austin, Dec. 13-15, 1898; ———, Dec. 12-14, 1899.
Minnesota State Butter and Cheese-Makers Association. Org. 1894.*
 President, H. F. Sondergard, Litchfield.
 Secretary, J. K. Bennett, Clinton Falls.
 Annual Meeting: Litchfield, Nov. 30 and Dec. 1, 1898.
- MISSOURI. *Missouri Dairymen's Association*. Organized 1890.
 President, Norman J. Colman, St. Louis.
 Secretary, Levi Chubbuck, Chemical Building, St. Louis.
 Annual Meeting: Brookfield, Jan. 17-19, 1899.
- NEBRASKA. *Nebraska Dairymen's Association*. Organized 1895.*
 President, J. J. King, West Point.
 Secretary, F. H. Vaughan, Fremont.
 Annual Meeting: Fremont, Dec. 20-22, 1898.
- NEW HAMPSHIRE. *Granite State Dairymen's Association*. Organized 1884.
 President, C. H. Waterhouse, Durham.
 Secretary, J. L. Gerrish, Contoocook.
 Annual Meeting: Durham, Dec. 14, 1898.
- NEW JERSEY. *New Jersey State Dairy Union*. Organized 1896.*
 President, John A. McBride, Deckertown.
 Secretary, Geo. Gillinghast, Trenton.
 Annual Meetings: Trenton, Jan. 13, '99; Trenton, (about) Jan. 16, '00.
- NEW YORK. *New York State Dairymen's Association*. Organized 1877.*
 President, S. Brown Richardson, Lowville.
 Secretary, W. W. Hall, Gouverneur.
 Annual Meetings: Gouverneur, Jan. 25 and 26, 1899; ———, Dec. 12-14, 1899.
- NORTH CAROLINA. *North Carolina State Dairymen's Association*. Org'd. 1894.*
 President, Dr. D. Reid Parker, Trinity.
 Secretary, F. E. Emery, West Raleigh.
 Annual Meetings: Raleigh, Oct. 26, 1898; Raleigh, Wednesday of State Fair week, 1899.

* Incorporated.

- NORTH DAKOTA.** *North Dakota State Dairymen's Association.* Organized 1891.
 President, J. B. Power, Power.
 Secretary, E. E. Kaufman, Fargo.
 Annual Meeting: Oakes, June 9 and 10, 1898.
- OHIO.** *Ohio State Dairymen's Association.* Organized 1894.
 President, D. A. Crouner, Mentor.
 Secretary, L. P. Bailey, Tacoma.
 Annual Meetings: Columbus, Feb. 14 and 15, 1899; Columbus, ———.
Ohio Dairy Union. Organized 1897.
 President, E. F. Webster, Wellington.
 Secretary, F. A. Stranahan, 30 Huron street, Cleveland.
 Annual Meetings: ———, first Tuesday in December.
- OREGON.** *Oregon Dairymen's Association.* Organized 1892.
 President, Thomas Paulsen, Garden Home.
 Secretary, F. L. Kent, Corvallis.
 Annual Meeting: Portland, March 10 and 11, 1899.
- PENNSYLVANIA.** *Pennsylvania State Dairy Association.* Organized 1871.*
 President, H. H. Russell, Belle Valley.
 Secretary, J. C. McClintock, Box 92, Meadville.
 Ann'l Meetings: Corry, Feb. 2 and 3, 1898; Corry, Mch. 14 and 15, '99.
Pennsylvania Dairy Union. Organized 1898.
 President, H. W. Comfort, Fallsington.
 Secretary, H. Hayward, State College.
 Annual Meeting: Williamsport, Dec. 12 and 13, 1898.
Creamery Association of Eastern Pennsylvania. Reorganized '96.
 President, John I. Carter, Chatham.
 Secretary, Geo. R. Meloney, 1937 Market Street, Philadelphia.
 Annual Meeting: Avondale, Jan. 7, 1899.
- SOUTH DAKOTA.** *South Dakota Dairy Association.* Organized 1890.
 President, A. H. Wheaton, Brookings.
 Secretary, C. P. Sherwood, Desmet.
 Annual Meeting: Sioux Falls, Dec. 7-9, 1898.
South Dakota State Buttermakers' Association. Org'd 1899.
 President, Leland Griffin, Desmet.
 Secretary, R. K. Emily, Mission Hill.
 Annual Meetings at same places and times as S. Dak. Dairy Asso'n.
- TENNESSEE.** *East Tennessee Dairy Association.* Organized 1895.
 President, John Landstreet, Jr., Greenville.
 Secretary, Paul F. Kefauver, Madisonville.
 Ann'l Meetings: Knoxville, May 17, 1898; Knoxville, May 16, 1899.
- TEXAS.** *Dairymen's Association.* Organized 1898.
 President, J. H. Connell, Bryan.
 Secretary, J. E. Maguire, Waco.
 Annual Meeting: College Station July 13-15, 1898.
- UTAH.** *Utah Dairymen's Association.* Organized 1894.
 President, Lorenzo Hansen, Wellsville.
 Secretary, F. B. Linfield, Logan.
 Ann'l Meetings: Logan, Mar. 5, 1898; Salt Lake City, Apr. 6 and 7, 1899.
- VERMONT.** *Vermont Dairymen's Association.* Organized 1870.*
 President, G. W. Pierce, Brattleboro.
 Secretary, F. L. Davis, North Pomfret.
 Annual Meeting: St. Johnsbury, Jan. 3-5, 1899.
Vermont Butter and Cheese Makers' Association. Org'd 1898.
 President, A. E. Adams, Derby.
 Secretary, Wm. Beach, Charlotte.
 Annual Meetings: St. Johnsbury, Jan. 4-8, 1899; (Probably) Brattleboro, ———.
- WASHINGTON.** *Washington State Dairymen's Association.* Organized 1894.
 President, H. L. Blanchard, Hadlock.
 Secretary, Fred. J. Cheal, North Yakima.
 Annual Meetings: Ellensburg, December 27-29, 1898; North Yakima, last week in Dec., 1899.

WISCONSIN. *Wisconsin Dairymen's Association*. Organized 1872.

President, H. C. Taylor, Orfordville.

Secretary, Geo. W. Burchard, Fort Atkinson.

Annual Meeting: Green Bay, Feb. 15-17, 1899.

Wisconsin Cheese Makers' Association. Organized 1893.*

President, Jno. A. Carswell, Lonerock.

Secretary, U. S. Baer, Room 4, Fairchild Block, Madison.

Annual Meetings: Madison, Feb. 1-3, 1899; Madison, Feb. —, 1900.

NOTE.—Most of the organizations named above 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 (1886-80) and the Northwestern Dairymen's Association (1867-83), 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 are met by membership fees and subscriptions of private individuals, firms, and towns where meetings are held. Prizes, consisting of money and articles useful in the dairy, are frequently offered by the supply trade for the best packages of butter and cheese exhibited at the meetings. 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 \$2,000.00 each; the Connecticut Dairymen's Association, Nebraska Dairymen's Association, and Vermont Dairymen's Association receive \$1,000.00 each; the Illinois State Dairymen's Association, Indiana State Dairymen's Association, and Granite State Dairymen's Association receive \$500.00 each; and the Minnesota State Butter and Cheese Makers' Association receives \$200.00; in Iowa the expense of printing and distributing the proceedings of the annual meetings of the State Dairy Association is borne by the State.

DAIRY SCHOOLS, 1899.

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 instruction 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.

ALABAMA. (Tuskegee Normal and Industrial Institute.) Creamery, cheese factory, and farm dairy, by special arrangement.

Prof. George W. Carver, Tuskegee, Ala.

COLORADO. Farm dairy, fall and spring.

Prof. W. W. Cooke, Fort Collins, Colo.

CONNECTICUT. Creamery and farm dairy, winter.

Prof. C. L. Beach, Storrs, Conn.

GEORGIA. Farm dairy, by special arrangement.

Prof. H. J. Wing, Experiment, Ga.

IDAHO. Creamery and farm dairy, winter.

Prof. H. T. French, Moscow, Idaho.

ILLINOIS. Farm dairy, winter.

Prof. E. Davenport, Urbana, Ill.

INDIANA. Farm dairy, winter.

Prof. W. C. Latta, Lafayette, Ind.

* Incorporated.

- IOWA. Creamery, winter and by special arrangement; cheese factory, fall; farm dairy, spring.
Prof. C. F. Curtiss, Ames, Iowa.
- KANSAS. Creamery, cheese factory and farm dairy, winter.
Pres. Thos. E. Will, Manhattan, Kan.
- MAINE. Farm dairy, winter.
Prof. G. M. Gowell, Orono, Me.
- MARYLAND. Creamery, by special arrangement; farm dairy, winter.
Prof. H. J. Patterson, College Park, Md.
- MASSACHUSETTS. Creamery and farm dairy, winter.
Prof. Wm. P. Brooks, Amherst, Mass.
- MICHIGAN. Creamery, cheese factory and farm dairy, winter.
Prof. Clinton D. Smith, Agricultural College, Mich.
- MINNESOTA. Creamery and cheese factory (including fancy cheese), winter; farm dairy, fall and winter.
Prof. T. L. Haecker, St. Anthony Park, Minn.
- MISSISSIPPI. Farm dairy, by special arrangement.
Prof. W. L. Hutchinson, Agricultural College, Miss.
- MISSOURI. Farm dairy, spring.
Prof. H. J. Waters, Columbia, Mo.
- NEBRASKA. Farm dairy, winter.
Prof. T. L. Lyon, University of Nebraska, Lincoln, Neb.
- NEW HAMPSHIRE. Creamery and farm dairy, winter.
Pres. C. S. Murkland, Durham, N. H.
- NEW YORK. Creamery and cheese factory, winter; farm dairy, fall and winter.
Prof. I. P. Roberts, Ithaca, N. Y.
- NORTH CAROLINA. Farm dairy, winter.
Prof. Frank E. Emery, West Raleigh, N. C.
- NORTH DAKOTA. Farm dairy, winter.
Prof. E. E. Kaufman, Agricultural College, N. Dak.
- OHIO. Creamery, cheese factory and farm dairy, winter.
Prof. Thomas F. Hunt, Columbus, Ohio.
- OREGON. Farm dairy, winter.
Prof. F. L. Kent, Corvallis, Oreg.
- PENNSYLVANIA. Creamery, cheese factory and farm dairy, winter.
Prof. H. Hayward, State College, Pa.
- SOUTH DAKOTA. Creamery, winter; farm dairy, fall and winter.
Prof. E. A. Burnett, Brookings, S. Dak.
- TEXAS. Creamery, cheese factory and farm dairy, winter.
Prof. J. H. Connell, College Station, Tex.
- UTAH. Creamery, cheese factory and farm dairy, winter.
Prof. F. B. Linfield, Logan, Utah.
- VERMONT. Creamery, winter.
Prof. Joseph L. Hills, Burlington, Vt.
- VIRGINIA. (Hampton Normal and Agricultural Institute.) Farm dairy, spring of 1899, winter thereafter.
Prof. C. L. Goodrich, Hampton, Va.
- WASHINGTON. Creamery and cheese factory, spring; farm dairy, fall.
Prof. W. J. Spillman, Pullman, Wash.
- WISCONSIN. Creamery, winter and by special arrangement; cheese factory and farm dairy, winter.
Prof. E. H. Farrington, Madison, Wis.

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.*
- 1½. 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.)
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. Cir. 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.) *In press.*
25. *In preparation.*
26. Officials, Associations, and Educational Institutions Connected with the Dairy Interests of the United States for the Year 1899. (B. A. I. Circular No. 26.)