

State of Iowa
1925

Thirty-ninth Annual Report
Dairy and Food Division
OF THE
Iowa Department of Agriculture

For the Year Ending December 31, 1925

Reprinted from the
Twenty-Sixth Annual Year Book
of Agriculture

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Iowa Department of Agriculture
Des Moines, Iowa

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Des Moines

State of Iowa
1925

Thirty-ninth Annual Report
Dairy and Food Division

LETTER OF TRANSMITTAL

HON. JOHN HAMMILL, *Governor:*

Sir: I have the honor to transmit herewith the Thirty-ninth Annual Report of the Dairy and Food Division of this department for the year ending December 31, 1925, as a part of the twenty-sixth Iowa Year Book of Agriculture.

M. G. THORNBURG,

Secretary, Iowa Department of Agriculture.

Des Moines, January 1, 1926.



"AND IT IS TOO PLAIN FOR ARGUMENT THAT A
MANUFACTURER OR A VENDOR HAS NO CONSTITUTIONAL
RIGHT TO SELL GOODS WITHOUT GIVING TO THE
PURCHASER FAIR INFORMATION OF WHAT IT IS THAT
IS BEING SOLD."

What the U. S. Supreme Court said in Corn Products Refining vs. Eddy
et al., April 14, 1919.

DEPARTMENT OF AGRICULTURE

Des Moines, Iowa

M. G. THORNBURG,
Secretary

C. N. KENNEDY,
Assistant Secretary

OFFICERS AND EMPLOYEES OF THE DAIRY AND FOOD DIVISION

Chief	R. G. Clark.....	Des Moines
Chief of Inspectors.....	M. E. McMurray.....	Des Moines
Chief Chemist	E. L. Redfern.....	Des Moines
Assistant Chemist	W. G. Jordan.....	Des Moines
Chief Record Clerk.....	C. S. Bogle.....	Des Moines
Chief Clerk	A. W. Day.....	Des Moines
License Clerk	R. V. Barker.....	Des Moines
State Inspector.....	J. B. Frisbie.....	Sheldon
State Inspector.....	F. L. Odell.....	Sioux Rapids
State Inspector.....	T. A. Clarke.....	West Bend
State Inspector.....	Guy Thomas.....	Clear Lake
State Inspector.....	Roy Scoles.....	Nashua
State Inspector.....	C. N. Hart.....	McGregor
State Inspector.....	D. T. Broers.....	Dyersville
State Inspector.....	G. H. Guthrie.....	Davenport
State Inspector.....	F. D. Payn.....	Muscatine
State Inspector.....	Burr Willits.....	Burlington
State Inspector.....	A. A. Nolte.....	Ottumwa
State Inspector.....	L. E. Utterback.....	Centerville
State Inspector.....	J. W. Milnes.....	Creston
State Inspector.....	R. E. Long.....	Shenandoah
State Inspector.....	S. S. Rygh.....	Council Bluffs
State Inspector.....	W. A. Carrier.....	Sioux City
State Inspector.....	B. F. Schultz.....	Sac City
State Inspector.....	Frank Johnson.....	Fort Dodge
State Inspector.....	J. D. Fiete.....	Iowa Falls
State Inspector.....	A. L. Landis.....	Waterloo
State Inspector.....	F. W. Stephenson.....	Oswego
State Inspector.....	W. W. Newland.....	Cedar Rapids
State Inspector.....	O. P. Thompson.....	Iowa City
State Inspector.....	A. E. Robertson.....	Oskaloosa
State Inspector.....	B. O. Brownlee.....	Atlantic
State Inspector.....	E. E. Mittlestadt.....	Carroll
State Inspector.....	S. H. Oatman.....	Boone
State Inspector.....	Fred Susie.....	Marshalltown
State Inspector.....	H. E. Ritter.....	Des Moines
State Inspector.....	H. W. McElroy.....	Des Moines
State Inspector.....	Peter White.....	Atlantic
Heavy Scale Inspector.....	E. J. Nolan.....	Des Moines
Heavy Scale Inspector.....	A. B. Briggs.....	Ottumwa
Assistant Record Clerk.....	Agnes L. Hermansen.....	Des Moines
Stenographer	Evelyn Rees.....	Des Moines
Stenographer	Anna Murphy.....	Des Moines
Stenographer	Mildred Lidell.....	Des Moines
Janitor	W. W. Shaffer.....	Des Moines

REPORT OF DAIRY AND FOOD DIVISION

FOREWORD

We herein present to the public the Thirty-ninth Annual Report, of what was for twenty-eight years the Dairy Commission, for eight years the Dairy and Food Commission and for the last three years the Dairy and Food Division of the Iowa Department of Agriculture. There is a feeling of satisfaction that pervades all, from the Secretary of Agriculture down through the Division Heads, Office Force and out through the men in the field, for what has been accomplished during 1925; in the amount and quality of work done, as well as the apparent appreciation by the public of the service rendered. In the following pages one will find mention of all the activities of the division, and in practically all of them the records will show an increased interest and improvement.

Iowa's Department of Agriculture is now beyond the experimental stage, and has justified the legislature that made it an integral part of our state government. All the departments brought together in its formation have had their efficiency and usefulness increased by the consolidation, particularly the Dairy and Food Division.

DAIRYING

"Slow but sure" is perhaps the best way to express the progress Dairying is making in Iowa. Each year there is a little more creamery butter made, and each year more of our farmers are becoming converted to the idea that a good dairy cow is a necessary adjunct to almost any form of farming. We said it last year and the year before and we shall continue to say it next year, that "It is not more cows, but better cows" that will help put our farms on a paying basis without decreasing land values. The day has passed for "making money as Dad did on low priced land." The day of cheap land is over. Any change in land values from now on will be up instead of down, and the farsighted farmer is preparing for this added value to his investment by increasing his revenue through the cream check and egg money. Even four or five of the right kind of cows properly rationed

DAIRY COMMISSIONERS

NAME	County From Which Chosen	Appointment	Years Served
Henry D. Sherman.....	Jones	May 1, 1886	1886-1890
Augustus C. Tupper.....	Mitchell	May 1, 1890	1890-1894
William K. Boardman.....	Story	May 1, 1894	1894-1898
*Levi S. Gates.....	Delaware	May 1, 1898	1898-1899
Byron P. Norton.....	Howard	Nov. 8, 1898	1898-1902
Herbert R. Wright.....	Polk	May 1, 1902	1902-1906

*Died October 11, 1898. Byron P. Norton appointed to fill vacancy.

Note: Name of Office changed by Act of Thirty-first General Assembly to Dairy and Food Commission.

DAIRY AND FOOD COMMISSIONERS

Herbert R. Wright.....	Polk	July 1, 1906	1906-1910
William B. Barney.....	Franklin	May 1, 1910	1910-1922
Russell G. Clark.....	Hamilton	May 1, 1922	1922-1923

CHIEF DAIRY AND FOOD DIVISION

Russell G. Clark.....	Hamilton	July 1, 1923	1923-
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LAWS ENFORCED BY THE DEPARTMENT

Dairy Law	Turpentine Law
Pure Food Law	Weights and Measures Law
Agricultural Seed Law	Sanitary Law
Concentrated Feeding Stuffs Law	Cold Storage Law
Stock Tonic Law	Commercial Fertilizer Law
Paint and Linseed Oil Law	Mattress and Comfort Law
Insecticide and Fungicide Law	Egg Law
Restaurant Law	Hotel and Rooming House Law
Oil Inspection Law	Iowa Butter Mark Law
Container Law	Rendering Plant Law

are of inestimable value in taking care of the family's needs, without piling up an indebtedness against stock and crop sales later on.

Last year we called attention to the fact that 51 percent of our creameries are located in 21 counties. Also that these 21 counties produce 90 per cent as much corn, 90 per cent as many swine, 90 per cent more oats, 22 per cent more poultry and 23 per cent more eggs than the 21 counties having the least number of creameries (16 creameries). This was in 1923. In 1924 our corn crop was not so large, and we find the 21 counties with 52 per cent of the creameries, had 98 per cent as much corn, 91 per cent as many swine and twice as many oats, as in the 21 counties with only 14 creameries. These figures are given to justify the statement that dairying can add to a farmer's income, without lessening his receipts from other sources.

Our breeders are taking better care of the increase in our dairy herds, as is shown by the decrease in number shipped into the State from Wisconsin and Minnesota in 1925. We received 7,600 head of dairy cattle from Wisconsin and 8,284 head from Minnesota, a total of 15,884 head against 25,264 head in 1923. Iowa should be self sustaining so far as her dairy cattle are concerned, and no doubt will be before long.

1925 was a good year for the man who milked cows. We here give the comparative prices of extras on the New York market for the last six years.

Average Price	Average Price	Average Price
1920—First 6 mos. 64.90c	Last 6 mos. 58.26c	12 mos. 61.44c
1921—First 6 mos. 42.92c	Last 6 mos. 45.28c	12 mos. 43.25c
1922—First 6 mos. 37.22c	Last 6 mos. 43.89c	12 mos. 40.59c
1923—First 6 mos. 46.27c	Last 6 mos. 47.31c	12 mos. 46.79c
1924—First 6 mos. 44.80c	Last 6 mos. 40.43c	12 mos. 42.61c
1925—First 6 mos. 42.94c	Last 6 mos. 47.50c	12 mos. 45.22c

Each year our larger cities are being forced to reach out farther for their sweet cream, and this last year Iowa was invaded to the extent that some 12,000,000 pounds of butterfat were shipped out of the state in the form of cream. This is about as profitable a way as any at present for selling milk-fat, and our dairymen must not be indifferent to this opportunity. Chicago alone will be a good outlet for such counties as can furnish cream from accredited herds, if she, Chicago, carries out her plan of having her milk and cream come only from tuberculous tested cows. Iowa is the foremost state in the eradication of tuber-

culosis from her breeding cattle, we therefore, should be in good shape to supply any increasing demands for milk or cream from the outside. The railroads are becoming better prepared to furnish adequate refrigeration for this class of freight. We therefore, feel this form of dairy marketing will grow and take care of any surplus our increasing interest in dairying may make.

Farm or dairy butter continues to be made to the extent that we credit Iowa with producing some 26,000,000 pounds last year. Most of this was consumed on the farm, although dairy butter can be had in many of our smaller towns, as the neighboring farmers continue to furnish the general store with farm made butter.

As shown by the following table, Iowa's consumption of creamery butter for last year was 28,508,348 pounds. This added to the dairy butter consumed, makes a total of approximately 54,000,000 pounds or a per capita consumption of 21.6 pounds.

CREAMERY BUTTER SOLD IN IOWA 1916-1925

1916	16,439,883 lbs.
1917	12,958,678 lbs.
1918	16,827,457 lbs.
1919	15,842,119 lbs.
1920	18,719,251 lbs.
1921	22,627,283 lbs.
1922	25,714,769 lbs.
1923	25,480,078 lbs.
1924	27,213,957 lbs.
1925	28,518,348 lbs.

Iowa's butter production continues to increase, as the yearly report of our creameries show a gain of 25,189,697 pounds over the previous year, which was 140,497,549 pounds or a gain of 17.9 per cent. This total of creamery butter added to the total dairy butter makes a production of 191,835,574 pounds for the year.

TOTAL VALUE OF DAIRY PRODUCTS FOR 1925

Creamery Butter	165,835,574 lbs.	\$66,334,150.66
Ice Cream	5,400,000 gals.	4,860,000.00
Sweet Cream	12,000,000 lbs. (40%)	2,640,000.00
Market Milk	900,000,000 lbs.	21,000,000.00
Cheese	900,000 lbs.	190,000.00
Cottage Cheese	2,100,000 lbs.	250,000.00
Farm Dairy Butter	26,000,000 lbs.	9,620,000.00
Condensed Milk	14,289,265 lbs.	1,081,823.54
Skim Milk and Butter Milk	4,460,400,000 lbs.	12,490,000.00
Calves	1,000,000 lbs.	3,000,000.00
Fertilizer	12,000,000 lbs.	12,000,000.00

\$133,465,974.20

Iowa's 1,300,000 milk cows produced last year not far from 6,000,000,000 pounds of fluid milk or an average of 4,500 pounds to the cow. The following table shows for what this milk was used:

Milk used in Creamery Butter	4,142,000,000 lbs.
Milk used in Sweet Cream	137,143,000 lbs.
Milk used in Ice Cream	84,000,000 lbs.
Milk used in Market Milk	900,000,000 lbs.
Milk used in Cheese	27,600,000 lbs.
Milk used in Farm Butter	650,000,000 lbs.
Milk used in Condensed Milk	28,289,000 lbs.

5,969,032,000 lbs.

The tendency toward the creamery and away from the farm in butter production continues as the following tables show:

BUTTER PRODUCTION IN THE UNITED STATES

	Farm Butter	Creamery Butter
1899	1,071,626,000 lbs.	420,127,000 lbs.
1909	994,761,000 lbs.	627,146,000 lbs.
1919	707,666,000 lbs.	873,907,000 lbs.
1923	610,000,000 lbs.	1,254,118,000 lbs.
1924	600,000,000 lbs.	1,356,080,000 lbs.

BUTTER PRODUCTION IN IOWA

	Farm Butter	Creamery Butter
1899	80,000,000 lbs.	87,972,470 lbs.
1924	25,000,000 lbs.	140,497,549 lbs.
1925	26,000,000 lbs.	165,835,374 lbs.

THE IOWA CREAMERY

The following tables will show that so far as the number goes our creameries have not increased much, there being only three more in 1925 than in 1924. The increase in production though was much more flattering, the unprecedented amount of 165,835,574 pounds being placed to their credit for 1925. That makes an increase of 25,330,901 pounds. This increase has not been excelled in any one year except in 1922 and then by only 96,769 pounds. Two-thirds of our creameries continue to be located in the northeast quarter of the state and it is to the buttermakers in those counties that Iowa owes her reputation as a producer of the best butter.

Bremer is our premier county in the number of creameries, there being twenty-two (22), all of which are co-operative except one individual owned creamery at Plainfield. Clayton County leads all others in butter made in one year by her creameries, from cream produced within the county. Woodbury County has

the unprecedented amount of 27,150,202 pounds of butter to her credit, made by her five creameries. This large make is due to the fact that four of the five creameries are centralizers and draw from a large territory. There are seven counties that have to depend largely on the cream station for a market for their cream, as they have no creameries within their borders.

The following table gives the number of cows and the amount of milk and cream it took to produce the 165,835,574 pounds of butter:

Milk received	208,872,014 lbs.
Cream received	453,437,707 lbs.
Pounds butter made	165,835,574 lbs.
Pounds sold to patrons	5,537,065 lbs.
Pounds sold in Iowa	22,981,283 lbs.
Pounds sold outside the state	134,404,012 lbs.
Total number of patrons	159,763
Total number cows of patrons	1,124,894
Yearly average of fat per cow	140 lbs.
(The fat used on the farm was added to get this average.)	

Of the one hundred and thirty odd million pounds of butter sent out of the state in 1925 it is estimated that it goes to the following cities in the proportion herein stated:

New York City	67,000,000 lbs. or about 50%
Chicago	33,000,000 lbs. or about 25%
Philadelphia	13,000,000 lbs. or about 9%
Boston	12,000,000 lbs. or about 9%
All other cities	10,000,000 lbs. or about 7%

This estimate is made up from the reports sent in by the creameries as to the number of pounds and where shipped outside the state. A summary of those reports is here given.

New York	44,849,716 lbs.
Chicago	12,571,390 lbs.
Philadelphia	1,163,687 lbs.
Boston	372,450 lbs.
Eastern	45,002,467 lbs.
Chicago and New York	12,571,390 lbs.
Chicago and Philadelphia	1,139,066 lbs.
Chicago and Boston	206,738 lbs.
Philadelphia and New York	3,442,422 lbs.
Boston and New York	2,492,924 lbs.
Chicago, Boston and New York	752,507 lbs.
Chicago, Philadelphia and New York	730,041 lbs.
Chicago, Buffalo and New York	652,890 lbs.
Chicago, Boston and Philadelphia	105,185 lbs.
Boston, New York, Chicago and Philadelphia	1,056,794 lbs.
Boston, Philadelphia and New York	1,007,799 lbs.
Detroit, Chicago, Philadelphia and New York	152,000 lbs.
Detroit, Chicago, Philadelphia and Boston	592,985 lbs.
Detroit, Chicago and New York	859,622 lbs.
Omaha, Philadelphia and New York	733,906 lbs.
New Jersey and New York	113,465 lbs.

Chicago and Eastern.....	892,401 lbs.
New Orleans	622,246 lbs.
Pittsburgh	238,000 lbs.
Buffalo	425,160 lbs.
Jersey City	605,295 lbs.
Providence	153,310 lbs.
Omaha	306,189 lbs.

134,312,015 lbs.

GROWTH OF CREAMERY INDUSTRY IN IOWA

Year	No. of Creameries	No. of Skim Stations	Central Churning Plants	No. Pounds Creamery Butter	Average New York Price	No. Cheese Factories	No. of Condenseries
1890	582	---	---	71,255,796	---	93	---
1891	705	---	---	68,690,716	---	111	---
1892	775	---	---	60,112,931	---	113	---
1893	790	---	---	54,572,902	.20	110	---
1894	806	10	---	54,500,417	.22	64	---
1895	774	32	---	60,497,106	.22	81	---
1896	741	49	---	80,022,919	.219	73	---
1897	795	90	---	88,900,000	.188	76	---
1898	811	143	---	87,704,214	.197	67	---
1899	779	188	---	87,972,470	.208	66	---
1900	797	167	---	84,965,062	.227	73	---
1901	759	161	---	83,706,944	.216	73	---
1902	752	168	---	77,885,606	.242	52	---
1903	592	109	---	64,503,970	.242	45	---
1904	599	106	---	70,000,000	.214	37	---
1905	573	82	---	82,707,588	.248	39	---
1906	548	48	20	91,262,354	.257	27	---
1907	510	84	75	91,164,383	.282	13	---
1908	514	86	82	101,532,063	.265	9	---
1909	524	19	96	101,907,316	.288	9	---
1910	485	9	86	92,911,000	.295	5	---
1911	498	1	33	96,095,084	.281	9	---
1912	504	6	36	91,738,573	.312	6	---
1913	518	---	36	96,968,183	.324	11	---
1914	500	---	45	92,865,921	.30	12	---
1915	467	---	45	89,534,005	.322	11	---
1916	443	---	41	97,628,788	.325	13	---
1917	451	---	43	94,309,685	42.7	24	---
1918	402	---	44	98,348,309	51.0	19	---
1919	398	---	45	90,915,938	60.3	20	---
1920	399	---	41	99,179,612	61.5	17	---
1921	414	---	40	98,740,419	43.4	10	---
1922	422	---	50	124,108,089	40.7	5	---
1923	429	---	50	132,878,353	46.8	5	---
1924	448	---	52	140,487,549	42.5	5	---
1925	445	---	52	150,504,574	45.2	9	---

BUTTER PRODUCTION FOR 1923

No. Creameries	Butter Made	Average Price
227 Co-operative creameries	50,772,138 lbs.	45.3 cents
158 Individual creameries	23,394,560 lbs.	40.2 cents
50 Centralizer creameries	58,711,855 lbs.	39.27 cents
435	132,878,353 lbs.	

BUTTER PRODUCTION FOR 1924

No. Creameries	Butter Made	Average Price
260 Co-operative creameries	64,372,217 lbs.	45.5 cents
130 Individual creameries	15,758,774 lbs.	43.8 cents
55 Centralizer creameries	60,373,682 lbs.	42.6 cents
445	140,504,673 lbs.	

BUTTER PRODUCTION FOR 1925

No. Creameries	Butter Made	Average Price
262 Co-operative creameries	74,152,506 lbs.	43.5 cents
131 Individual creameries	19,202,435 lbs.	40.2 cents
55 Centralizer creameries	72,480,663 lbs.	40.9 cents
448	165,835,574 lbs.	

IOWA BUTTERMILKERS CONTINUE TO MAKE GOOD

In our Annual Report of 1923, our heading was "Iowa Buttermilk makers make good." Last year it was "Iowa Buttermilk makers again make good." This year, as you see, it is "Iowa Buttermilk makers continue to make good." Our boys brought home from Portland, Oregon, five out of six medals. Silver and Bronze in the Fresh Butter contest, and Gold, Silver and Bronze in the Cold Storage contest. At the National Dairy Show at Indianapolis they fared better, taking both major prizes, Gold in both the Fresh Butter and the Cold Storage Butter contests. This of course, is very gratifying, not only to those interested in dairying but to all our people. The National Banner again comes to us. This is the fourth time that the final average of the ten high men by states, in the Fresh and Cold Storage contest, has rested with Iowa.

We here give the averages for the five states contesting at Portland, Oregon, with the list of the men who made the high average, as well as cuts of the men who won the five major prizes at Portland, and the two major prizes at Indianapolis:

At Indianapolis the Silver and Bronze Medals were awarded to the highest scoring entries from each state whose rating was not less than 93.

WHAT HAPPENED AT PORTLAND

National Banner Won by Iowa

Final average of ten high scores by states: Iowa, 94.793; Minnesota, 94.239; Wisconsin, 93.561; Oregon, 92.913; South Dakota, 92.571.

Individual Winners

FRESH BUTTER

Gold Medal, J. M. Rasmussen, St. Charles, Minn.....	96.00
Silver Medal, Frank T. Shipton, Alta Vista, Iowa.....	95.75
Bronze Medal, F. H. Harms, Oswein, Iowa.....	95.50

COLD STORAGE BUTTER

Gold Medal, L. E. Nelson, Randall, Iowa.....	95.50
Silver Medal, Phil J. Lussan, Festina, Iowa.....	95.25
Bronze Medal, Peter Refsdahl, Grafton, Iowa.....	95.00

FRESH BUTTER CONTEST

Frank T. Shipton, Alta Vista.....	95.75
F. H. Harms, Oelwein.....	95.50
Albert Harms, Westgate.....	95.25
F. P. Gernand, Volga City.....	95
Victor C. Anderson, Hanlontown.....	94.75
R. W. Chadwick, Waterloo.....	94.75
A. H. Bentz, Maynard.....	94.50
Frank Brunner, Colwell.....	94.50
E. A. Gudvangen, Hanlontown.....	94.50
H. C. Ladage, Tripoli.....	94.50
Phil J. Lussan, Festina.....	94.50
Paul Macauley, Burt.....	94.50
F. W. Nelson, Jericho.....	94.50
C. W. Rouse, Hopkinton.....	94.50
Average.....	94.90

Ten Highest Cold Storage Class—Iowa

IN STORAGE

F. P. Gernand, Volga City.....	95.50
Paul L. Smith, Rockwell.....	95.50
M. J. Mikkelsen, Plymouth.....	95
E. A. Gudvangen, Hanlontown.....	94.75
Paul Macauley, Burt.....	95.75
Victor Anderson, Hanlontown.....	94.50
Frank Brunner, Colwell.....	94.50
Henry Hansen, Graettinger.....	94.50
Vern Sires, Postville.....	94.50
H. C. Stendal, Northwood.....	94.50
Chas. Zierath, Charles City.....	94.50
Average In.....	94.80

OUT OF STORAGE

L. E. Nelson, Randall.....	95.50
Phil J. Lussan, Festina.....	95.25
Peter J. Refsdahl, Grafton.....	95
Geo. Hauer, West Union.....	94.75
F. P. Gernand, Volga City.....	94.50
Soren Kristensen, Forest City.....	94.50
Selmer Nelson, Kensett.....	94.50
Elmer J. Primus, Fairbank.....	94.50
N. O. Dahlem, Hartland City.....	94.25
Will Dilley, Oran.....	94.25
Henry Hansen, Graettinger.....	94.25
O. J. Kloock, Whittemore.....	94.25
Tom D. May, Maquoketa.....	94.25
Average Out.....	94.68

WHAT HAPPENED AT INDIANAPOLIS

The gold medal award for the best cold storage butter at the National Dairy Exposition was won by an Iowa buttermaker for the second consecutive time. A score of 94.75 was given for the entry of Otto F. Weger of Strawberry Point, Iowa, the winner

IOWA MEDAL WINNERS IN NATIONAL CONTEST

Held at
PORTLAND, OREGON
September 15, 16, 17, 1925



Frank Shipton
Alta Vista, Iowa
Silver Medal
Score 95.75



F. H. Harms
Oelwein, Iowa
Bronze Medal
Score 95.50



L. E. Nelson
Randall, Iowa
Gold Medal
Score 95.50



Phil J. Lussan
Festina, Iowa
Silver Medal
Score 95.25



Peter Refsdahl
Grafton, Iowa
Bronze Medal
Score 95.00

Fresh
Butter
Contest

Storage
Butter
Contest

of this year's highest honor. Ninety-four entries from eleven states and Canada were made in this contest.

The silver medal for Iowa in the cold storage was awarded to the Exira Creamery Company, with a score of 94 $\frac{1}{4}$. The bronze medal for Iowa was awarded to the New Haven Creamery Company of Osage, with a score of 94.

The best tub of fresh butter at the 1925 National Dairy Exposition at Indianapolis, October 10 to 17, was made by F. H. Harms, of Oelwein, Iowa. A score of 95 made this tub the gold medal winner in this excellent exhibit. A total of 170 tubs from seventeen states and four Canadian provinces were in this contest.

The silver medal for Iowa in the fresh butter contest was awarded to Otto Kloock of Whittemore, with a score of 94 $\frac{3}{8}$. The bronze medal for Iowa was awarded to H. C. Stendal of Northwood, with a score of 94 $\frac{1}{4}$.

IOWA MEDAL WINNERS IN NATIONAL CONTEST

Held at
INDIANAPOLIS, INDIANA
December 10 to 17, 1925



F. H. Harms, Oelwein
Gold Medal, Score 95
Fresh Butter Contest
Indianapolis, Indiana
October 10-17, 1925



Otto F. Weger, Whittemore
Gold Medal, Score 94 $\frac{7}{8}$
Cold Storage Contest
Indianapolis, Indiana
October 10-17, 1925

THE STATE BUTTER MARK

The number of our State Brand Creameries is not increasing as it should. Two only were added in 1925. The difference in the price received by the patrons of the State Brand Creameries

and the average price of all other creameries this last year, was four (4) cents per pound of fat. A difference that ought to set the patrons of some of the creameries to thinking. The complaint, however, comes from the State Brand Creameries themselves. They feel that the State Brand on their butter does not bring the added price it should, and there is some truth to their contention. It is discouraging to find that a creamery, although it turns out butter of equal score, that does not qualify for the



Trade-Mark Adopted for First Quality
Iowa Butter



O. J. Kloock, Whittemore
Whittemore Farmers Creamery



W. A. Rizer, Alpha
Alpha Farmers Creamery Co.

State Brand, should be able to sell its product equally as well as the State Brand Creameries who have to live up to the rigid rules laid down by the state. There are instances of this being done. Representatives of the Agricultural Department, State College

at Ames, and the creameries themselves, have had the matter under discussion, and plans are being devised for organizing the State Brand Creameries so that they can act as a unit in some method of marketing. This is to include the standardizing of their butter by the Extension Department of Ames, and such assistance as our inspection service might give, guaranteeing the grade, etc. In light of what is being done with other well established food products by advertising and the right kind of salesmanship, it does seem as though a like advance in price could be obtained for State Brand Butter, if handled in a similar manner. Interest in this matter should be kept up, until some definite plan has been adopted and is being carried out. It should not be allowed to lag or die out. When the commercial value of our food trade-marks are placed well up in the millions, are we not overlooking an opportunity, when we permit our State Brand to be of so little value to those who work so hard to attain it?

The Whittemore Farmers Creamery of Whittemore, Kossuth County, of which O. J. Kloock is the buttermaker, and the Alpha Farmers Creamery Company, of which W. A. Rizer is the buttermaker, are the two creameries to qualify for the State Brand during the last year.

STATE BRAND CREAMERIES

Creamery and P. O. Address	Buttermaker	License No
Strawberry Point Co-op. Creamery, Strawberry Point	Otto F. Wegers	No. 1
Farmers Creamery Co., Manly	Ed. Anderson	No. 2
Algona Co-op. Creamery Co., Algona	M. P. Christiansen	No. 4
Hull Co-op. Creamery Co., Hull	O. W. Albright	No. 7
Center Valley Creamery Co., Sumner	R. J. Allenstine	No. 8
Lake Mills Creamery Co., Lake Mills	Carl Hoveland	No. 9
Tripoli Creamery Company, Tripoli	H. C. Ladage	No. 12
Farmers Co-op. Cry. Ass'n, Tenold	Elmer Anderson	No. 13
Denver Creamery Co., Denver	W. J. Spurbeck	No. 14
Klinger Creamery Company, Readlyn	Henry Segebath	No. 15
Readlyn Creamery Co., Readlyn	H. A. Griese	No. 16
Farmers Co-op. Creamery Co., Oelwein	F. H. Harms	No. 18
Siegel Creamery Co., Tripoli	E. H. Rohrsen	No. 19
Farmers Mutual Co-op. Cry. Co., Maynard	Glen Mittlestadt	No. 20
Lost Island Creamery Co., Graettinger	A. P. Anderson	No. 21
Plymouth Co-op. Creamery Co., Plymouth	M. Mikkelsen	No. 22
Farmers Butter & Cheese Ass'n, Northwood	H. C. Stendal	No. 23
Farmers Creamery Co., Grafton	Peter Refsdahl	No. 24
Fenton Co-op. Creamery, Fenton	Fred Kuecker	No. 25
Randall Mutual Creamery Co., Randall	L. H. Beach	No. 26
Whittemore Farmers Creamery, Whittemore	O. J. Kloock	No. 27
Alpha Farmers Creamery Co., Alpha	W. A. Rizer	No. 28

"One of the fundamental principles laid down and adhered to by the courts as to food regulation, is that the public, whatever may be its prejudice, its ignorance or its intelligence, has a right to be truthfully informed as to the character and constituent of the food it consumes."

J. Q. Emery,

Dairy Commissioner,
Wisconsin

SANITARY AND FOOD LAWS

Few laws put on our statute book come as near accomplishing the purpose for which they were written, as our food and sanitary laws. A wonderful change has taken place in the manner in which our food has been handled, since their enactment, a change that was made necessary by a new order in the preparing of much of our food. The housewife in her kitchen has not been immune from the encroachment of this new order. Big Business is no respecter of persons or occupation. It invades the home with utter indifference to any sentiment that may still linger in the minds of some, that certain foods belong to the home and kitchen only, in their preparation. Home-made pies are advertised in the street car side by side with the Arrow Collar, and both are guaranteed made from the best material. Machine-made doughnuts can be had that are a credit to the name. Bread-making will become a lost art, if the change from home-made to the baker's loaf continue. Now comes the rumor that all our big bakeries are to be merged into one organization, and the producing and marketing of our bread will be controlled by one corporation. It may be interesting for the public to know that of the \$745,473 worth of manufactured goods turned out last year by our different establishments, \$443,467 worth, or 60%, are articles of food. The meat packing and slaughtering business represents one-half of this 60%, or 30% of the whole, and is under the direct supervision of federal inspectors. The remaining 30% includes all other food products and is under the direct supervision of this department.

This 30% is divided amongst the following industries, which are listed in the order of their importance: Dairy products, glucose and starch, flour mills, bakeries, confectionery, poultry dressing, canning and preserving.

A standard loaf of bread continues to be favored by the smaller bakeries at least and we thought the last legislation would pass a law requiring the pound loaf or a multiple thereof. Those favoring it failed to marshal their strength sufficiently to impress the legislature with the necessity of such a law and nothing was done. The department rather favors a standard loaf and hopes some future legislation will pass a bill creating one. We feel such a law when once adopted will prove satisfactory to both

the baker and the public, and that it will be another step toward uniformity in the sale of an important article of food.

The department continues to require that all confectionery on display must be protected from flies, dust, etc., by a suitable covering. Poultry dressing establishments have come in for their share of our inspectors' attention during the killing season, and a marked improvement has been made in the sanitary condition, in and around these plants. It has been impressed upon the managers of these plants, as well as our retail dealers, that the law prohibits the sale of meat from a diseased animal.

MARKETING OF EGGS

Our egg men, as well as all others interested in raising the quality of the Iowa Egg, continue to talk standardization, or buying and selling on grade. But as Mark Twain said about the weather, "While everybody talks about it no one does anything." By that we mean no general policy of paying according to quality has been adopted by our egg buyers. There are though, a number of our larger buyers who have had the courage of their convictions, and put their egg buying on a graded basis. In talking with them we find they are well able to meet competition, and prefer it to the old way of buying, mine-run. It increases the percentage of number ones, and the farmers themselves favor it, when they realize the buyer means business and is adhering strictly to buying on grade. It is the only practical way of proving to the farmer that it pays him to produce quality stuff. If we were to choose between Iowa having the reputation of producing the most eggs of any state, or the best eggs of any state, we would take the latter, though there is no reason why she should not be credited with both. Her annual production of 150,000,000 to 160,000,000 dozen outranks any other state, and the united action of our state Poultry and Egg Association, The Poultry Extension Department at Ames, and the Agricultural Department, would soon put that volume in the front rank for quality. Pride is not the main reason for our continued argument for quality. It would add from five to ten million dollars to the vast sum already received from that source, and we are not so sure it would not increase the net profit of our packers, for the shipper makes his money on his No. 1 stock.

Much was said in our report of a year ago about our present

method of handling the storage egg. Our laws pertaining to that article are all right so far as they go. The labeling of the case or container as it goes in or comes out of storage, protects the dealers. But as yet, the consumer is not always informed as to what he is buying, as the law does not require the labeling of the container set before the consumer. It simply requires that a sign be posted on the wall that "cold storage goods are sold here." Too often it is put in an inconspicuous place, and even when read, it does not designate that the eggs on the counter labeled "Number One" or "Guaranteed" have been taken from cold storage stock. Too many of our retailers are inclined to think that all the storage eggs they can sell without disclosing their identity, are that much clear gain, not realizing that it is such practices that have created what seems to some an insurmountable prejudice against the storage egg, regardless of how good an article of food it may be. The longer we treat the storage egg as we do, the harder it is going to be to break down that prejudice and awaken the trade to the fact that a well kept storage egg is too good an article of food to be kept in the background like a poor relative. The customer is an important factor in the egg trade, and must receive fair treatment if he is to continue to be a liberal buyer. At present there are only three months in the year when the trade consumes eggs with a relish, that is the spring months. In the summer, we have the hot weather egg. In the fall, we have the mixture of storage, farm held and a few fresh. In the winter the price goes too high for general consumption, and the prejudice against a held egg prevents the trade from turning to them with enthusiasm.

The remedy for all this is not complicated. If the local packer will pay for his eggs after they are graded, instead of before, he can make a differential in price between the No. 1's and No. 2's in keeping with their real market value. Where adhered to, this works wonders in reducing the percentage of secondary eggs. It means larger and cleaner eggs in the spring, more frequent delivery in hot weather, and less inclination to hold for a raise in the fall. The farmer will do his part, when he is compensated for so doing. Only the best eggs should be stored, and this will be made easier if we lessen the volume of seconds. Then see to it that these eggs go clear to the consumer for just what they are (storage eggs). The public will respond when they realize how

good an article of food a storage egg can be, augmented by a reasonable price.

TENTATIVE U. S. GRADES OF EGGS

Five grades for eggs of sound, clean shells as follows:

- (1) U. S. Specials; (2) U. S. Extras; (3) U. S. No. 1; (4) U. S. No. 2; and (5) U. S. Culls.

Two grades for eggs of sound, dirty shells as follows:

- (1) U. S. Dirties No. 1 and (2) U. S. Dirties No. 2, and one grade for eggs of cracked shells; viz., U. S. Checks.

The standard condition of each quality factor permitted or required in each grade, with tolerance or percentage of eggs of a lower grade, is clearly indicated in the following chart of tentative U. S. Grades.



FRESH EGG.



HEATED EGG.



THE BADLY HEATED EGG.



HELD EGG.



STORAGE EGG.



THE SUNKEN YOLK



RED ROT.



BLOOD RING.



SPOT.



SUNKEN SPOT YOLK.



MOLD EGG.



BLACK ROT.

Beginning the first of May and continuing during the summer, our inspection force gave the enforcement of the Egg Law considerable attention. No doubt 75% of the eggs sold by the farmer go first to the merchant, and he in turn sells them to the packer. This class of buyers is given special attention during the candling season. Last year 93 prosecutions were made for not complying with the law as to handling eggs. 1925, like 1923, was a better year for the producer than the packer. The man who stored eggs was fortunate if he cleaned up his year's business without a loss.

The following tabulations compare the receipts and prices of this year with the last three years. Also they show the variations in price one month with another for the last ten years.

EGGS

No. dozen 1922.....	159,720,000
No. dozen 1923.....	175,000,000
No. dozen 1924.....	154,000,000
No. dozen 1925.....	150,000,000
Average price 1922.....	27.26c
Average price 1923.....	25.33c
Average price 1924.....	28.33c
Average price 1925.....	32.66c

AVERAGE MONTHLY PRICE PAID FARMER

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1915	28	30	22	16	17	16	15	15	16	20	23	27
1916	28	27	22	17	18	19	19	20	21	26	30	34
1917	35	36	33	25	30	31	27	28	32	34	35	39
1918	42	47	38	30	31	28	28	33	33	39	42	51
1919	56	45	30	34	37	38	33	37	38	47	52	59
1920	55	45	39	37	38	33	37	44	48	53	64	61
1921	49	32	21	18	16	20	22	26	27	37	46	44
1922	26	23	18	20	20	16	16	15	19	33	40	40
1923	35	25	20	22	21	18	16	21	36	28	45	34
1924	31	26	17	18	20	21	24	24	32	36	45	46
1925	43	30	25	25	25	25	26	28	30	35	50	50

RULES AND REGULATIONS PERTAINING TO BUYING AND SELLING OF EGGS

1. It is necessary that all egg dealers engaged in the business of buying, selling, dealing in or trading in eggs, except those retailers who buy direct from dealers having an Iowa license and who do not sell in lots greater than one case, obtain an egg dealer's license.

2. The license fee is \$1.00 for the period ending March 1st each year.

3. All eggs bought must be candled before settled for. This prohibits the buying or selling of eggs straight or case count.

4. A separate license must be obtained for each place of business where eggs are bought.

5. Each license is numbered and numbers are usually assigned in the same order as applications are received.

6. Those who for business reasons desire the same license number each year should apply for their new license one month before the old license expires, stating on the application the number of their license and that they desire the new license to bear the same number.

7. Farmers and other producers of eggs are not required to secure a license for the purpose of selling or trading in eggs produced by them.

8. All dealers buying eggs from the producer for resale must have a license.

9. Buying, selling, dealing in or trading in eggs in violation of the egg law, by any person, firm or corporation is an offense and renders the offender subject to a fine of not less than \$10.00 nor more than \$50.00.

HOTELS AND RESTAURANTS

Every hotel in the state must have a license. The fee covering the hotel license is determined by the number of rooms, as follows:

Class A. One hundred and fifty rooms or more.....	\$15.00
Class B. Seventy-six to one hundred forty-nine rooms, inclusive.....	10.00
Class C. Thirty-one to seventy-five rooms, inclusive.....	8.00
Class D. Sixteen to thirty rooms, inclusive.....	6.00
Class E. Fifteen rooms, or less.....	4.00

The hotel license covers the operation of the dining room or cafe in connection with the hotel, provided they are in the same building and are operated under the same management. The Code of 1924 gives two distinct definitions of a hotel—

"Hotel" shall mean any building or structure equipped, used, advertised as, or held out to the public to be an inn, hotel or public lodging house.

"Hotel" shall mean a place where sleeping accommodations are furnished transient guests for hire, whether with or without meals.

The department rules that a transient guest is one whose stay is short and indefinite and who pays a daily rate.

Persons permanently engaged in the business of renting rooms in their family homes, to transient guests, for hire, are deemed

by the department to be operating a hotel, within the meaning of the statute.

Persons are thus permanently engaged when the rooms are at all times available for transient guests, even though they may be occupied only for a part of the time.

Rooms rented occasionally, only for the accommodation of some transient guests, are not to be considered permanently engaged within the meaning of the statute.

The essential thing is that such persons have rooms continually available for such guests.

The evident purpose of the statute is to regulate those who make a business of doing so, and it is not the occasional renting of rooms, that brings the business within the provisions of the statute.

Last year there were issued 1,637 hotel licenses, divided between the several classes in about the following percent; 1% for Class A; 4% for Class B; 14% for Class C; 21% for Class D; and 60% for Class E.

Our hotels not only come under the sanitary law as to their construction, plumbing, lighting, ventilation, sewerage connections, and the location of their toilets, but there are special provisions for the bedding, table linens and kitchen utensils.

The inspector's sense of smell will often detect what the eye fails to see, for no matter how bright things may appear on the surface, the odor of hidden dirt, soiled bedding, and a carelessly kept kitchen, will pervade the whole house. On the other hand, nothing so impresses the inspector or a guest, as the sweet-smelling air of cleanliness that comes from the generous use of soap and water. Cleanliness from basement to roof is the distinctive feature of a good hotel, and is a salient point in our hotel inspection.

This is the Code's definition of a restaurant—

"Restaurant" shall mean any building or structure equipped, used, advertised as, or held out to the public to be a restaurant, cafe, cafeteria, dining hall, lunch counter, lunch wagon, or other like place where food is served for pay, except hotels and such places as are used by churches, fraternal societies, and civic organizations which do not regularly engage in the serving of food as a business.

The department rules that a boarding house is not a restaurant unless they cater to transient guests.

A boarding house catering to transient guests is classified as a restaurant and, therefore, must have a restaurant license.

Restaurants, like hotels, are subject to all the provisions of the sanitary law, amplified by the regulations of the Department, which prescribe the method to be followed in handling all food, as well as all cooking utensils and table furnishings.

The restaurant that appeals to its patrons through the cleanliness of its dishes, the sparkle of its glassware, and the whiteness of its table linen, has put its patrons in a mood to appreciate the food set before them. The number that are working along that line is increasing each year. But there are too many yet, who are merely serving foodstuffs in exchange for money, with as little expense and work as possible.

Last year, licenses were issued for 4,163 restaurants, and 1,598 licenses were granted for Fair purposes. This makes a big field for work in supervising and enforcing our food and sanitary laws, and much attention was given to this class of trade by our thirty-one men in the field last year. During the season 9,462 restaurant inspections were made, which indicates that some were investigated more than once.

WEIGHTS AND MEASURES

The work of weights and measures regulation in Iowa for the fiscal year ending December 31, 1925, maintained the high standard of former years. More than this, it manifested the usual forward trend as is shown by the following summary: During the year ending December 31, 1925, the Department inspected 75,979 scales or weighing devices. Very few scales escaped being tested at least once during the year. Of the total number of scales inspected, 1,648 were condemned for repairs. There were also 12,727 gasoline pumps and measures tested, of which 613 were condemned for repairs.

The following table shows the percentage of scales inspected that were found incorrect:

	Tested	Condemned	11. %
Wagon scales	3,795	444	11. %
Counter scales	43,307	840	2. %
Platform, Cream Test, Penny-in-the-slot	28,877	364	1.2%
Gasoline pumps and measures.....	12,727	613	4.8%

INVESTIGATIONS

* Figures can hardly show the volume and character of the work which these entail. It is the necessary duty of the Department to devote considerable time to investigations, a large number of which never show anything on the surface so far as tangible results are concerned, but which must be pursued in order to insure a proper respect for the law. For instance, the Inspector may trail a peddler who has come under suspicion, for a long time before being able to develop a case that will warrant his being brought into court.

Another instance is where our Inspectors have spent days making an investigation of an accident caused by a kerosene explosion. In numerous instances prosecutions never materialize, consequently in such cases there is nothing to show the efforts that our men put forth. Investigations, as a general rule, come as the result of complaints, or observations, that certain conditions are not as they should be.

FUEL

The coal situation showed a decided improvement so far as short weight deliveries were concerned, and indicated that the reweighing activities of the Inspectors have had very good effect.

When any of the commodities enumerated in this section shall be sold by the bushel or fractional part thereof, the measure shall be determined by avoirdupois weight and shall be computed as follows:

WEIGHTS OF ONE BUSHEL, ONE PECK, AND ONE QUART OF CERTAIN PRODUCTS AS PROVIDED BY THE LAWS OF IOWA.

	1 bushel pounds	1 peck pounds	Ounces 1 quart
Apples	48	12	24
Apples, dried	24	6	12
Alfalfa seed	60	15	30
Barley	48	12	24
Beans, green	56	14	28
Beans, dry	60	15	30
Beans, lima	56	14	28
Beets	56	14	28
Bluegrass seed	14	3½	7
Bran	20	5	10
Bromus inermis	14	3½	7
Broom corn seed	50	12½	25
Buckwheat	48	12	24
Carrots	50	12½	25
Cashew	50	12½	25
Charcoal	20	5	10
Cherries	40	10	20
Clover seed	60	15	30
Coal	80	20	40
Coke	40	10	20
Corn, ear	70	17½	35
Corn, unhusked	75	18¾	37½
Corn, shelled	56	14	28
Corn meal	48	12	24
Cucumbers	48	12	24
Escher	40	10	20
Flax seed	56	14	28
Grapes, stems	40	10	20
Hemp seed	44	11	22
Hickory nuts hulled	50	12½	25
Hungarian seed	50	12½	25
Kaffir corn	56	14	28
Lime	80	20	40
Millet seed	50	12½	25
Oats	82	8	16
Onions	52	13	26
Onion top sets	28	7	14
Onion bottom sets	32	8	16
Orchard grass seed	14	3½	7
Osga orange seed	32	8	16
Parasols	45	11¼	22½
Peaches	48	12	24
Peaches, dried	32	8½	16½
Peanuts	22	5½	11
Pears	45	11¼	22½
Pears, unshelled	50	12½	25
Pears, dried	60	15	30
Phums	42	12	24
Pop corn, cob	70	17½	35
Pop corn, shelled	56	14	28
Potatoes	60	15	30
Quinces	48	12	24
Rape seed	50	12½	25
Redtop seed	14	3½	7
Rutabagas	60	15	30
Rye	56	14	28
Salt	80	20	40
Sand	120	30½	61
Shorts	30	7½	15
Sorghum seed	50	12½	25
Speltz	60	15	30
Speltz	40	10	20
Sweet potatoes	50	12½	25
Timothy seed	45	11¼	22½
Tomatoes	50	12½	25
Turnips	55	13¾	27½
Walnuts	50	12½	25
Wheat	60	15	30
All root crops not specified above	50	12½	25

1 dry qt.—67.2 cu. ins. 1 liquid qt.—67.75 cu. ins. A dry qt. holds 14 per cent more than a liquid qt. Dry commodities must be sold by weight or dry measure.

WEIGHTS OF MILK AND CREAM

In general the specific gravity of milk or cream depends upon the percentage and relation of solids contained in it, the temperature at which the determinations are made and the age of the milk. The weight of one gallon of water at 68-degrees F. (20 degrees C.), according to the Bureau of Standards, is approximately 8.32162 pounds. Using this figure as the weight of water and using the specific gravities of milk and cream of various percentages as given in U. S. Department of Agriculture Bulletin No. 98 the following table has been worked out for the weights per gallon, at a temperature of 68 degrees F.

	Percentage of Fat	Specific Gravity	Weight per Gallon (Pounds)
Water		1.000	8.32162
Skim	0.025	1.037	8.6295
Milk	3.	1.034	8.6045
Milk	3.5	1.033	8.5962
Milk	4.	1.032	8.5879
Milk	5.	1.031	8.5796
Milk	6.	1.030	8.5713
Mixed milk and cream.....	10.	1.025	8.5297
Mixed milk and cream.....	13.	1.018	8.4714
Cream	18.	1.015	8.4464
Cream	20.	1.013	8.4298
Cream	22.	1.011	8.4132
Cream	25.	1.008	8.3882
Cream	28.	1.006	8.3715
Cream	30.	1.004	8.3549
Cream	32.	1.002	8.3383
Cream	35.	.999	8.3133
Cream	38.	.997	8.2967
Cream	40.	.995	8.2800

Weights are given at 68 degrees F. because this is the temperature that was used in determining the specific gravities (20 degrees C. being the temperature generally used for such work). The weight would be very slightly greater for milk at 50 degrees to 60 degrees, the temperature at which milk is usually received at the plant.

For all practical purposes the weight of ordinary market milk may be figured at 8.6 pounds per gallon.

AGRICULTURAL SEEDS

Bulletin No. 32, issued by the department for free distribution on request, has tabulated a summary of the results of the analyses of samples of agricultural seeds which it collected during the spring of 1925. A detailed report of the analysis of each individ-

ual sample of seed is on file in the office of the department and inquiries regarding any sample will be gladly answered. These samples were collected in each case from lots of seed that had been sold, or were being offered for sale. In all, eleven hundred samples were collected, representing, we believe, every seed company doing business in Iowa. The results show that in the majority of cases there was a violation of the law in regard to the labeling of the seed. In most cases, the violation was due to failure to state one or all of the following facts: per cent of weeds present, where and when the seed was grown, and the date seed was tested. A statement of the purity and germination was all that was given on many of the labels.

A considerable number of shipments of seeds were found to contain an excess of noxious weeds which made their sale illegal, even though the label stated these noxious weeds were present. The sale of illegal seeds was stopped in every case where the seed had not been sold, before the analysis was completed, and every effort was made to get the report of the examination back to the dealer and inspector as promptly as possible. We believe that by stopping the sale of bad seed, the best interests of the farmer were protected, and shipments that were condemned were promptly returned to the seed wholesaler.

It is evident from our investigation that reputable seed dealers make a very serious effort to sell only good seed, labeled as the law requires, and farmers should buy only of this class of dealers. There is very little variation in the price of seed of the same quality, and any quotation materially below the average of reputable dealers should be looked upon with suspicion.

The quality of seed the farmer plants is of such importance, that in every case he should require complete information as to its purity and germinability, and until he does insist on this information, it will be impossible to measure the highest quality of seed for his use.

The law requires that when certain noxious weeds are present in excess of one seed in five grams, the label must so state. Other noxious weeds are not permitted in excess of one in five grams. (See Law, Section 3137). Poor seed is expensive at any price and the better the seed the better the crop. The harvest determines the farmer's return for his investment and labor.

There is much homegrown seed, mostly timothy and red clover, sold through the local merchant, and the analyses of these

samples have been grouped together in this report. It will be noted by referring to these analyses, that in practically every case they were not labeled, and that in many cases they were badly contaminated with noxious weeds. Local merchants who expect to handle homegrown seed, must have the various lots of seed they buy for resale, analyzed, or require the farmer to have them analyzed before he purchases them.

The department is required to make a charge of fifty cents for analysing each sample of seed for the farmer, which does not cover the cost to the department, but in the interest of pure seed the state assumes a part of the expense. Surely it is worth fifty cents to any farmer to know the quality of the seeds from which he expects to harvest his crops.

Note: Under the heading "Germination," G represents the seed that grew, H, the hard seed, and D, the dead seed. C indicates what the company claimed, and F what the department found by analysis.

The activities of the department in testing seeds each year is producing an improvement in the quality of the seeds being sold to the Iowa farmer. The farmers' co-operation, however, is necessary if we are to eliminate poor seed from the market. It is bad practice to buy any kind of seed whose purity and germination is unknown.

IOWA AGRICULTURAL SEED LAW

(REPRINTED FROM THE CODE OF IOWA, 1924)

3127. Definitions and Rules of Construction. For the purpose of this chapter:

1. "Agricultural seed" shall mean the seeds of Canada or Kentucky bluegrass, brome grass, fescues, millet, tall meadow oatgrass, orchard grass, reedtop, Italian, perennial, or western rye grass, Kaffir corn, sorghum or cane, Sudan grass, timothy, alfalfa, alsike, crimson, mammoth or sapling, red, sweet, or white clover, Canada field peas, cow-peas, soy beans, vetches, and other grasses and forage plants, buckwheat, flax, rape, barley, field corn, oats, rye, wheat, and other cereals.

2. "Weed seed" shall mean the seeds of noxious weeds listed herein, and all seeds not listed above as agricultural seed.

3. "Noxious weeds" shall mean common wild mustard or charlock, Indian mustard, perennial sow thistle, sour, curled, or

smooth dock, wild oats, corn cockle, sheep or horse sorrel, and such other plants as may be declared to be noxious weeds as provided in the next succeeding section.

4. "Purity" of agricultural seed shall mean freedom from inert matter, and from other agricultural or weed seed distinguishable by their appearance.

3128. Additional Noxious Weeds—Hearing—Determination. Whenever it shall appear to the department that any plant, other than those specifically enumerated in the last preceding section, has become, or threatens to become a menace to the agricultural industry of this state, the secretary of agriculture shall call a committee of three experts in plant life, one of whom shall be the botanist of the state college of agriculture and mechanic arts. If the said committee shall find that such plant has become, or threatens to become, a menace to the agriculture industry, it shall so report to the department, which shall declare the same to be a noxious weed. Notice of such declaration shall be given by posting same at the courthouse in each county of the state and the provisions of this chapter shall apply to such plant from and after thirty days from the posting of said notice.

3129. Labeling Agricultural Seed. All agricultural seed offered or exposed for sale, or sold in package or wrapped form, for seeding purposes shall be labeled on the package or container, as provided in sections 3037 and 3038, and in addition thereto shall have printed on the label prescribed in said sections:

1. Variety of seed.
2. The approximate percentage, by weight, of the purity of the seed.
3. The approximate total percentage, by weight, of weed seed.
4. The name of each kind of seed or bulblet of noxious weeds which is present.
5. The approximate percentage of germination of such agricultural seed, together with the month and year said seed was tested, and year grown, and, if corn, the county and state where grown, and, if clover of any variety, or alfalfa, the state or country where grown.

3130. Labeling of Certain Mixed Seed. Mixtures of alsike and timothy, alsike and white clover, reedtop and timothy, alsike

and red clover, offered or exposed for sale, or sold as mixtures in package or wrapped form, for seeding purposes and in lots of ten pounds or more, shall be labeled on the package or container as to the quantity, percentage of weed seed present, and name of vendor, in the manner prescribed for pure agricultural seed, and in addition the label shall contain the following specific items:

1. The statement that such seed is a mixture.
2. The name and approximate percentage by weight of each kind of agricultural seed present in such mixture in excess of five per cent, by weight, of the total mixture.
3. The name of each kind of seed or bulblet of noxious weeds which is present singly or collectively in excess of one seed or bulblet in each fifteen grams (approximately three-fifths ounce) of such mixture.
4. The approximate percentage of germination of each kind of agricultural seed present in such mixture in excess of five per cent by weight, together with the month and year said seed was tested, and year grown.

3131. Labeling Other Mixtures of Seed. Special mixtures of agricultural seed, except as provided in the preceding section, offered or exposed for sale, or sold in package or wrapped form for seeding purposes, and in quantities of eight ounces or more, shall be labeled on the package or container as prescribed in the preceding section, except that the percentage of germination need not be stated, but the label shall contain a statement showing the approximate percentage by weight of inert matter.

3132. Written Labels. The label on a package or container of agricultural seed may be written instead of being printed, but when written, the writing must be plain and legible.

3133. Sales from Bulk. In case agricultural seed or mixtures of the same are offered or exposed for sale in bulk, or sold from bulk, there shall be conspicuously displayed in connection therewith a placard containing the items required on the label of such seed when offered or exposed for sale, or sold in package or wrapped form, or in lieu of this requirement the vendor may furnish the vendee with a printed or written statement containing the said items.

3134. Presumption of Freedom from Weed Seed. In every

sale of agricultural seed or mixture of the same it shall be presumed that the said seed is free from weed seed unless the label on the package or container specifies the presence of such weed seed or the purchaser is informed of the presence of the same in the manner provided in the preceding section.

3135. Analysis of Seed for Personal Use—Fee. Any person purchasing any agricultural seed in this state for his own use may submit fair samples of said seed to the department, accompanied by an analysis fee of fifty cents for each sample and a proper analysis of the same shall be made and furnished.

3136. Exemptions. Agricultural seed or mixtures of same shall be exempt from the provisions of this title:

1. When possessed, exposed or offered for sale, or sold for food purposes only.
2. When sold or in store for the purpose of recleaning.
3. When sold by one farmer to another and delivered upon the vendor's premises; but if such seed is advertised for sale or is delivered through a common carrier, then the seed shall be subject to all the requirements of this title, but this exemption shall in no event be construed as permitting the sale of agricultural seed containing the seeds or bulblets of Canada thistle, quack grass, buckhorn, wild carrot, horse nettle, or dodder (clover, alfalfa, or field) in violation of the next succeeding section.

3137. Certain Sales Prohibited. No person shall sell, offer or expose for sale, or distribute, for seeding purposes, any agricultural seed if the seeds or bulblets of Canada thistle, quack grass, buckhorn, wild carrot, horse nettle, or dodder (clover, alfalfa, or field) are present, singly or collectively as follows:

1. In excess of one seed or bulblet in each five grams of timothy, redbud, tall meadow oatgrass, orchard grass, crested dog's tail, Canada or Kentucky bluegrass, fescues, brome grass, Italian, perennial or western rye grass, crimson, mammoth or sapling, red, white, alsike, or sweet clover, alfalfa, or any other grass or clover not otherwise classified.
2. One in twenty-five grams of millet, rape, flax, or other agricultural seed not specified in subsections 1 or 3 of this section.
3. One in one hundred grams of wheat, oats, rye, barley, buckwheat, vetches, or other agricultural seed as large or larger than wheat.

Section 3037. **Labeling.** All articles in package or wrapped form which are required by this title to be labeled, unless otherwise provided, shall be conspicuously marked in the English language in legible letters of not less than eight point heavy gothic caps on the principal label with the following items:

1. The true name, brand, or trademark of the article.
2. The quantity of the contents in terms of weight, measure, or numerical count. Under this requirement reasonable variations shall be permitted, and small packages shall be excepted in accordance with the rules of the department.
3. The name and place of business of the manufacturer, packer, importer, dispenser, distributor, or dealer.

The above items shall be printed in such a way that there shall be a distinct contrast between the color of the letters and the background upon which printed.

Sec. 3038. **Small Packages Excepted.** In case the size of the package or container will not permit the use of the type specified in the preceding section, the same may be reduced in size proportionately in accordance with the rules of the department.

COMMERCIAL FEED

Commercial feed, under the law, means food, except that it shall only include food in concentrated form, and mineral mixtures, intended for feeding to domestic animals, and shall not include hay, straw, whole seeds, unmixed meals made from entire grains of wheat, rye, barley, oats, Indian corn, buckwheat, or broom corn; nor shall it include wheat flour or other flours fit for human consumption. Food, under our law, includes any article used by man or domestic animal for food or drink.

Before a commercial feed can be offered for sale, a registration fee of fifty cents shall be paid into the department, accompanied by an affidavit containing the items on the label. Upon request, a sealed glass jar or bottle containing not less than one pound of said feed shall accompany the registration fee and affidavit.

In addition to the registration fee of fifty cents, an inspection fee of ten cents per ton must be paid upon all commercial feed offered for sale, except stock tonic. This inspection fee is paid in the form of a tax tag attached to each lot shipped in bulk, and to each package or container of commercial feed. Any person

selling one ton or more shall be considered as complying with the law, if he delivers to the purchaser the required number of tags, even though they are not attached to the various containers.

No person shall sell in ground form wheat or rye screenings containing cockle or other poisonous substances, or use a counterfeit of any of the inspection tags.

A fair sample of feeds purchased for one's own use may be sent to the department for analysis if accompanied by one dollar.

As defined in our present law, "Stock Tonic" is considered a class of commercial feed, such as medicated stock or poultry foods, including such preparations as are composed wholly of drugs—except liquids—which contain any substance claimed to possess medicinal, condimental, or nutritive properties.

In addition to the requirements of other feeds, the label shall state the English name of each drug and the total percentage of all drugs, and the actual percentage of salt, charcoal, and sulphur, and the actual percentage and name of any other ingredient contained in such stock tonic.

Before any person shall solicit orders for delivery, offer or expose for sale, or sell any stock tonics, he shall, in lieu of the inspection fee of other feeds, pay to the department on or before the fifteenth of July each year, a general inspection fee of six dollars per annum for each product manufactured. The department is authorized to have access to all places where said stock tonic is sold or offered for sale, that it may take up samples for examination or analysis.

Payment of any inspection fee by the manufacturer or importer of any stock tonic shall exempt all other persons from such payment.

Do not accept feed in untagged or unlabeled packages, except products exempted under the feeding stuffs law; or feed in packages that are labeled in such a way that it is difficult to decipher the information that you are entitled to under the law. On each package you are entitled to a statement of the net weight, the percentages of protein and fat, the percentage of crude fiber, per cent of nitrogen free extract, and the ingredients from which the feed is compounded and the name and address of the manufacturer.

For a report on the analysis of commercial feeds for 1924, and the definitions of feeding stuffs adopted by the Association of

Feed Control Officials of the United States at various times, and including the definitions adopted at the recent meetings of the association held November 13 and 14, 1922, at Washington, D. C.—send for Bulletin No. 23, Iowa Department of Agriculture. These definitions should be used for the guidance of manufacturers shipping and selling feeds in Iowa:

TERMS USED IN THE ANALYSIS

Crude Protein is the nitrogenous compounds found in feeds, which are the most complex of the nutrients present. In the body they are broken down and used for growth and repair of the tissues.

Crude Fat exists in all feeds, either in solid form or in the form of oil. The principal function of fats in the body is the production of heat.

Crude Fiber is the woody or fibrous structure of the feed and is less digestible than any other part of the feed.

Nitrogen Free Extract is composed almost entirely of starches and sugars, they are very digestible and have a high nutritive value. They furnish energy, fat and heat to the animal.

By observing the analysis which appears on the label of all feeds and taking the cost of the feed, the feeder can calculate the cost of each unit of the above nutrients.

The importance of the feed industry in Iowa is evidenced by the fact that during 1923 there was sold over 214,000 tons of mixed feeds on which an inspection fee was paid. The proper control of these feeds is of great importance to the stock feeders and dairymen of Iowa. The law controlling the sale of feeds gives the purchaser protection against adulterated and misbranded products, and saves him much more than the cost of inspection. The Department of Agriculture is performing a real service to the feeders of Iowa in supervising and controlling the sale of the feeds they use. It is estimated that the farmers of Iowa spend in excess of \$1,000,000 annually for the one item Tankage.

An inspection of this product during the winter of 1923 in which 195 samples were collected in various parts of the state and analyzed in the Laboratory of the department, showed that in most cases the product was properly branded.

It was found, however, that a few manufacturers were making

a practice of selling tankage labeled to contain 60% of protein, which upon analysis contained a much less amount.

In every case where the proper evidence was obtainable, successful prosecutions were made. Two firms in Illinois were found shipping tankage into Iowa labeled to contain 60% of protein, which in truth contained from 40 to 50%. As these firms were out of state jurisdiction, Federal samples were collected by the inspectors of the department with the result that five cases have been filed against one of the firms and the other firm is bankrupt. 60% tankage at \$60.00 per ton means \$1.00 for each unit of protein, showing that a shortage of 10% in protein means a loss of \$10.00 per ton to the purchaser. This is equivalent to \$300.00 on a 30 ton car. It is the intention of the department to give the tankage shipment into Iowa special attention and stop the operation of dishonest shippers. The analysis shown in another part of this report indicates that there are a considerable number of firms selling honestly labeled tankage, and feeders should buy only of such firms. Under the law a person who buys feed for his own use, can submit a fair sample to the department and have it analyzed for a nominal fee of \$1.00. This fee does not nearly cover the cost of analysis, but the feeder is given this protection to assist him in getting full value from the money he invests in his feed. The manufacturers of feeds other than tankage were found, in most cases, to be labeling their products in compliance with the law. Some discrepancies were found in the case of Linseed Meal, and two prosecutions were made for labeling this product to contain more protein than was actually present. There occasionally appears on the market, tankage containing considerable amounts of hoof and horn, and purchasers of tankage should examine this product before purchasing. Hoof and horn appear as amber-like particles in the tankage and are easily distinguished.

Hoof and horn are high in nitrogen, but the nitrogen is not available to the animal. Under the law, the sale of such a product is illegal under the name of Tankage.

Some of the large manufacturers of tankage are to be criticised for their apparent fear that their tankage will exceed 60 per cent protein, which results in a product containing in many cases from 58% to 59.5% protein, making the average protein

content slightly below their guarantee. Tankage labeled 60% protein should show an average content of this amount.

There is a considerable amount of rendering plant tankage produced in Iowa, but the most of this is sold locally to feeders who haul it direct to the farm from the plant. This product does not contain more than 40 to 45% protein generally. Some large rendering plants attempt to produce a 60% protein tankage by the use of dried blood, but we find that they seldom use sufficient blood to bring their product up to their guarantee.

During 1925 there were 1,080 different brands of feeds registered with the department as required by the law. There were also registered 155 Stock Tonics and 150 Mineral Mixtures. The feeding of Minerals to farm animals is becoming a general practice and the number of these products on the market is increasing each year. There has been an inclination with some manufacturers of Minerals to use inferior materials in their products, and the department is of the opinion that the law regulating the labeling of these will have to be changed to eliminate this practice. The National Association of Feed Control Officials have recommended that the label on Mineral Mixtures be required to show the minimum percent of Lime as Ca O, the Phosphates as P₂O₅, Salt, and Iodine. This form of labeling will disclose any inferior materials which have been used. The manufacturers of Stock Tonics, with few exceptions, have labeled their products as required by law.

There is a marked tendency among the larger manufacturers of Stock Tonics to eliminate from the industry dishonest manufacturers and place the business on a reputable basis.

REPORT OF THE LABORATORY

During 1925, the laboratory has been busy making chemical analyses of the various products which come under the laws enforced by the department. Owing to the fact that the laboratory has, in the past, been unable to do all the work required of it, the analysis of liquors for the various county attorneys was discontinued in July. This work had been done for a number of years in the interest of co-operation, but with the consolidation of the various departments under the Department of Agriculture, the work of the laboratory increased to such an extent that it was necessary to discontinue it.

The number of samples analyzed during 1925 shows an increase over 1924, and are listed as follows:

Butter	790
Milk and Cream	1,318
Miscellaneous	273
Stock Foods	147
Liquors	251
Ice Creams	97
Bacteriological	24

Making a total of 2,894 samples analyzed.

The results of the analyses of 573 samples of the butter analyzed are of interest, and are given here.

Several prosecutions were made of creameries which persisted in selling butter with less than eighty per cent (80%) of fat.

Out of the 573 samples taken, there were 129 below the legal limit for fat. This is too large a percentage, and if a persistent taking of samples for analysis will have a salutary effect, the percentage will be lowered, as we aim to at least double the samples analyzed during 1926.

REPORT ON SAMPLES OF BUTTER ANALYZED BY THE DEPARTMENT

573 Samples Analyzed
AVERAGE ANALYSIS SHOWED

Fat	81.12
Salt	2.44
Casein98
Moisture	15.46

FAT			
1 sample	contained	74%	fat
5 samples	contained	75%	fat
13 samples	contained	76%	fat
6 samples	contained	77%	fat
41 samples	contained	78%	fat
66 samples	contained	79%	fat
138 samples	contained	80%	fat
112 samples	contained	81%	fat
108 samples	contained	82%	fat
64 samples	contained	83%	fat
21 samples	contained	84%	fat
5 samples	contained	85%	fat
2 samples	contained	86%	fat
1 sample	contained	87%	fat

MOISTURE			
1 sample	contained	21%	moisture
3 samples	contained	20%	moisture
6 samples	contained	19%	moisture
12 samples	contained	18%	moisture
42 samples	contained	17%	moisture
118 samples	contained	16%	moisture
187 samples	contained	15%	moisture
132 samples	contained	14%	moisture
58 samples	contained	13%	moisture
12 samples	contained	12%	moisture
2 samples	contained	11%	moisture

SALT	
20 samples contained less than 1% salt	
147 samples contained 1% salt	
268 samples contained 2% salt	
107 samples contained 3% salt	
24 samples contained 4% salt	
4 samples contained 5% salt	
1 sample contained 6% salt	

CASEIN	
318 samples contained less than 1% casein	
251 samples contained 1% casein	
2 samples contained 2% casein	

HIGH MOISTURE

182 of the 573 Samples Analyzed Contained 16% or more Moisture

1 sample contained 21% moisture	
3 samples contained 20% moisture	
6 samples contained 19% moisture	
12 samples contained 18% moisture	
42 samples contained 17% moisture	
118 samples contained 16% moisture	

FAT CONTENT OF HIGH MOISTURE SAMPLES

40.66% of High Moisture Samples Contained 80% Fat or Better

1 sample contained 74% fat	
5 samples contained 75% fat	
13 samples contained 76% fat	
6 samples contained 77% fat	
39 samples contained 78% fat	
44 samples contained 79% fat	
60 samples contained 80% fat	
11 samples contained 81% fat	
2 samples contained 82% fat	
1 sample contained 83% fat	

INSPECTION SERVICE

The work of our inspection force not only continues to merit all that was said for it in our last report, as compared with the work formerly done by the Dairy, Hotel and Oil Departments working separately, but 1925 will show an increased number of inspections over 1924, as well as better service rendered. Special attention has been given to the inspection of farm dairies, hotels and restaurants, our large plants for dressing poultry, creameries and produce houses.

An examination of the table showing the total inspections for the year, toward the end of this report, will show that all the industries coming under the supervision of this department have received more attention than in 1924. There was an increase of almost 20%, and compared with what was done when the several departments were working separately, an increase of fully 80%.

The spring meeting, here at Des Moines, where all the men come together with the heads of the department for a week's conference, as well as several minor conferences in different parts of the state, have done much for the men in giving them a better understanding of some lines of their work, as well as ironing out many complications that necessarily occur in so varied a service. A general plan of team work has been developed that prevents overlapping and duplication between adjacent territories. The men, with the exception of the three who carry heavy scale weights, are all traveling in self-starting Ford Coupes, an improvement over the original Fords with which the men made such a remarkable record for two years.

It is with considerable satisfaction that the Department presents the following statement showing the complete cost of maintaining twenty-six Ford cars for its inspectors:

Cost of cars (26 at \$378.35).....	\$ 9,837.10
Total expense for two years.....	19,362.29
<hr/>	
Total outlay	\$29,199.39
Amount received for cars sold.....	4,288.00
<hr/>	
Total expense for the two years.....	\$24,911.39
Total miles traveled.....	630,203 miles
Cost per mile (3 95/100 cents).....	\$.0395
Average miles per car per year.....	12,119 miles
Total depreciation on 26 cars.....	\$ 5,616.05
Depreciation per mile (89/100 cents).....	\$.0089
Oil, per mile (27/100 cents).....	.0027
Gas, per mile (1 17/100 cents).....	.0116
Tires and tubes, per mile (33/100 cents).....	.0033
Repairs, per mile (87/100 cents).....	.0086
Storage, per mile (44/100 cents).....	.0044
<hr/>	
Total cost per mile (3 95/100 cents).....	\$.0395

As seen by the statement, these cars were furnished the men new on July 1, 1923, and sold after two years of use. The result is a credit both to the men and the department. It can hardly be expected that the new cars can be operated as cheaply, as an increased depreciation will have to be taken in account, as well as a slight increase in maintenance. It is the hope, though, that the cost per mile will be well under five cents.

The policy of the department has been, that its benefit to the state should be measured by the service rendered, rather than the number of convictions made. That is, we feel better when we can convince a merchant of his errors, rather than when we convict him for those errors. So far this policy has proved very

LICENSES ISSUED AND FEES RECEIVED YEAR ENDING DECEMBER 31, 1925

Oil Inspection Fees.....No.	1,020,389	\$ 51,019.47
Sanitary Law Licenses.....No.	6,114	13,729.00
Babcock Test Licenses.....No.	4,750	11,887.50
Egg Dealers' Licenses.....No.	8,222	8,222.00
Scale Tag Licenses.....No.	1,822	5,466.00
Scale Inspection Fees.....No.	3,795	12,461.50
Inspection Tag Fees.....No.	283,382	28,338.20
Milk Dealers' Licenses.....No.	6,804	6,804.00
Gasoline Pump Licenses.....No.	8,173	24,519.00
Hotel Transfer Fees.....No.	90	90.00
Fair Licenses.....No.	1,640	5,618.00
Fair Restaurant Licenses.....No.	1,598	4,794.00
Restaurant Licenses.....No.	4,163	12,489.00
Commercial Feeds Fees.....No.	1,356	1,278.00
Feedstuffs Analysis Fees.....No.	122	122.00
Seed Analysis Fees.....No.		30.50
Rendering Plant Licenses.....No.	149	3,725.00
Cold Storage Licenses.....No.	16	400.00
Commercial Fertilizer Licenses.....No.	37	740.00
Butter Trade-Mark Fees.....No.	3	60.00
Mattress Factory Fees.....No.	8	80.00

\$200,873.17

DAIRY AND FOOD DIVISION—YEAR ENDING DECEMBER 31, 1925

Office Force	Salary	Expense
R. G. Clark.....	\$ 3,000.00	\$ 214.94
M. E. McMurphy.....	2,300.00	418.73
F. L. Redfern.....	2,800.00	151.79
C. S. Bogle.....	2,400.00	137.28
W. G. Jordan.....	2,100.00	
A. W. Day.....	2,100.00	33.06
R. V. Barker.....	1,500.00	
Agnes L. Hermansen.....	1,500.00	
Evelyn Rees.....	1,320.00	
Marjorie Butler.....	600.00	
Helen Hackley.....	750.00	
Dinah Larson.....	475.21	
Mildred Liddell.....	600.00	
Anna Murphy.....	538.49	
W. W. Shaffer.....	900.00	
Virgil K. Webster.....	330.68	
R. E. Bennett.....	344.98	
Inspectors:		
J. B. Frisbie.....	1,000.00	730.40
F. L. Odell.....	2,200.00	663.48
T. A. Clark.....	2,200.00	537.01
Guy Thomas.....	2,200.00	780.00
Roy Scoles.....	2,200.00	916.40
C. N. Hart.....	2,200.00	967.29
D. T. Broers.....	2,200.00	719.27
G. B. Guthrie.....	1,975.18	801.18
F. D. Payn.....	2,200.00	748.73
Burr Willis.....	2,200.00	725.73
A. A. Nolte.....	2,200.00	706.18
L. E. Otterback.....	2,200.00	808.00
J. W. Milnes.....	2,000.00	921.50
R. E. Long.....	2,200.00	967.29
S. S. Rygh.....	2,200.00	814.38
W. A. Carrier.....	2,012.50	890.00
B. F. Schulte.....	2,200.00	900.72
Frank Johnson.....	2,200.00	820.71
J. D. Fiete.....	2,200.00	1,113.57
A. L. Landis.....	2,200.00	650.29
F. W. Stephenson.....	2,200.00	715.48
W. W. Newland.....	2,200.00	620.25
O. P. Thompson.....	2,200.00	821.43
A. E. Robertson.....	2,200.00	769.35
Peter White.....	1,079.82	378.97
K. E. Mittlestadt.....	2,200.00	906.44
S. H. Gatzman.....	2,200.00	665.11
Fred Sude.....	2,200.00	841.09
H. E. Ritter.....	2,200.00	503.73
H. W. McElroy.....	2,200.00	633.67
C. J. Nolan.....	2,200.00	1,732.09
A. B. Briggs.....	2,200.00	1,764.56
E. O. Browne.....	2,200.00	1,404.96
General office and laboratory expense.....		6,981.02
New automobiles.....		11,476.92
	\$ 94,433.38	\$ 47,239.17

CANNING FACTORIES

Following is complete 1925 directory of all canners and packers in Iowa-Nebraska as recently revised by this office.

KEY

A—Corn. B—Peas. C—Tomatoes. D—Apples. E—Green beans. F—Pumpkin and squash. I—Hominy. J—Lima beans. K—Kraut. M—Meat. N—Succotash. P—Sweet potatoes. R—Rhubarb. s—Pork and beans and baked beans. j—Spinach. k—Cider. m—Milk. p—Tomato pulp. r—Red kidney beans. t—Catsup and chili sauce. u—Mince meat. 3—Syrup and molasses.

IOWA

Ames Canning Co.....Ames. A-F-R.
 Anderson Bros. Co.....Oskaloosa. A-C-F.
 Atlantic Canning Co.....Atlantic. A-F.
 Audubon Canning Co.....Audubon. A.
 Armour & Co.....Office—Chicago. M.
 Factory—Sloux City.
 Baxter Bros. Co., The.....Office—Brunswick, Me. A-N.
 Factory—Wapello.
 Bell Canning Co.....Office—Waterloo. A.
 Factories—Grundy Center and Reinbeck.
 Belle Plaine Canning Co.....Belle Plaine. A.
 Brighton Canning Co.....Brighton. F-K-t.
 Burlington Vinegar & Pickle Works.....Burlington. Vinegar, pickles and catsup.
 Caster Canning Co.....Leon. C.
 Cambridge Packing Co.....Office—Toledo. A.
 Factory—Cambridge.
 Carnation Milk Products Co.....Office—Oconomowoc, Wis. m.
 Factory—Waverly.
 Cedar Falls Canning Co.....Cedar Falls. A.
 Cedar Rapids Canning Co.....Cedar Rapids. C-E-p.
 Center Point Canning Co.....Center Point. A.
 Cherokee State Hospital.....Cherokee. A-C.
 Clarksville Canning Co.....Office—Vinton. A.
 Factory—Clarksville.
 Cudahy Packing Co., The.....Office—Chicago, Ill. M.
 Factory—Sloux City.
 Decker & Sons, Jacob E.....Mason City. M.
 Denmire, L. E.....Office—Montrose. C.
 Factories—Montrose, Farmington, Sandusky.
 Dexter-Farmer Canning Co.....Office—Dexter. A-F.
 Factories—Dexter, Van Horne.
 Elgin Canning Co.....Elgin. A.
 Farmer Canning Co., J. LeRoy.....Office—Monticello. A.
 Factories—Monticello, Tipton.
 Farmer Canning Co., S. T.....Story City. A.
 Farmer Canning Co., V. F.....Mt. Pleasant. A.
 Gilman Canning Co.....Office—Grinnell. A-F.
 Factory—Gilman.
 Gladbrook Mustard Factory.....Gladbrook. Mustard.
 Glenwood Canning & Fruit Pro. Co.....Glenwood. C-k-vinegar.
 Grimes Canning Co.....Office—Des Moines. A-F-I-J-I-r.
 Factories—Grimes, Altoona, Pella, Perry, Rockwell City.
 Grinnell Canning Co.....Grinnell. A.
 Guttenberg Canning Co.....Guttenberg. A.
 Hausserman Packing Co.....Perry. M.
 Independence Canning Corp.....Independence. A.
 Iowa Canning Co.....Office—Vinton. A.
 Factories—Vinton, La Porte City, Garrison, Shellsburg.
 Iowa City Canning Co.....Iowa City. A.
 Iowa Valley Canning Co.....Marengo. A.
 Iowa Packing Co.....Des Moines. M.
 Keokuk Canning Co.....Office—Keokuk. C-pickles.
 Factories—Keokuk, Ft. Madison.
 Lake Mills Canning Co.....Lake Mills. A-C.

Marshall Canning Co.....Office—Marshalltown. A-B-C-E-F-I-J.
 Factories—Marshalltown, Ackley, K-N-I-j-p-r-t.
 Hampton, Roland, Waverly.
 Merrell Canning Co.....Harlan. A.
 Morrell & Co., John.....Ottumwa. M-u.
 Osee Food Products Co.....Office—Nebraska City, Neb. A.
 Factory—Hamburg.
 Rath Packing Co., The.....Waterloo. M.
 Red Oak Canning Co.....Red Oak. A.
 Riverside Canning Co.....Hamburg. C-D-E-F-k-p-vinegar.
 Sac City Canning Co.....Office—Sac City. A-F.
 Factories—Sac City, Storm Lake.
 Smith & Co., P. G.....Office—Keokuk. C-P-pickles.
 Factories—Croton, Montrose.
 Tripoli Canning Co.....Tripoli. A.
 Virden Canning Co.....Forest City. A.
 Waterloo Canning Co.....Office—Waterloo. A.
 Factories—Waterloo, Dyersville, Dysart.
 Weir Canning Co.....Toledo. A.
 Zeigler Canning & Preserving Co.....Muscatine. C-F-K-p-t.

NEBRASKA

Auburn Canning Co.....Auburn. A.
 Blair Canning Co.....Blair. A.
 Columbus Canning Co.....Office—Story City, Iowa. A.
 Factory—Columbus.
 Cudahy Packing Co.....Office—Chicago. M.
 Factory—Omaha.
 Dold Packing Co., Jacob.....Office—Buffalo, N. Y. M.
 Factory—Omaha.
 Farrell Syrup Co., D. H.....Omaha. w.
 Fremont Canning Co.....Office—Atlantic, Iowa. A.
 Factory—Fremont.
 Grand Island Canning Co.....Office—Story City, Iowa.
 Morris & Co.....Office—Chicago. M-I.
 Factory—Omaha.
 Norfolk Packing Co.....Norfolk. A-C-F-J-K-I-p-r.
 Osee Food Products Co.....Nebraska City. A-C-D-E-F-I-J-K-I-j-p-r.

CREAMERY STATISTICS OF IOWA

Showing Pounds of Milk and Cream Received, Pounds of Butter Made and Disposition of Same, So Far as Reported

Counties	No. of Creameries Reported	Pounds of Milk Received	Pounds of Cream Received	Pounds of Butter Manufactured	Pounds Sold to Patrons	Pounds Sold in Iowa	Pounds Sold Outside of Iowa	Total Value
Adair	2	6,226	1,850,460	741,864	41,494	94,395	366,763	\$ 281,888.91
Adams	1		210,265	82,759	8,000	15,000	59,759	36,413.96
Allamakee	7		8,064,302	2,675,565	69,391	156,533	2,854,251	1,038,556.38
Appanoose	2	539,384	45,194	386,363	9,713	211,750	162,000	140,000.82
Audubon	5	133,203	2,360,862	941,134	52,630	133,947	871,283	356,333.13
Benton	3		1,535,713	629,670	15,132	5,064	479,480	250,487.12
Black Hawk	9	16,233,435	7,250,007	2,375,354	122,402	833,897	1,618,655	929,162.92
Boone	3	2,889,289	541,039	321,596	14,007	236,737	79,129	132,624.88
Bremer	22	50,138,309	5,417,192	3,570,968	246,307	325,270	3,000,475	1,331,595.91
Buchanan	3	12,648,747	10,500,224	4,167,295	296,458	413,114	3,548,945	1,688,761.05
Buena Vista	4	1,148,807	2,161,324	820,900	55,230	190,027	371,154	304,645.78
Butler	11	5,582,251	6,494,213	2,348,823	106,406	132,063	2,091,012	938,020.63
Calhoun	4	71,800	1,067,018	482,272	13,385	150,188	309,469	196,457.00
Carroll	8	794,272	3,596,372	1,256,461	48,478	326,737	2,422,735	1,059,743.40
Cass	2		4,470,400	1,600,180	87,977		1,533,656	637,613.63
Cedar	6		3,600,129	1,447,110	74,829	618,863	753,712	564,927.61
Cerro Gordo	10	6,568,753	11,019,225	4,041,224	159,178	353,267	3,534,888	1,603,294.03
Cherokee	5		496,328	166,400	6,837	112,388	45,641	62,877.08
Chickasaw	1	3,567,000	12,494,428	2,988,004	149,806	130,702	2,708,106	1,109,499.30
Clarke	9		191,524	71,033	30,873		90,872	60,850.86
Clay	4		819,568	312,231	25,766	66,200	220,265	129,766.24
Clayton	17	19,371,961	13,050,434	5,216,969	206,730	377,293	4,641,363	2,018,651.00
Clinton	8	4,149,532	12,367,261	2,384,000	69,945	425,318	2,063,688	1,092,739.85
Crawford	3		5,490,000	2,261,120			2,531,500	819,000.00
Dallas	3	10,806,006	1,000,800	406,454	60,879	308,321	77,263	173,478.67
Decatur	1		520,400	191,916		146,912	45,000	89,000.00
Davis	1		622,800	262,000	4,000	20,000	238,000	87,000.00
Delaware	12	4,126,546	9,130,499	3,253,775	904,154	158,641	2,887,436	1,001,617.79
Des Moines	5	45,151	2,729,750	244,941	38,297	260,644	600,253	401,806.00
Dickinson	3		12,182,533	375,564	37,806		328,425	170,145.08
Dubuque	15	9,780,325	14,837,003	5,629,567	131,013	676,604	5,521,371	2,198,679.21
Emmet	3	278,109	1,754,430	573,044	44,462	78,234	550,358	233,111.96
Fayette	18	31,185,541	11,517,614	5,028,064	226,736	341,697	4,450,257	2,009,200.47
Floyd	4	15,634	3,576,266	1,118,866	35,690	420,433	664,442	455,291.21
Franklin	7	32,960	4,400,802	1,318,664	108,630	69,361	1,116,568	532,456.84
Greene	3	387,363		101,185		89,185	12,000	40,470.00
Grundy	1	713,078	16,476,362	1,222,172	67,306	135,323	932,565	417,697.97
Guthrie	1		1,906,356	730,800	25,908	336,449	127,653	292,339.75
Hamilton	1	1,049,007	1,213,706	621,302	56,790	233,627	329,625	166,747.76
Hancock	6	66,836	5,927,754	2,864,491	91,974	147,064	1,815,553	813,896.47
Hardin	1	473,659	11,935,374	4,309,306	151,016	239,583	3,073,813	1,715,301.33
Harrison	1		190,113	48,908		48,650		18,463.14
Henry	2	60,000	300,000	141,000	2,300	100,000	38,700	62,000.00
Howard	9		8,603,810	2,735,352	88,267	157,123	2,463,882	900,706.08
Humboldt	3		801,033	312,102	36,608	87,844	197,382	183,412.90
Iowa	1		910,000	318,565	19,276	164,549	134,740	121,008.17
Jackson	11	540,815	7,383,365	2,754,055	129,331	256,849	2,388,867	1,056,864.14
Jasper	1		304,110	115,238	445	91,767	30,023	56,694.01
Jefferson	1	27,000	381,300	154,835	5,760	149,075		98,127.40
Johnson	1		116,500	49,114	129	23,820	22,692	20,627.88
Jones	5	115,115	7,019,961	2,350,428	137,165	231,211	1,206,222	1,017,967.77
Keokuk	3		473,451	229,505		42,194	187,163	83,590.51
Kossuth	13	1,000,463	14,607,003	2,480,081	207,494	237,182	2,043,862	904,411.50
Lee	5	1,500,000	7,386,468	2,664,816	32,000	231,225	1,705,004	1,169,526.08
Linn	5	185,737	9,106,137	3,412,167	104,067	716,012	2,582,501	1,389,312.39
Louis	1		9,051	4,018		4,018		1,270.29
Lucas	1							
Lyon	3	92,257	1,406,364	545,431	36,330	45,969	439,924	205,714.84
Madison	1		208,000	75,301	2,400	66,802	4,096	32,007.73
Mahaska	5	319,078	1,750,990	673,022	320,769	317,853	35,000	256,062.82
Marion	2	306,822	1,063,003	450,372	238	254,444	191,821	167,673.61
Mechanick	1		844,000	1,603,046	69,040	369,880	1,182,460	645,473.12
Mills	2		755,721	296,418	40,377	12,760	222,907	110,456.30
Mitchell	7		8,306,530	2,418,091	140,273	124,079	2,153,570	963,794.21
Montgomery	3	476,263	1,346,438	446,848	2,000	173,655	247,700	201,225.11
Morgan	2	54,151	2,866,665	1,367,732	24,230	246,692	1,233,419	601,294.56
O'Brien	1		2,908,413	1,250,738	45,138	181,943	381,943	181,943.00
Oceola	1	57,213	2,234,840	872,746	58,108	89,463	736,175	337,832.84
Page	8	50,000	3,562,375	1,161,264	9,721	15,336	1,089,732	400,000.10
Palo Alto	3	154,023	2,944,125	1,406,000	119,550	164,901	1,204,965	609,768.50
Pocahontas	2		1,066,346	416,886	7,091	146,327	261,478	178,055.94
Plymouth	1	742,780	37,276	15,318		280	12,029	5,498.36
Polk	4		16,670,943	6,695,610		2,622,736	4,340,234	2,022,319.20
Pottawattamie	1	24,920	3,096,400	1,128,012		333,099	733,900	449,357.91
Poweshiek	1	192,167	1,178,681	472,079	3,300	187,809	311,071	181,716.40
Sac	1	251,247	1,222,300	460,330		5,000	306,330	176,130.00
Scott	4		5,125,390	2,016,090			993,896	1,051,141
Shelby	3		361,560	196,832	16,588	67,817	91,824	66,091.76
Sioux	7	968,237	11,119,861	4,063,275	302,186	284,831	3,514,608	1,562,608.02
Story	8	1,115,943	4,062,242	1,505,767	123,957	524,233	857,577	606,541.68
Tama	2	24,000	3,278,956	1,374,141	15,584	37,000	1,361,297	563,784.00
Taylor	1		645,080	236,327	13,471	44,156	181,900	88,684.99
Union	1		6,331,055	2,234,889	4,135	310,140	1,924,188	1,000,541.33
Wapello	3	215,000	36,572,430	3,726,741	700	369,426	3,177,143	1,354,015.00
Warren	1		213,088	91,647	532	79,506	8,569	36,000.80

DAIRY AND FOOD DIVISION OF

THE AGRICULTURAL DEPARTMENT

CREAMERY STATISTICS OF IOWA—Continued

Counties	No. of Creameries Reported	Pounds of Milk Received	Pounds of Cream Received	Pounds of Butter Manufactured	Pounds Sold to Patrons	Pounds Sold in Iowa	Pounds Sold Outside of Iowa	Total Value
Washington	2		544,427	243,500		210,008	33,554	99,081.60
Wayne	1		3,688,063	1,432,667	7,240	55,111	1,300,336	540,074.80
Webster	2	52,306	1,822,417	747,379	6,200	637,246	153,083	297,188.71
Winnebago	8	150,974	7,510,099	2,021,594	235,476	121,105	2,166,272	1,015,890.73
Winnechick	10	496,519	11,550,150	3,555,247	80,034	212,703	3,554,322	1,397,006.73
Woodbury	5	13,128,737	25,303,668	27,150,306	1,804	940,762	26,395,201	11,350,588.53
Worth	9	82,704	5,543,303	1,944,482	121,302	80,324	1,547,567	785,611.72
Wright	4	52,849	2,848,524	926,588	62,014	304,400	670,883	300,570.50
Total	448	306,872,014	453,437,707	165,830,574	5,337,065	22,061,283	134,404,012	\$66,334,150.92

The counties of Monroe, Fremont, Ida, Monona, Ringgold and Van Buren, having no creameries, did not report.

CREAMERY LIST

Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Adair County—					
Adair Creamery Co.	Adair	J. W. Crow	Adair	J. T. Bryan	Adair
Greenfield Creamery Co.	Greenfield	W. A. Foster	Greenfield	R. H. McCrea	Greenfield
Adams County—					
Prescott Creamery	Prescott	Chris Lundhigh	Prescott	Chris Lundhigh	Prescott
Allamakee County—					
Arete Spring Creamery Asso.	Quandahl, 9 mi. S. of Spring Grove, Minn.	O. O. Flatberg	Spring Grove, Minn.	Olaf Goodno	Spring Grove, Minn.
Calhoun Creamery Co.	Lansing, 6 mi. W.	T. E. Kerdt	Church	Floyd Ferris	Church
Farmers Co-op. Creamery Co.	Waterville	O. R. Haas	Waterville	Clarence Schmieder	Waterville
Farmers Waukon Creamery Co.	Waukon	Talief Johnson	Waukon	A. H. Hancemeier	Waukon
Ludlow Co-op. Creamery	Waukon, 7 mi. S. W.	O. J. Sanderman	Waukon	Victor W. Johnson	Waukon
New Albin Co-op. Creamery Co.	New Albin	J. E. Welsh	New Albin	Jacob W. Rouser	New Albin
Postville Farmers Co-op. Cry. Co.	Postville	H. T. Hangartner	Postville	Vera Sires	Postville
Appanoose County—					
Centrox Dairy	Centerville	G. S. Armstrong	Centerville	Walter Olson	Centerville
Milant Ice Cream Co.	Centerville	Gus Milant	Centerville	Ralph M. Boyer	Centerville
Audubon County—					
Audubon Creamery Co.	Audubon	R. L. Herbert	Audubon	Johannes Johanneson	Audubon
Audubon Township Creamery Asso.	Exira, 6 mi. E.	L. P. Nelson	Exira	L. P. Nelson	Exira
Crystal Springs Cry. Co.	Kimballtown	L. H. Laurisen	Kimballtown	Chris. D. Nelson	Kimballtown
Exira Creamery Co.	Exira	H. A. Nelson	Exira	Jens P. Jensen	Exira
Sharon Creamery Co.	Audubon	M. Nelson	Audubon	M. Nelson	Audubon
Benton County—					
Farmers Creamery	Belle Plaine	Peter Thuesen	Belle Plaine	Peter Thuesen	Belle Plaine
Model Creamery	Newhall	Wm. Gardeman	Newhall	H. J. Stelling	Newhall
Garrison Co-op. Cry.	Garrison	J. A. Ridenour		Earl Morris	Garrison
Black Hawk County—					
Benson Co-op. Creamery Co.	Cedar Falls	P. A. Lund	Cedar Falls	J. F. Lorenzen	Cedar Falls
Cedar Falls Creamery Co.	Cedar Falls	J. M. Seidenfieb	Cedar Falls	Geo. Holm	Cedar Falls
Central Creamery Co.	Waterloo	E. A. Brandes	Waterloo	Albert Stohkopf	Waterloo

CREAMERY LIST—Continued.

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DAIRY AND FOOD DIVISION OF

THE AGRICULTURAL DEPARTMENT

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Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Orain Creek Creamery	Denver, 6 mi. S. E.	Wm. Meier	Denver	Wm. Meier	Denver
C. A. Fosse Creamery	LaPorte City	C. A. Fosse	LaPorte City	H. P. Anderson	LaPorte City
Hudson Co-op. Dairy Ass'n.	Hudson	H. Lafrenz	Hudson	Wm. McFarlane	Hudson
Mt. Vernon Creamery	Cedar Falls	H. H. Mosch	Cedar Falls	Ed Palmer	Cedar Falls
Waterloo Co-op. Dairy	Waterloo	E. K. West	Waterloo	R. W. Chadwick	Waterloo
Farmers Creamery Co.	Dunkerton	Thomas Fisher	Dunkerton	Thos. Sadler	Dunkerton
Boone County—					
Peerless Ice Cream & Butter Co.	Boone	J. P. Sammin	Boone	V. F. Brunner	Boone
Rosendale Co-op. Creamery Co.	Story City, 7 mi. W., 1 1/2 N.	Benj. Anderson	Jewell	E. P. Conway	Story City
Boone Dairy, Inc.	Boone	R. E. Fowler	Boone	Roy Bilibrey	Boone
Bremer County—					
Artesian Creamery Co.	Waverly, 7 mi. E.	Henry Seegers	Waverly	C. J. Meier	Waverly
Bremer Creamery Co.	Bremer	Fred Christophel	Waverly	T. H. Black	Bremer
Olinax Creamery	Sumner	H. Sel	Sumner	H. P. Dettmer	Sumner
Denver Creamery Co.	Denver	W. J. Moehling	Denver	W. J. Spurbach	Denver
Excelsior Creamery Co.	Sumner	Geo. Rockdaschel	Sumner	Louie Ehler	Sumner
Frederika Creamery	Denver, 3 mi. E.	H. O. Griess	Denver	C. F. George	Denver
Fremont Creamery Co.	Frederika	L. H. Alcock	Tripoli	J. Ambrose	Frederika
Gilt Edge Creamery Co.	Tripoli, 3 mi. S. E.	C. B. Chapin	Tripoli	C. W. Zell	Tripoli
Grove Hill Creamery Co.	Plainfield	B. F. Bentley	Plainfield	J. O. Nichols	Plainfield
Janeville Creamery Co.	Oran, 6 1/2 mi. E. & S.	J. J. Kane	Fairbank	Robert Wagner	Fairbank
Klinger Co-op. Creamery Co.	Janeville	B. O. Squires	Janeville	B. O. Squires	Janeville
Kutlle Creamery Co.	Readlyn, 3 mi. S.	Henry Otto	Readlyn	Henry Segebarth	Fairbank
Little Valley Creamery Co.	Readlyn	Chas. Kruger	Readlyn	W. H. Bowers	Readlyn
Porters Siding Creamery Co.	Tripoli	W. H. Barry	Tripoli	Ed. Henning	Sumner
Readlyn Creamery Co.	Readlyn	H. A. Griess	Readlyn	Albert Kruse	Readlyn
Siegel Creamery Co.	Tripoli, 6 mi. N. W.	H. T. Bokrow	Waverly	E. H. Rohrsen	Waverly
Spring Fountain Creamery Co.	Sumner	G. C. Schwake	Sumner	Fred Bremer	Sumner
Sumner Creamery Co.	Sumner	Geo. Westcott	Sumner	Albert E. Zierath	Sumner
Tripoli Creamery Co.	Tripoli	B. B. Bennett	Tripoli	H. C. Ladage	Tripoli
Washington Creamery	Waverly	P. M. Oretzmeier	Waverly	C. L. Gamm	Waverly
Western Douglas Creamery	Bremer, 6 mi. N., 1 mi. W.	Wm. Oberken	Waverly	Geo. Heine	Waverly

Buchanan County—					
Farmers Co-op. Creamery Co.	Fairbank	Harry Lyon	Fairbank	E. J. Prunus	Fairbank
Farmers Creamery Ass'n.	Aurora	W. I. Warren	Aurora	Geo. Mittlstaedt	Aurora
Hazleton Farmers Creamery Co.	Hazleton	C. E. Biede	Hazleton	E. A. Chue	Hazleton
Jesup Creamery Co.	Jesup	D. E. Rogers	Jesup	A. D. Comfort & L. Sogard	Jesup
Lamont Creamery Ass'n.	Lamont	George H. Thompson	Lamont	Nels Hansen	Lamont
Rowley Farmers Co-op. Creamery Co.	Rowley	A. E. Sloan	Walker	Chas. Carly	Rowley
Waples Valley Creamery	Independence	N. Nielsen	Independence	Roy Stewart	Independence
Winthrop Creamery	Winthrop	I. C. Guthrie	Winthrop	G. C. Jensen	Winthrop
Buena Vista County—					
Clover Leaf Dairy	Alta	L. H. Hatch	Alta	Earl Post	Alta
Farmers Creamery & Produce Co.	Newell	E. P. Kruse	Newell	N. C. Olson	Newell
Storm Lake Produce Co.	Storm Lake	L. W. McCreery	Storm Lake	L. W. McCreery	Storm Lake
Sanitary Dairy	Storm Lake	Chas. F. Keister	Storm Lake	Floyd Livingston	Storm Lake
Butler County—					
Aplington Creamery	Aplington	J. B. Morek	Aplington	J. B. Morek	Aplington
Clarksville Creamery	Clarksville	J. W. Stine	Clarksville	M. A. Jones	Clarksville
Community Creamery	Parkersburg	C. J. Rohde	Parkersburg	C. J. Rohde	Parkersburg
Dumont Creamery Co.	Dumont	J. E. Vander	Dumont	J. E. Vander Meier	Dumont
Farmers Co-operative Cry. Co.	Allison	Vm. Allen	Allison	A. L. Nicholas	Allison
Farmers Co-op. Creamery Co.	Greene	J. Jacobson	Greene	J. Jacobson	Greene
Jefferson Creamery Co.	Shell Rock	E. E. Brooks	Shell Rock	E. E. Brooks	Shell Rock
New Hartford Farmers Co-op. Cry.	New Hartford	E. F. Perrin	New Hartford	C. M. Reeve	New Hartford
Shell Rock Creamery Ass'n.	Shell Rock	C. D. Adair	Shell Rock	F. D. Daniels	Shell Rock
White Rose Creamery	Austinville	S. L. Patterson	Austinville	Marinus Andersen	Austinville
Farmers Co-op. Cry.	Kesley	Rembo Johnson	Dumont	Fred Carols	Kesley
Calhoun County—					
A. Baird & Co.	Lohrville	I. J. Stamen	Lohrville	J. J. Stamen	Lohrville
Carroll Creamery Co.	Manson	S. P. Peterson	Somers	A. C. Mathis	Manson
Cedar Creek Creamery Co.	Somers	O. J. Schultz	Pomerooy	John Doose	Somers
Pomerooy Creamery Co.	Pomerooy			George Proom	Pomerooy
Carroll County—					
Carroll Creamery Co.	Carroll	C. C. Roberts	Sac City	Geo. Marget	Carroll
Dedham Creamery Co.	Dedham	H. Lauridsen	Dedham	H. Lauridsen	Dedham
Farmers Co-op. Creamery Co.	Breda	A. J. Polkin	Breda	J. E. DeCharme	Breda
Halbur Creamery	Halbur	M. J. Wagner	Halbur	M. J. Wagner	Halbur
Jensen Creamery	Coon Rapids	Jens Jensen	Coon Rapids	Wm. Rogers	Coon Rapids
Manning Cry. Co.	Manning	I. A. Erick	Manning	Paul Border	Manning
Rose Valley Creamery	Roselle	M. Friedman	Carroll	M. Friedman	Carroll
Templeton Creamery Co.	Templeton	John Bierl	Templeton	Jos. E. Klemmer	Templeton

CREAMERY LIST—Continued.

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DAIRY AND FOOD DIVISION OF

Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Cass County—					
Central Iowa Poultry & Egg Co.....	Atlantic	E. H. Busse, Mgr.	New York	Victor Hatteson	Atlantic
Swift & Co.....	Atlantic	C. A. Peacock	Chicago, Ill.	T. E. Kelley	Atlantic
Cedar County—					
Tipton Creamery Co., Inc.....	Tipton	C. J. Barth	Tipton	Otto Wichman	Tipton
Durant Farmers Creamery Ass'n.....	Durant	A. R. Lamp	Durant	H. G. Davis	Durant
Golden Star Creamery Ass'n.....	Bennett	W. H. Kroeger	Bennett	R. G. Weeks	Bennett
Lowden Farmers Mut. Co-op. Cry. Ass'n.....	Lowden	Kossuth Pauls	Lowden	W. L. Sloan	Lowden
Massillon Co-op. Creamery.....	Massillon	R. H. Schneider	Massillon	R. L. Little	Massillon
Sidwell Dairy Co.....	West Branch	Albert R. Sidwell	Iowa City	W. E. Hunter	West Branch
Cerro Gordo County—					
Dougherty Co-op. Creamery Co.....	Dougherty	Miss Luella Murphy	Dougherty	O. A. Jensen	Dougherty
Farmers Mutual Co-op. Co.....	Clear Lake	W. S. Wilcox	Clear Lake	S. S. Hudson	Clear Lake
E. B. Higley Co.....	Mason City	C. E. Behnke	Mason City	R. E. Adams	Mason City
Plymouth Co-op. Creamery Co.....	Plymouth	F. O. Siegfried	Plymouth	M. Mikkelson	Plymouth
Rockwell Co-op. Creamery Co.....	Rockwell	Henry Donner	Rockwell	Paul Smith	Rockwell
Swaileale Creamery.....	Swaileale	Geo. A. Henry Assink	Swaileale	Henry Donner	Swaileale
Thornton Creamery.....	Thornton	H. H. Olenburg	Thornton	Henry Assink	Thornton
Ventura Farmers Creamery Co.....	Ventura	Hermanson Bros.	Mason City	Otto Spies	Ventura
Hermanson Bros.....	Mason City	Glen Swartz	Mason City	Hermanson Bros.	Mason City
Farm Products Store.....	Mason City			Glen Swartz	Mason City
Cherokee County—					
Cherokee Creamery Co.....	Cherokee	John H. Goeb	Cherokee	Emerson Nelson	Cherokee
Chickasaw County—					
Alta Vista Farmers Cry. Ass'n.....	Alta Vista	Geo. J. Scholz	Alta Vista	T. F. Shipman	Alta Vista
Farmers Co-op. Creamery Ass'n.....	Nashua	A. W. Blinn	Nashua	Monroe Bullis	Nashua
Fredericksburg Butter Factory.....	Fredericksburg	J. D. Treplett	Fredericksburg	R. D. Sweet	Fredericksburg
Ionia Farmers Creamery Ass'n.....	Ionia	C. B. Moody	Ionia	Joe Herzog	Ionia
Jerico Farmers Mutual Co-op. Ass'n.....	Jerico	Anton Sanderson	New Hampton	P. W. Nelson	New Hampton
Lawler Creamery Ass'n.....	Lawler	R. E. Nulty	Lawler	John Flaskerud	Lawler
New Hampton Farmers Cry. Ass'n.....	New Hampton	Deising	New Hampton	D. W. Mohler	New Hampton
Saunder Farmers Co-op. Cry. Ass'n.....	Lawler	Henry Ellingson	Lawler	Edward Peter	Lawler
Williamstown Creamery Ass'n.....	New Hampton	C. M. Burnmaster	Fredericksburg	Aug. Bremer	New Hampton
Clarke County—					
Patterson Creamery.....	Oscola	B. H. Burns	Oscola	E. M. Patterson	Oscola
Clay County—					
Farmers Creamery Co.....	Dickens	Geo. J. Southard	Dickens	Geo. J. Southard	Dickens
The Langdon Mut. Co-op. Cry. Ass'n.....	Langdon	Mrs. John Caldwell	Langdon	Emil Jensen	Langdon
Postoria Co-op. Cry. Co.....	Postoria	Geo. F. Dickens	Postoria	E. O. Ballman	Postoria
Webb Creamery Co.....	Webb	Birdsall & Anderson	Webb	Harry Stowe	Webb
Clayton County—					
Elkader Creamery.....	Elkader	J. T. Leonard	Elkader	J. T. Leonard	Elkader
Farmersburg & St. Olaf Co-op. Cry.....	St. Olaf	Wm. Fuhrman	St. Olaf	C. C. Bomberger	St. Olaf
Farmers Co-op. Creamery Co.....	Edgewood	H. W. Putz	Edgewood	G. Stursi	Edgewood
Farmers Co-op. Creamery Co.....	McGregor	John O. Heitman	McGregor	D. H. Clymer	McGregor
Farmers Creamery Co.....	Osterdock	John White	Garber	Fred Havens	Osterdock
Garber Farmers Co-op. Creamery.....	Garber	Jas. McLane	Garber	W. C. Johnson	Garber
Garnaville Creamery Co.....	Garnaville	A. J. Kregel	Garnaville	P. W. Hessel	Garnaville
P. H. Hatch Co.....	Edgewood	P. H. Hatch	Edgewood	W. I. Dilger	Edgewood
Littleport Farmers Co-op. Cry. Co.....	Littleport	G. O. Ruegnitz	Elkport	Earl Batchelder	Littleport
Luana Farmers Co-op. Cry. Co.....	Luana	Elliott Nelson	Luana	Ben. Gulsvig	Luana
Millville Creamery Co.....	Millville	H. G. Friedlein	Turkey River	H. D. Ash	Turkey River
Muelier's Dairy.....	Guttenburg	Fred Mueller	Guttenburg	Henry Torrey	Guttenburg
Star Creamery Co.....	No. Buena Vista	Mat Ruden	No. Buena Vista	P. J. Vanaakine	No. Buena Vista
Strawberry Point Par. Cry. Ass'n.....	Strawberry Pt.	A. E. Olinger	Strawberry Pt.	Otto F. Weger	Strawberry Pt.
Union Farmers Co-op. Cry. Co.....	Monona	John Sabbann	Monona	P. A. Jordahl	Monona
Volga Farmers Co-op. Creamery.....	Volga City	A. L. Moats	Strawberry Pt.	F. F. Gernand	Volga City
Volga Valley Creamery Co.....	Mederville	A. B. Dittmer	Strawberry Pt.	G. T. Olinger	Mederville
Clinton County—					
Charlotte Creamery Co.....	Charlotte	Martin Nielsen	Charlotte	Martin Nielsen	Charlotte
Clinton County Central Cry.....	DeWitt	O. C. Capper	De Witt	O. C. Capper	De Witt
Farmers Co-op. Cry. Co.....	Toronto	M. G. Yale	Toronto	Leroy C. Hansen	Toronto
Farmers Co-op. Cry. Co.....	Wheatland	A. G. Templeton	Chicago	O. R. Ball	Wheatland
Swift & Co.....	Clinton	Swift & Co.	Chicago	W. C. Cox	Clinton
Welton Creamery.....	Welton	C. B. Berst	Welton	C. B. Berst	Welton
Oak Grove Dairy.....	Clinton	John Gideonsen	Clinton	Sonke Hansen	Clinton
Sanitary Butter Shop.....	Clinton	Elmer Primoth	Clinton	Ed. Anderson	Clinton
Crawford County—					
Armour Creameries.....	Denison	J. F. Yeale	Denison	R. C. Wiblishauser	Denison
Dallas County—					
Dexter Creamery.....	Dexter	Dexter Cry. Co.	Dexter	W. L. McMenamin	Dexter
Perry Milk Products Co.....	Perry	H. J. Ryner	Perry	John Howarth	Perry
Davis County—					
Campbell Dairy Company.....	Bloomfield	R. C. Campbell	Bloomfield	W. D. Clayton	Bloomfield

THE AGRICULTURAL DEPARTMENT

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CREAMERY LIST—Continued.

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DAIRY AND FOOD DIVISION OF

THE AGRICULTURAL DEPARTMENT

Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Deatur County—					
Hutchinson Cream Co.	Leon	Hutchinson Cream Co.	Des Moines	D. W. Holly	Leon
Delaware County—					
Colesburg Co-op. Creamery Co.	Colesburg	Robert A. Gull	Colesburg	Walter Shaffer	Colesburg
Earlville Creamery	Earlville	I. S. Hutton	Earlville	Kenneth Klaus	Earlville
Farmers Co-op. Creamery Co.	Greeley	W. S. Bissell	Manchester	C. N. Baehler	Greeley
Farmers Creamery Co.	Ryan	C. P. Wendt	Ryan	L. W. Ross	Ryan
Farmers Mutual Creamery Co.	Sand Springs	E. A. Dunlap	Hopkinton	John L. Batchelder	Hopkinton
Hazel Green Creamery Co.	Ryan, 6 mi. E.	Daniel King	Delhi	Alex. Graham	Delhi
Hopkinton Co-op. Creamery Ass'n	Hopkinton	H. M. Reeve	Hopkinton	C. W. Rouse	Hopkinton
Manchester Co-op. Creamery Ass'n	Manchester	O. Bailey	Manchester	O. Bailey	Manchester
Masonville Creamery	Masonville	Krause & Guehring	Masonville	P. W. Krause	Masonville
Petersburg Farmers Cry. Co.	Petersburg	Joseph Dingbaum	Earlville	J. E. Taylor	Dyersville
Silver Spring Creamery Co.	Delhi	A. L. Clark	Delhi	A. C. Henshrat	Delhi
Thorpe Creamery	Thorpe	A. E. Dunly	Manchester	Matt McDowell	Manchester
Des Moines County—					
Peoria Creamery Co.	Burlington	F. E. Rice	Peoria, Ill.		
Burlington Farmers Merc. Co.	Burlington	Harry Thomas	Burlington	W. R. Johnson	Burlington
Burlington Sanitary Milk Co.	Burlington	A. D. Reppert	Burlington	Fred Thompson	Burlington
Dickinson County—					
Lake Park Co-op. Creamery Co.	Lake Park	J. G. Chrysler	Lake Park	A. G. Kruger	Lake Park
Milford Farmers Butter & Cheese Ass'n	Milford	Fred W. Born	Milford	Fred W. Born	Milford
Spirit Lake Produce Co.	Spirit Lake	H. O. Dean & I. N. Clark	Spirit Lake	Rudolph Ipsen	Spirit Lake
Dubuque County—					
Balltown Farmers Co-op. Cry. Co.	Balltown	L. J. Sigwarth	Waupeton	Al Barker	Waupeton
Beatrice Creamery Co.	Dubuque	Beatrice Cry. Co.	Chicago, Ill.	Emil Donasch	Dubuque
Cascade Creamery Co.	Cascade	Charles T. Keen	Cascade	Claude Miller	Cascade
Farmers Golden Star Cry. Co.	Dyersville	Ralph Burkle	Dyersville	R. V. Blaine	Dyersville
Five Point Mutual Cry. Co.	Durango	Frank Fischer	Durango	Frank McLean	Durango
Globe Creamery Co.	Luxemburg	John Langel	Near Vienna	A. P. Schmudlach	Turkey River
Hawkeye Farmers Creamery	Epworth	Samuel G. Streif	Epworth	H. E. Rooker	Epworth
Hickory Valley Creamery Co.	Farley	Wm. Oberbroeckling	New Vienna	John Sadler	Farley
Holy Cross Creamery Co.	Holy Cross	George Thelen	Gratiot	John F. Dawson	No. Buena Vista
Iowa Dairy Co.	Dubuque	A. Fuchsch	Dubuque	Harry E. Williamson	Dubuque
New Vienna Central Cry. Co.	New Vienna	J. F. Smith	New Vienna	M. O. Burckert	New Vienna
Sanitary Milk Co.	Dubuque	Edward Vrerberg	Dubuque	Paul D. Pockles	Dyersville
Sherrill Mutual Co-op. Cry. Ass'n	Sherrill	F. C. Boley	Wm. Brossel	Wm. Brossel	Specht's Ferry
Swift & Co.	Dubuque	C. A. Peacock	Chicago, Ill.	Harry J. Long	Dubuque
Worthington Farmers Co-op. Cry. Co.	Worthington	Geo. Hummer	Cascade	Ulrich Prader	Worthington
Emmet County—					
Farmers Creamery Co.	Wallingford	O. O. Retsell	Wallingford	Wm. Helgason	Wallingford
Hansen's Milk Co.	Etherville	Hanson & Shrader	Etherville	H. H. Hansen	Etherville
Ringsted Co-op. Creamery Co.	Ringsted	S. C. Holen	Ringsted	J. C. Jensen	Ringsted
Fayette County—					
Alpha Farmers Co-op. Cry.	Alpha	A. A. Belknap	Alpha	W. A. Rizer	Alpha
Center Valley Creamery Ass'n	Sumner	F. M. Messern	Sumner	R. J. Allenstein	Sumner
Clermont Valley Creamery Co.	Clermont	J. W. Miller	Clermont	C. H. Kolsrud	Clermont
Elgin Farmers Dairy Co.	Elgin	Melchior Luchsinger	Elgin	Ed. Hanson	Elgin
Farmers Creamery Co.	Arlington	F. W. Bates	Arlington	L. O. Barnes	Arlington
Farmers Co-op. Creamery	St. Lucas	G. H. Hackman	St. Lucas	A. E. Mitchell	St. Lucas
Fayette Mutual Cry. Ass'n	Fayette	Peter E. Jubb	Fayette	C. H. Pinch	Fayette
German Creamery Co.	Westgate	W. H. Buhrow	Westgate	Louis Wills	Westgate
Harlan Farmers Mut. Co-op. Cry. Co.	Maynard	Chester H. Paul	Maynard	Glen Mittelstadt	Maynard
Hawkeye Creamery Co.	Hawkeye	H. F. Hauth	Hawkeye	R. C. Wilson	Hawkeye
Osceola Farmers Creamery Co.	Osceola	J. L. Butler	Osceola	W. H. Harms	Osceola
Oran Creamery Co.	Oran	J. N. Getz	Oran	Will Diley	Oran
Richfield Creamery Co.	Sumner	Alfred Morf	Sumner	Nate Tibbets	Sumner
Riverside Mutual Cry. Ass'n	Wadena	J. H. Wilson	Wadena	L. C. Popenhagen	Wadena
Waucoma Farmers Co-op. Cry. Ass'n	Waucoma	H. E. Marron	Waucoma	J. T. Mogle	Waucoma
Westgate Co-op. Creamery Co.	Westgate	W. P. Klammern	Westgate	Albert Harnas	Westgate
West Union Farmers Cry. Co.	West Union	M. A. Hutchison	West Union	Geo. Haner	West Union
Farmers Co-op. Cry.	Randalla	J. B. Shaler	Randalla	L. H. Beach	Randalla
Floyd County—					
Charles City Creamery Co.	Charles City	W. G. Wargonesky	Charles City	Chas. Zierath	Charles City
Niles Creamery Co.	Colwell	Frank Brunner	Colwell	Earl F. Regel	Colwell
Nora Springs Cry. Co.	Nora Springs	Wm. McGuinness	Nora Springs	C. Erickson	Nora Springs
Rockford Co-op. Dairy Ass'n	Rockford	Peter J. Goetzinger	Rockford	Peter J. Goetzinger	Rockford
Franklin County—					
Farmers Co-op. Creamery Co.	Popejoy	A. A. Benson	Popejoy	T. McCabe	Popejoy
Farmers Creamery Co.	Alexander	W. F. Dunn	Alexander	W. H. Tinkley	Alexander
Hamilton Co-op. Creamery Co.	Coulter	Geo. Dohrmann	Hampton	John M. Hansen	Coulter
Lattimer Co-op. Cry. Co.	Lattimer	W. F. Meyer	Lattimer	R. Nelson	Lattimer
Sheffield Community Cry. Co.	Sheffield	D. J. Atkinson	Sheffield	H. J. Binger	Sheffield
Hansell Creamery Ass'n	Hansell	J. Blackford	Hansell	Elmer Gustafson	Hansell
E. E. Bryant	Hampton	E. E. Bryant	Hampton	Q. T. Ryan	Hampton

CREAMERY LIST—Continued

Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Greene County—					
Jefferson Creamery	Jefferson	M. E. Brunner	Jefferson	R. Pence	Jefferson
Grundy County—					
Reinbeck Farmers Cry.	Reinbeck	Wm. Matter	Reinbeck	Wm. Matter	Reinbeck
Beaver Center Creamery Co.	Stout	Andrew J. Meyer	Stout	T. E. Dilger	Stout
Buck Grove Creamery	Parkersburg	Ralph Slight	Aplington	John P. Perry	Aplington
Dike Creamery Co.	Dike	E. K. Andersen	Dike	P. P. Anderson	Dike
Fern Creamery Co.	Parkersburg	W. H. Hennings	Parkersburg	B. T. Soles	Stout
Grundy Center Creamery	Grundy Center	E. C. Kamoss	Grundy Center	R. L. Anderson	Grundy Center
Wellsburg Creamery	Wellsburg	H. G. Kramer	Wellsburg	E. M. Gidney	Wellsburg
Guthrie County—					
Casey Creamery Co.	Casey	Joe F. Oddy	Casey	Joe F. Oddy	Casey
Farmers Creamery & Produce Co.	Guthrie Center	Edith K. Lathrop	Guthrie Center	M. W. Bixby	Guthrie Center
Panora Co-op. Creamery Co.	Panora	W. G. Bailey	Panora	L. H. Rogers	Panora
Swift & Co.	Guthrie Center	Swift & Co.	Chicago	F. R. Angel	Guthrie Center
Stewart Creamery	Stuart	Wise & Wambold	Stuart	C. T. Wambold	Stuart
Hamilton County—					
Randall Farmers Creamery Co.	Randall	Oscar T. Servold	Randall	L. E. Nelson	Randall
Ellsworth Co-op. Cry.	Ellsworth	C. M. Anderson	Ellsworth	C. M. Anderson	Ellsworth
Webster City Cream Co.	Webster City	H. E. Forrester	Webster City	Clare Forrester	Webster City
Williams Creamery	Williams	P. W. Peterson	Williams	E. S. Uben	Williams
Hancock County—					
Britt Creamery Ass'n	Britt	Bert Lutzinger	Britt	G. G. Kolthoff	Britt
Crystal Creamery Co.	Crystal Lake	C. M. Ausham	Crystal Lake	R. O. Rasmussen	Crystal Lake
Farmers Co-op. Creamery Co.	Garner	S. C. Pollock	Garner	C. R. Conway	Garner
Kanawha Co-op. Creamery Co.	Kanawha	V. A. Blongren	Kanawha	M. G. Olson	Kanawha
Klemme Co-op. Creamery Co.	Klemme	Valentine Josten	Klemme	A. D. Ginner	Klemme
Woden Farmers Creamery Co.	Woden	J. W. Dawson	Woden	Geo. Eren	Woden
Hardin County—					
Alden Co-op. Creamery Co.	Alden	W. C. Granson	Alden	F. M. Kidd	Alden
Cleves Creamery Co.	Cleves	W. F. Sharp	Cleves	J. P. Sharp	Cleves
Concord Co-op. Creamery Co.	Garden City	E. P. Tydahl	Hobbad	Geo. Whitney	Garden City
Eldora Creamery	Eldora	H. Soballe	Eldora	Otto Nielsen	Eldora
B. R. Hadley Creamery.	Ackley	B. R. Hadley	Ackley	W. C. De Selm	Ackley
Hubbard Creamery Co.	Hubbard	C. W. Mannetter	Hubbard	F. L. Francisco	Hubbard
Iowa Falls Creamery	Iowa Falls	C. E. Foote	Iowa Falls	J. R. Jones	Iowa Falls
Swift & Co.	Iowa Falls	J. B. Smith	Iowa Falls	James Marshall	Iowa Falls
Farmers Co-operative Cry.	Eldora	C. T. Emmert	Eldora	F. D. Ford	Eldora
Harrison County—					
Dunlap Creamery Co.	Dunlap	Fred Major	Dunlap	Fred Major	Dunlap
Henry County—					
Frankhauser Dairy Co.	Mt. Pleasant	A. W. Frankhauser	Mt. Pleasant	C. R. Frankhauser	Mt. Pleasant
Mediapolis Butter & Ice Cream Co.	Mediapolis	Chas. S. Kands	Mt. Pleasant	Chas. S. Kands	Mt. Pleasant
Howard County—					
Cresco Creamery Co.	Cresco	W. H. Elsheid	Cresco	W. H. Elsheid	Cresco
Elma Co-op. Creamery Co.	Elma	Mary T. Dunton	Elma	Alphonus McLaughlin	Elma
Farmers Co-op. Creamery Ass'n	Chester	J. M. Hughes	Chester	C. C. Plummer	Chester
Farmers Co-op. Creamery	Protivin	Chas. F. Feud	Protivin	C. W. Chyle	Protivin
Farmers Creamery Co.	Cresco	Bernard McJester	Cresco	C. W. Nati	Cresco
Maple Leaf Co-op. Creamery Co.	Elma	D. Lane	Elma	N. W. Graf	Elma
Saratoga Creamery	Saratoga	Hans Larson	Saratoga	Hans Larson	Saratoga
Schley Creamery	Cresco	Fred Sanderson	Cresco	Fred Sanderson	Cresco
Whelan Produce Co.	Elma	J. P. Whelan	Elma	Earl Kelly	Elma
Humboldt County—					
Bode Creamery & Produce Co.	Bode	H. O. Olson	Bode	J. J. Boland	Bode
Humboldt Creamery Co.	Humboldt	W. F. Priebe, Jr.	Chicago, Ill.	Fred Koenig	Humboldt
Wacousta Creamery Co.	Ottosen	I. J. Shursen	Ottosen	L. J. Bremsen	Ottosen
Iowa County—					
Iowa Valley Cry. Co.	Marengo	A. H. Adv.	Marengo	R. G. Smoley	Marengo
B. L. Kell Creamery	Williamsburg	B. L. Kell	Williamsburg	B. L. Kell	Williamsburg
Victor Creamery	Victor	H. F. Lenoeker	Victor	Martin Walter	Victor
York Creamery	Williamsburg	Herman Schwarting	South Amara	William Anstell	Williamsburg
Jackson County—					
Andrew Co-op. Creamery Co.	Andrew	J. H. Mohlenhoff	Andrew	C. O. Van Rhein	Andrew
Bellevue Co-op. Creamery Co.	Bellevue	Geo. Jensen	Bellevue	O. H. Christenson	Bellevue
Farmers Union Co-op. Cry. Co.	Baldwin	Bruce Werden	Baldwin	T. Douglas May	Maquoketa
Maquoketa Produce Co.	Maquoketa	Earl Boys	Maquoketa	H. C. Koford	Maquoketa
Maquoketa Ice & Ice Cream Co.	Maquoketa	Ed Kirchhoff	Maquoketa	Lyle P. Widel	Maquoketa
Monmouth Creamery Co.	Monmouth	Elmer Koch	Monmouth	Elmer Koch	Monmouth
Preston Creamery Ass'n	Preston	Max Ehler	Preston	A. J. Spohn	Preston
St. Donatus Creamery	St. Donatus	J. L. Heinley	St. Donatus	Geo. F. Byrne	St. Donatus
Springbrook Creamery	Preston	A. J. Negus	Preston	Ed. Rubsamen	Preston
Sterling Creamery	Lamotte	Hoffman Creamery Co.	Lamotte	John M. Hoffman	Lamotte
Spragueville Co-op. Cry. Ass'n	Spragueville	Wm. F. H. Stro-meyer	Spragueville	Lyle E. Miller	Spragueville

CREAMERY LIST—Continued

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DAIRY AND FOOD DIVISION OF

THE AGRICULTURAL DEPARTMENT

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Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Jasper County— Dairyland Dairy Co.	Newton	Guy M. Lambert	Newton	Lee Kirkwood	Newton
Jefferson County— Linder-Iverson Co.	Fairfield	R. O. Linder	Fairfield	J. E. Gibson	Fairfield
Johnson County— Iowa City Cry. Co.	Iowa City	Wm. Ruppert	Iowa City	R. J. Saverd	Iowa City
Jones County— Amber Co-op. Creamery	Amber	P. B. Daly	Amber	O. Bailey	Amber
Anamosa Farmers Creamery	Anamosa	Burton Brown	Anamosa	M. E. Boals	Anamosa
Farmers Creamery Co.	Center Junction	Paul Paulsen	Center Jet	Harry Johnson	Center Jet
Farmers Mutual Cry. Co.	Langworthy	Henry Shaffer	Langworthy	E. H. Witt	Langworthy
Farmers Mutual Cry. Co.	Monticello	O. W. Brazelton	Monticello	J. D. Morey	Monticello
Keokuk County— C. E. Brown	What Cheer	C. E. Brown	What Cheer	Wm. Williams	What Cheer
Geo. M. Griffin Cry. Co.	Sigourney	C. A. & I. S. Griffin	Providence, R. I.	Sherley Scott	Sigourney
R. E. Gould & Son	Sigourney	R. E. Gould	Sigourney	R. E. Gould	Sigourney
Kossuth County— Algona Co-op. Creamery Co.	Algona	M. P. Christiansen	Algona	M. P. Christiansen	Algona
Bancroft Co-op. Creamery Co.	Bancroft	Jas. Vaske	Bancroft	H. E. Thies	Bancroft
Burt Co-op. Creamery Co.	Burt	M. E. Warner	Burt	Paul Macaulay	Burt
Farmers Co-op. Creamery Co.	Hobartton	A. B. Cruikshank	Algona	L. C. Strand	Hobartton
Ledyard Co-op. Creamery Co.	Ledyard	J. T. Heaney	Ledyard	Nick Behrends	Ledyard
Penton Creamery Co.	Penton	F. C. Bailey	Penton	Fred Kucker	Penton
Germanna Creamery Co.	Lakota	J. E. Smith	Lakota	H. Q. Jarchow	Lakota
Lone Rock Co-op. Creamery Co.	Lone Rock	W. J. Bourne	Lone Rock	L. G. Laidley	Lone Rock
Lotts Creek Co-op. Cry. Co.	Lone Rock	Otto Wichtendahl	Lone Rock	Harold Smith	Lone Rock
Swea City Co-op. Cry. Co.	Swea City	L. C. Knutsen	Swea City	L. C. Knutsen	Swea City
Titonka Co-op. Cry. Co.	Titonka	J. C. Newville	Titonka	John Povelsen	Titonka
Whittemore Farmers Cry. Co.	Whittemore	M. W. Fandel	Whittemore	O. J. Kloock	Whittemore
Wesley Farmers Cry. Co.	Wesley	John Hutchinson	Wesley	Vilgi Kulsholm	Wesley
Lee County— Ft. Madison Creamery Co.	Ft. Madison	B. K. Peters	Ft. Madison	L. L. Daugherty	Ft. Madison
Swift & Co.	Keokuk	C. A. Peacock	Chicago, Ill.	Dave Williamson	Keokuk
Producers Milk Products Co.	Ft. Madison	O. H. Logan	Ft. Madison	O. H. Logan	Ft. Madison
Linn County— Blue Valley Creamery Co.	Cedar Rapids	H. C. Darger	Chicago, Ill.	L. S. Holler	Cedar Rapids
Central City Creamery Co.	Central City	O. E. Crane	Central City	A. L. Binning	Central City
Linn County Farmers Mut. Cry. Ass'n.	Coggon	M. L. Ware	Coggon	Paul Wright	Coggon
Marion Dairy Store	Marion	C. E. Batchelder	Marion	Lee Dunlap	Marion
Lisbon Co-op. Cry.	Lisbon	M. M. Bennett	Lisbon	E. C. Casper	Lisbon
Springville Creamery Co.	Springville	E. George-H. C. Thompson	Springville	H. C. Thompson	Springville
Valley Farm Creamery	Central City	Wayne Henderson	Central City	Wayne Henderson	Central City
Walker Co-op. Creamery	Walker	Theo. W. Hawkinson	Walker	A. W. Willander	Walker
Louisa County— Weber & Huston	Columbus Jet.	G. W. Webber, J. H. Huston	Columbus Jet.	N. H. Brooks	Columbus Jet.
Lucas County— Hutchinson Ice Cream Co.	Charlton				
Lyon County— Farmers Creamery Co.	Inwood	L. B. Holland	Inwood	Jens Jensen	Inwood
Farmers Co-op. Creamery Co.	George	John S. Janesen	George	John J. Marx	George
Rock Rapids Creamery & Dairy Co.	Rock Rapids	J. De Rause	Rock Rapids		Rock Rapids
Madison County— Winterset Creamery	Winterset	F. B. Seidler	Winterset	F. B. Seidler	Winterset
Mahaska County— Gasper Creamery Co.	Oskaloosa	M. & Jas. Gasperi	Oskaloosa	M. Gasperi	Oskaloosa
Love's Creamery	Oskaloosa	J. C. Love	Oskaloosa	Geo. Love	Oskaloosa
The Reisman Co., Inc.	Oskaloosa	The Reisman Co.	Oskaloosa	John Cork	Oskaloosa
Mahaska Dairy	Oskaloosa	E. C. McKinley	Oskaloosa	H. A. Dickey	Oskaloosa
H. S. Rhysaburger Creamery	Oskaloosa	H. S. Rhysaburger	Oskaloosa	S. R. Dotson	Oskaloosa
Marion County— Knoxville Creamery	Knoxville	W. H. Anderson	Knoxville	Chester McNally	Knoxville
Pella Creamery	Pella	Ben Kuyk	Pella	C. F. Leuthy	Pella
Marshall County— Jackson Dairy Co.	Marshalltown	F. R. Jackson	Marshalltown	Geo. L. Richardson	Marshalltown
Minerva Valley Co-op. Cry. Ass'n.	Clemont	Theodore Heinick	Clemont	W. P. Hughes	Clemont
Nielsen Butter & Ice Cream Co.	Marshalltown	N. C. Nielsen	Marshalltown	Chas. Madison	Marshalltown
State Center Farmers Cry Ass'n.	State Center	Chris Jensen	State Center	Chris Jensen	State Center
Mills County— Glenwood Creamery Co.	Glenwood	I. D. McKnight	Glenwood	E. V. Agler	Glenwood
Malvern Cold Storage Co.	Malvern	Bruce Bochner	Malvern	Aden Ireland	Malvern

CREAMERY LIST—Continued

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DAIRY AND FOOD DIVISION OF THE

THE AGRICULTURAL DEPARTMENT

Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Mitchell County—					
Little Cedar Creamery.....	Little Cedar.....	C. H. Penny.....	Little Cedar.....	L. J. Ethen.....	Little Cedar.....
New Haven Creamery.....	Osage.....	Julius Brunner.....	Osage.....	Rueben Larson.....	Osage.....
Osage Co-op. Creamery Ass'n.....	Osage.....	Judson Burth.....	Osage.....	Chas. Woodliss.....	Osage.....
Riceville Creamery.....	Riceville.....	W. A. Fritz.....	Riceville.....	W. A. Fritz.....	Riceville.....
Rock Creek Creamery Ass'n.....	Osage.....	Herman K. Klemesrud.....	Nora Springs.....	Peter Christensen.....	Osage.....
St. Ansgar Creamery Co.....	St. Ansgar.....	O. C. Seefeldt.....	St. Ansgar.....	H. R. Bulls.....	St. Ansgar.....
Stacyville Creamery Co.....	Stacyville.....	W. A. Schrandt.....	Stacyville.....	K. M. Durben.....	Stacyville.....
Montgomery County—					
Lee Blue Ice Cream Co.....	Red Oak.....	Lee Blue.....	Red Oak.....	W. F. Coonley.....	Red Oak.....
Red Oak Creamery Co.....	Red Oak.....	George L. Rushton.....	Red Oak.....	Earl Doddow.....	Red Oak.....
Tyler Brothers.....	Villisca.....	H. M. & H. F. Tyler.....	Villisca.....	Howard Wolfe.....	Villisca.....
Muscatine County—					
Swift & Co.....	Muscatine.....	C. A. Peacock.....	Chicago.....	R. J. Ford.....	Muscatine.....
West Liberty Co-op. Creamery.....	West Liberty.....	F. T. Lawton.....	West Liberty.....	W. H. Sampson.....	West Liberty.....
O'Brien County—					
Hartley Creamery Co.....	Hartley.....	C. B. Jensen.....	Hartley.....	J. H. Jensen.....	Hartley.....
Sheldon Co-op. Creamery.....	Sheldon.....	Geo. Boerhare.....	Sheldon.....	Paul Moerman.....	Sheldon.....
Sutherland Creamery Co.....	Sutherland.....	Adolph Christensen.....	Sutherland.....	Chas. W. Green.....	Sutherland.....
Oscola County—					
Oscola County Co-op. Cry. Ass'n.....	Sibley.....	Geo. O. Lister.....	Sibley.....	A. M. Hein.....	Sibley.....
Page County—					
Swift & Co.....	Clarinda.....	Hal. Gilmore.....	Clarinda.....	H. C. Larson.....	Clarinda.....
Shenandoah Cry. Co.....	Shenandoah.....	Mrs. S. M. Tuttle.....	Shenandoah.....	Frank Tuttle.....	Shenandoah.....
Sanitary Dairy & Ice Cream Co.....	Shenandoah.....	Gene F. Vaughan.....	Shenandoah.....	Harry Park.....	Shenandoah.....
Palo Alto County—					
Emmettsburg Farmers Co-op Cry. Co.....	Emmettsburg.....	Goldie Zimmerman.....	Emmettsburg.....	W. A. Thayer.....	Emmettsburg.....
Farmers Co-op. Cry. Co.....	Ruthven.....	M. P. Junker.....	Ruthven.....	M. P. Junker.....	Ruthven.....
Farmers Cry. Co.....	Graettinger.....	Jorgen Anderson.....	Graettinger.....	Henry Hanson.....	Graettinger.....
Lost Island Creamery.....	Graettinger.....	A. P. Anderson.....	Graettinger.....	A. P. Anderson.....	Graettinger.....
Mallard Butter & Cheese Ass'n.....	Mallard.....	E. B. White.....	Mallard.....	Carl W. Larson.....	Mallard.....
Silver Lake Creamery Co.....	Ayrshire.....	Nelson Larson.....	Ayrshire.....	Nelson Larson.....	Ayrshire.....
West Bend Co-op. Creamery Co.....	West Bend.....	Edw. Montag.....	West Bend.....	O. W. Dube.....	West Bend.....
Modern Dairy.....	Emmettsburg.....	E. Smith.....	Emmettsburg.....	E. Smith.....	Emmettsburg.....
Plymouth County—					
Wells Dairy.....	Le Mars.....	F. H. Wells.....	Le Mars.....	F. H. Wells.....	Le Mars.....
Pocahontas County—					
Laurens Co-op. Creamery Co.....	Laurens.....	R. V. Neville.....	Laurens.....	C. G. Nelson.....	Laurens.....
Palmer Creamery Co.....	Palmer.....	Ed. V. Johnson.....	Palmer.....	Elmer Hine.....	Palmer.....
Pocahontas Creamery.....	Pocahontas.....	Gust Wehler.....	Pocahontas.....	J. E. Mabie.....	Pocahontas.....
Polk County—					
Beatrice Creamery Co.....	Des Moines.....	H. R. Wright.....	Des Moines.....	S. R. Pemberton.....	Des Moines.....
Des Moines Creamery Co.....	Des Moines.....	J. F. Dawson.....	Des Moines.....	L. S. Pierce.....	Des Moines.....
Harding Cream Co.....	Des Moines.....	J. M. Harding.....	Omaha, Neb.....	D. H. Bobb.....	Des Moines.....
Swift & Co.....	Des Moines.....	C. A. Peacock.....	Chicago, Ill.....	R. S. Merrick.....	Des Moines.....
Pottawattamie County—					
Hurd Creamery Co.....	Council Bluffs.....	Fred E. Hurd.....	Council Bluffs.....	G. S. Superman.....	Council Bluffs.....
Poweshiek County—					
Brooklyn Creamery Co.....	Brooklyn.....	J. N. Gilbertson.....	Brooklyn.....	J. N. Gilbertson.....	Brooklyn.....
Maplehurst Dairy Co.....	Grinnell.....	W. C. Winkelman.....	Grinnell.....	H. E. Crowder.....	Grinnell.....
Sac County—					
Sac City Creamery Co.....	Sac City.....	H. P. Lange.....	Sac City.....	A. G. Rodman.....	Sac City.....
Scott County—					
Bell-Jones Co.....	Davenport.....	M. V. Jones.....	Davenport.....	Robert Burns.....	Davenport.....
Pioneer Creamery Co.....	Davenport.....	E. E. Amos.....	Davenport, Ill.....	Louis Rasmussen.....	Davenport.....
Tri City Butter Co.....	Davenport.....	P. J. Lyngholm.....	Davenport.....	L. B. Ferris.....	Davenport.....
Davenport Dairy Product Co.....	Davenport.....	A. C. Norskow & C. C. Merritt.....	Davenport.....	A. C. Norskow.....	Davenport.....
Shelby County—					
Buck Valley Creamery Co.....	Kimballton.....	Peter Larsen.....	Kimballton.....	Carl Lyng.....	Harlan.....
Harlan Ice & Creamery Co.....	Harlan.....	O. G. Buffoorn.....	Harlan.....	E. W. Jensen.....	Harlan.....
West Hamlin Creamery Co.....	Elk Horn.....	William Lausten.....	Exira.....	William Loutsen.....	Elk Horn.....
Sioux County—					
Alton Creamery.....	Alton.....	Herbert Lucas.....	Alton.....	Herbert Lucas.....	Alton.....
Farmers Co-op. Creamery Co.....	Boyd.....	Hy Schlotje.....	Boyd.....	H. J. Wargowsky.....	Boyd.....
Farmers Co-op. Creamery Ass'n.....	Hall.....	Jacob Moss.....	Hall.....	O. W. Albright.....	Hall.....
Farmers Mutual Co-op. Cry. Ass'n.....	Orange City.....	Frank Noteboom.....	Orange City.....	B. Scholten.....	Orange City.....
Farmers Mutual Co-op. Creamery.....	Sioux Center.....	Tennis Shut.....	Sioux Center.....	A. Yonker.....	Sioux Center.....
Farmers Mutual Creamery Co.....	Hospers.....	John Roetzal.....	Hospers.....	P. H. Yonker.....	Hospers.....
Rock Valley Creamery Co.....	Rock Valley.....	Fred A. Miller.....	Rock Valley.....	R. E. Palmer.....	Rock Valley.....
Inter State Co-op. Cry. Ass'n.....	Hawarden.....	Wm. Miller.....	Hawarden.....	Wm. M. Anderson.....	Hawarden.....

CREAMERY LIST—Continued

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DAIRY AND FOOD DIVISION OF

THE AGRICULTURAL DEPARTMENT

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Name of Creamery	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Story County—					
Dairy Dept. Iowa State College.....	Ames.....	M. Mortensen.....	Ames.....	F. C. Hinze.....	Ames.....
Farmers Co-op. Creamery Co.....	Slater.....	C. E. Frousdahl.....	Slater.....	C. Clark.....	Slater.....
Huxley Farmers Co-op. Cry. Co.....	Huxley.....	Sam Maland.....	Huxley.....	O. J. Olson.....	Huxley.....
Nevada Cheese, Ice Cream & Butter Co., Inc.....	Nevada.....	A. Contri.....	Nevada.....	D. R. Dunnalt.....	Nevada.....
Roland Farmers Creamery Co.....	Roland.....	C. E. Rod.....	Roland.....	L. H. Larsen.....	Roland.....
Story City Farmers Co-op. Cry.....	Story City.....	Martin C. Hanson.....	Story City.....	L. C. Peterson.....	Story City.....
Zearing Creamery Co.....	Zearing.....	C. P. Bean.....	Zearing.....	Carl M. Peterson.....	Zearing.....
Tama County—					
J. H. Reil Creamery Co.....	Tama.....	J. H. Neil.....	Tama.....	Herman Roesch.....	Tama.....
Traer Creamery Co.....	Traer.....	L. Nielsen.....	Traer.....	L. Nielsen.....	Traer.....
Taylor County—					
Bedford Creamery.....	Bedford.....	A. E. Lake.....	Bedford.....	Leslie Klopp.....	Bedford.....
Union County—					
Afton Creamery Co.....	Afton.....	V. O. Williams.....	Afton.....	V. O. Williams.....	Afton.....
Armour & Co.....	Oreston.....	Armour & Co.....	Chicago, Ill.....	A. F. Blaschke.....	Oreston.....
Boyd Creamery Co.....	Oreston.....	J. I. Boyd.....	Oreston.....	Vernon Anderson.....	Oreston.....
Swift & Co.....	Oreston.....	C. A. Peacock.....	Chicago, Ill.....	Harry McAllister.....	Oreston.....
Wapello County—					
F. G. Buxton Creamery Co.....	Ottumwa.....	F. G. Buxton.....	Ottumwa.....	Frank T. Thill.....	Ottumwa.....
Swift & Co.....	Ottumwa.....	Swift & Co.....	Chicago, Ill.....	E. McFarland.....	Ottumwa.....
Yorkshire Creamery Co.....	Ottumwa.....	Geo. M. Foster.....	Ottumwa.....	C. G. Farr.....	Ottumwa.....
Warren County—					
Indianola Cry. Co.....	Indianola.....	M. J. Van Dam.....	Indianola.....	M. J. Van Dam.....	Indianola.....
Washington County—					
Brighton Ice Cream Co.....	Brighton.....	Ed Hartman.....	Washington.....	Seal G. Whaler.....	Brighton.....
Reister Creamery.....	Washington.....	W. S. Reister & Son.....	Washington.....	Harold J. Hays.....	Washington.....
Wayne County—					
Jas. L. Humphrey, Jr.....	Humeston.....	Jas. L. Humphrey, Jr.....	Humeston.....	Ralph King.....	Humeston.....
Webster County—					
Fort Dodge Creamery.....	Fort Dodge.....	A. B. Saylor.....	Fort Dodge.....	B. Jensen.....	Fort Dodge.....
Gold Bar Creamery.....	Fort Dodge.....	S. H. Decker.....	Fort Dodge.....	Rudolph Dencker.....	Fort Dodge.....
Gowrie Co-op. Creamery Co.....	Gowrie.....	E. E. Renquist.....	Gowrie.....	Chris Sorensen.....	Gowrie.....
Winnebago County—					
Buffalo Center Co-op. Cry. Co.....	Buffalo Center.....	F. Brahm.....	Buffalo Center.....	Ben Swanson.....	Buffalo Center.....
Forest City Co-op. Cry. Ass'n.....	Forest City.....	J. E. Read.....	Forest City.....	Soren Kristensen.....	Forest City.....
Lake Mills Creamery Co.....	Lake Mills.....	Olaf T. Groe.....	Lake Mills.....	Carl Rovland.....	Lake Mills.....
Leland Co-op. Creamery Co.....	Leland.....	Edd O. Peterson.....	Leland.....	Albert Bakken.....	Leland.....
Lincoln Co-op. Creamery Co.....	Rake.....	A. A. Sheldon.....	Rake.....	L. K. Bjerke.....	Rake.....
Seaville Creamery Ass'n.....	Seaville.....	J. E. Hermanson.....	Seaville.....	Chester Hansen.....	Seaville.....
Thompson Co-op. Creamery Co.....	Thompson.....	N. K. Anderson.....	Thompson.....	Walter Thompson.....	Thompson.....
Vinje Creamery Ass'n.....	Vinje.....	A. O. Engbreitson.....	Seaville.....	Gay Hovland.....	Seaville.....
Winnechick County—					
Calmar Creamery Co.....	Calmar.....	A. A. Olson.....	Calmar.....	H. A. Fieletel.....	Calmar.....
Decorah Farmers Ice Cave Cry. Ass'n.....	Decorah.....	Henry Lubke.....	Decorah.....	N. J. Bendickson.....	Decorah.....
Festina Co-op. Creamery Co.....	Festina.....	J. B. Huinker.....	Festina.....	P. J. Lissou.....	Festina.....
O. A. Fosse Creamery.....	Ridgeway.....	O. A. Fosse.....	Ridgeway.....	Geo. Haberman.....	Pt. Atkinson.....
Haberman Creamery.....	Pt. Atkinson.....	George Haberman.....	Pt. Atkinson.....	Adolph Sanderson.....	Ridgeway.....
Highlandville Creamery Co.....	Ridgeway.....	Bidne & Akre.....	Highlandville.....	P. J. Bidne.....	Highlandville.....
Lincoln Creamery Co.....	Ridgeway.....	O. O. Rue.....	Ridgeway.....	Leon Qualey.....	Ridgeway.....
Nordness Creamery Co.....	Nordness.....	G. O. Remmen.....	Nordness.....	George Ryerson.....	Decorah.....
Pleasant Co-op. Creamery Co.....	Canoe, R. D. from Decorah.....	N. O. Faldet.....	Decorah.....	Helmar Haugen.....	Decorah.....
Silver Springs Creamery Co.....	Ossian.....	H. P. Nicholson.....	Ossian.....	O. O. Hauge.....	Ossian.....
Woodbury County—					
Blue Valley Creamery Co.....	Sioux City.....	H. C. Darger.....	Chicago, Ill.....	A. C. Z. Mortensen.....	Sioux City.....
Palmont Creamery Co.....	Sioux City.....	L. E. Hurtz.....	Omaha, Neb.....	John Mathen.....	Sioux City.....
Hanford Produce Co.....	Sioux City.....	J. H. Whittemore.....	Sioux City.....	M. O. Wheeler.....	Sioux City.....
Swift & Co.....	Sioux City.....	C. A. Peacock.....	Chicago.....	Leonard Short.....	Sioux City.....
Sioux City Co-op. Dy. Mktg. Ass'n.....	Sioux City.....	Grant Lake.....	Merrill.....	R. B. Strand.....	Sioux City.....
Worth County—					
Farmers Butter & Cheese Ass'n.....	Northwood.....	Oliver Knutson.....	Northwood.....	H. C. Stendell.....	Northwood.....
Farmers Co-op. Cry. Ass'n of Tenold.....	Northwood.....	O. E. Starre.....	Kensett.....	Elmer Anderson.....	Northwood.....
Farmers Creamery.....	Grafton.....	E. M. Glasel.....	Grafton.....	Peter Hefsdahl.....	Grafton.....
Farmers Creamery Co.....	Kensett.....	Hilmen Gaudier.....	Kensett.....	Selmer Nelson.....	Kensett.....
Farmers Creamery.....	Manly.....	G. J. Mueller.....	Manly.....	Ed. Andrasen.....	Manly.....
Fertile Co-op. Dairy Co.....	Fertile.....	Roy Larsen.....	Hanlontown.....	H. P. Eagen.....	Fertile.....
Hanlontown Creamery Co.....	Hanlontown.....	E. A. Gudvangen.....	Hanlontown.....	E. A. Gudvangen.....	Hanlontown.....
Hartland Creamery Co.....	Northwood, 9 mi. N. W.....	E. E. Breen.....	Northwood.....	N. O. Dahlen.....	Northwood.....
Joice Creamery Co.....	Joice.....	L. I. Skutle.....	Joice.....	J. H. Hagen.....	Joice.....
Wright County—					
The Hutchinson Co.....	Clarion.....	Tom Wapaleree.....	Clarion.....	H. H. Shrader.....	Clarion.....
Farmers Co-op. Creamery Co.....	Belmond.....	G. F. Euler.....	Belmond.....	C. H. Jennings.....	Belmond.....
Farmers Creamery Co.....	Dows.....	H. J. Iverson.....	Dows.....	A. O. Larson.....	Dows.....
Goldfield Co-op. Creamery.....	Goldfield.....	L. W. Howell.....	Goldfield.....	L. W. Howell.....	Goldfield.....

cen Central Churning Plant. c Co-operative. s Stock. i Individual. p Partnership.

CHEESE FACTORY LIST

Name of Factory	Location	Name of Proprietor	Address of Proprietor	Name of Cheesemaker	Address of Cheesemaker
Allamakee County—					
Forest Mills Cheese Factory.....	Postville.....	F. I. Clark, Sec.....	Postville.....	E. E. Austin.....	Postville.....
Manover Cheese Factory.....	Dorchester.....	T. J. Fitzgerald, Mg.....	Dorchester.....	Otto Stenhardt.....	Dorchester.....
Volney Farmers Cheese Factory.....	Monona, R. 2.....	Mrs. Dell Rose, Sec.....	Leoda, R2.....	R. Gerber.....	Monona, R2.....
Frankville Farm Cheese Co.....	Postville.....				
Humboldt County—					
Pioneer Cheese Factory.....	Benwick.....	W. F. Keller, Prop.....	Benwick.....	W. F. Keller.....	Benwick.....
Jones County—					
Anamosa Cheese Factory.....	Anamosa.....	Board of Control.....	Des Moines.....	John Hinz.....	Anamosa.....
Mitchell County—					
Janestown Cheese Factory.....	Riceville.....	John Stettler.....	Riceville.....	John Stettler.....	Riceville.....
Riceville Creamery.....	Riceville.....	W. A. Fritz.....	Riceville.....	W. A. Fritz.....	Riceville.....
Story County—					
Nevada Cheese, Ice Cream, Butter Co....	Nevada.....	A. Contri & C. H. Chase.....	Nevada.....	S. Palmieri.....	Nevada.....

CONDENSED MILK LIST

Name of Factory	Location	Name of Proprietor	Address of Proprietor
Carnation Milk Products Company.....	Waverly.....	Paul R. McKee, Secretary.....	223 St. State St., Chicago, Ill.
Perry Milk Products Company.....	Perry.....	H. J. Ryner, President.....	Perry, Iowa