

State of Iowa

1924

Thirty-eighth Annual Report
Dairy and Food Division

OF THE

Iowa Department of Agriculture

For the Year Ending December 31, 1924

Reprinted from
**Twenty-Fifth Annual Year Book
of Agriculture**

Issued by the
Iowa Department of Agriculture
Des Moines, Iowa

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THE STATE OF IOWA
Des Moines

LETTER OF TRANSMITTAL

HON. JOHN HAMMILL, *Governor:*

Sir: I have the honor to transmit herewith the Thirty-eighth Annual Report of the Dairy and Food Division of this department for the year ending December 31, 1924, as a part of the twenty-fifth Iowa Year Book of Agriculture.

M. G. THORNBURG,
Secretary, Iowa Department of Agriculture.

Des Moines, January 1, 1925.





"The Proof of the Pudding is in the Eating"

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
Assistant Chief	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. Paxon	Muscatine
State Inspector	Burr Willis	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	A. D. Flete	Iowa Falls
State Inspector	A. L. Landis	Waterloo
State Inspector	F. W. Stephenson	Oelwein
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
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	Helen T. Hackley	Des Moines
Stenographer	Marjorie Butler	Des Moines
Janitor	W. W. Shaffer	Des Moines

DAIRY COMMISSIONERS

NAME	County From Which Chosen	Date of First 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	1898-1898
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	1922-
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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

REPORT OF DAIRY AND FOOD DIVISION

FOREWORD

The aim of this report is to give to the public a resume of the work done by the Dairy and Food Division during the year ending December 31, 1924. It is only by such reports issued at stated periods that our people get an understanding of the scope and purpose of this department with its force of forty odd employees carrying out the provisions of the twenty laws under its supervision. Even then they are not fully apprised of all that has been accomplished during the year, for there is much done along educational and promotional lines that cannot be measured in definite terms and does not show up in any report except perhaps in the expense.

This is the first report to give an account of a full year's work since the establishment of the department of agriculture through the consolidation of the Dairy and Food, Animal Health, Hotel and Oil departments. In comparing this year's work with any previous year's work where the several departments were working separately, you will find everything is in favor of the consolidation as to the quality, quantity and expense of the work done. None of the departments included in the consolidation have suffered by the change as the reports that follow conclusively show.

DAIRYING

We can hardly expect Iowa situated in the heart of the cornbelt with a soil second to none in its fertility, with a less percent of waste land and a greater percent of improved farms, to devote all her resources to dairying. It would not be wise for her to do so. No state in the union is so well adapted for general farming. Yet when you consider that fifty-one percent of all the creameries in the state are located in twenty-one counties, it is evident Iowa is far from her limit in dairy production. A limit that need not necessarily jeopardize her production along other lines, as a comparison of the twenty-one counties referred to with the twenty-one counties with the least number of creameries to their credit (16) would indicate.

TABLE NO. 1—PRODUCTION OF THE TWO SETS OF COUNTIES

County	Bushels Corn	Number Swine	Bushels Oats	Number Poultry	Dozens Eggs
Bremer	3,216,100	61,204	2,049,766	332,781	1,464,446
Payette	3,741,400	83,328	2,072,100	478,774	1,808,300
Coloquett	3,018,666	62,373	1,704,550	391,191	1,397,722
Clayton	3,500,000	76,981	2,366,055	436,456	1,682,613
Kootenai	1,500,000	134,007	6,605,600	328,961	2,070,308
Delaware	3,666,666	87,600	1,965,504	332,179	1,387,968
Jackson	3,083,000	61,606	1,073,018	297,788	1,066,474
Butler	4,100,000	77,522	2,477,861	267,576	1,622,788
Winneshiek	3,275,000	81,070	2,143,700	295,200	1,066,750
Black Hawk	4,050,000	90,028	2,508,114	332,781	1,462,660
Chickasaw	3,000,000	58,513	2,044,700	310,414	1,146,611
Howard	2,270,000	48,506	2,391,758	243,198	1,066,719
Worth	1,734,100	53,439	2,437,820	216,165	873,306
Buchanan	4,080,000	87,328	2,181,542	337,901	1,230,161
Carroll	5,630,000	96,982	3,053,440	346,638	1,395,369
Cerro Gordo	3,000,000	70,114	2,873,196	307,372	1,064,313
Clinton	5,144,322	102,266	1,788,322	374,472	1,462,530
Hardin	4,000,000	96,654	3,130,500	374,472	1,462,530
Linn	4,000,000	117,909	2,515,815	451,417	1,739,208
Palo Alto	4,180,000	98,373	3,760,720	396,703	1,068,751
Winnebago	1,972,500	53,143	2,387,062	226,067	900,256
	79,639,365	1,676,078	53,817,903	7,012,586	28,544,471
Adams	2,737,000	83,051	758,940	245,771	962,397
Clarke	2,124,000	77,420	557,544	210,584	869,722
Crawford	7,000,000	154,458	3,823,908	325,023	1,394,451
Decatur	2,811,500	62,474	562,008	236,140	1,137,278
Greene	6,000,000	70,300	3,079,706	297,821	1,139,267
Harrison	7,273,000	100,235	1,192,244	325,807	1,348,572
Jasper	6,000,000	102,994	2,038,564	439,006	1,730,528
Jefferson	5,620,000	96,805	1,506,792	396,114	1,671,225
Louisa	2,580,000	66,418	873,000	385,500	1,528,323
Lucas	1,780,000	78,885	901,759	238,970	904,080
Madison	3,064,000	100,430	923,734	338,539	1,192,030
Monroe	1,005,000	42,312	333,600	138,654	746,981
Oaheola	2,800,000	56,271	2,040,640	238,961	739,569
Pottawatomie	6,181,000	186,574	1,817,250	447,001	1,780,041
Davis	2,328,000	48,354	613,384	212,863	1,143,279
Prentiss	1,900,000	71,900	413,100	137,500	737,441
Ida	4,731,000	115,709	2,138,543	214,103	739,106
Monona	7,000,000	100,188	980,586	247,347	1,000,745
Ringgold	2,980,000	71,192	707,280	224,402	1,294,315
Van Buren	5,143,000	85,477	657,749	216,891	739,106
Cherokee	5,900,000	138,300	2,130,636	262,480	1,042,842
	88,108,800	1,930,377	28,297,083	5,863,830	22,103,117

As is shown by the above tables, the counties supporting the 228 creameries in 1923 produced 90% as much corn, 90% as many swine, 90% more oats, 22% more poultry, and 23% more eggs than the counties supporting the 16 creameries. This demonstrates that a county is losing a large source of revenue when it adheres to crop production alone. A good high producing herd is not out of place on any farm no matter what its specialty may be. A prominent manufacturer once said—that to make manufacturing pay you must keep your men and machinery at work every day, otherwise, your overhead would eat you up. That same idea is

applicable to the farm. All the resources of the farm should be brought into play and kept busy. Land is too high now (and it is going to be higher) for a grain crop alone to pay fair returns on its value. Nothing beats the cow and the hen for reducing the overhead on a farm, in some cases eliminating it entirely.

That more of our farmers are taking this view of it each year is indicated by the increased demand for more and better cows, which in turn accounts for the increase in milk produced and butter made. Last year 9,000,000 pounds more of creamery butter were made than the year before, putting Iowa into second place for creamery butter made. The hand separator did much to lessen the drudgery on the farm of handling the milk, and the Babcock Test was as big a boon to the creamery in putting cream buying on a sound and business-like basis. We are yet far from the millenium in dairying. The farmer who continues to milk a cow that yields only seventy-five to one hundred pounds of fat a year, is as far behind in his dairy herd as his wife would be if she persisted in handling the milk in a shallow pan set in the cellar. While the creameryman is as unfair to his patrons who bring him good cream for the same price he pays for the poor as some of his patrons were to him before he bought on test. As Dr. Larson said in his address before the buttermakers at their national convention, "the same labor will take care of and milk a good cow as a poor one, the same space in the barn will stable her, and the same feed will sustain her. All you need extra is the extra feed for the extra milk." The creameryman has an equal opportunity for improvement by buying on grade, for the same building, the same utensils, and the same labor will make up the good cream as the poor, and all he pays extra is for the extra quality of his butter and for the poor only what it is worth. Quality is becoming more of a factor in the sale of butter as the production increases. A heavy market invariably means a wide range between the low and high score butter.

Farm made butter is getting less each year. Most communities depend on the local creamery for home consumption. Even the farmers themselves are taking home each year more butter from their creamery. 565,605 lbs. more were sold to creamery patrons this year than last, and a million and one-third more creamery butter was consumed in Iowa than a year ago. Fully eighty-five percent (85%) of all the butter made in the state is made in the creamery, as well as sixty percent of all that is consumed. The

following table shows the amount of creamery butter sold in Iowa each year for the past twelve years:

TABLE NO. 2—CREAMERY BUTTER SOLD IN IOWA, 1913-1924

1913	14,716,555 lbs.
1914	15,105,725 lbs.
1915	15,842,119 lbs.
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.

In addition to the above amount credited to 1924 most of the 25,000,000 lbs. of the farm dairy as shown in the following table of dairy products was consumed here at home (largely on the farm). Perhaps 500,000 lbs. found its way out of the state as packing stock.

Our increase in dairy production is a healthy one as evidenced by the following table:

TABLE NO. 3—TOTAL VALUE OF DAIRY PRODUCTS FOR 1924

Creamery Butter	140,497,549 lbs.	\$59,156,885.00
Ice Cream	4,930,000 gal.	4,600,000.00
Market Milk	900,000,000 lbs.	21,000,000.00
Cheese	477,947 lbs.	87,281.00
Cottage Cheese	2,100,000 lbs.	250,000.00
Farm Dairy Butter	25,000,000 lbs.	9,250,000.00
Condensed Milk	14,832,000 lbs.	1,090,000.00
Skim Milk and Butter Milk	3,780,000,000 lbs.	10,200,000.00
Fertilizer	12,000,000 tons	12,000,000.00
Calves	1,000,000 calves	3,000,000.00
Total		\$120,634,166.00

For the year ending November 30, 1924, 10,321 head of dairy cattle at a valuation of \$1,001,400.00, were shipped into the state from Wisconsin. Twenty-three percent of these were pure breds. For the same period there has been shipped from Minnesota 14,706 grades and 235 pure breds with an estimated value of \$1,176,400.00. Cattle sent in from other states would no doubt bring the total number during the year up to 27,000 head.

This increased demand for good dairy cows is going to continue and our farmers are overlooking another source of revenue when they permit between two and three million dollars to go out of the state each year for something that can just as well be produced here in Iowa.

Knowing as we do what is to be gained by the use of the pure bred sire it is hard to understand why our percentage of pure bred sires is permitted to remain so low. The percentage of pure breds and milk production in the corn belt states is here given as put out in 1922:

	Percent Dairy Bulls Pure Bred	Av. Milk Production Per Cow
Wisconsin	43	4,016
Michigan	34	3,965
Ohio	32	3,603
Indiana	21	3,044
Kansas	19	2,657
Illinois	19	3,044
Missouri	17	2,339
Minnesota	16	3,044
Oklahoma	13	2,012
Iowa	12	2,709
South Dakota	11	2,339
Nebraska	9	2,528
North Dakota	8	2,657

The following table shows for what the over five billion pounds of milk produced in our state last year was used for:

Milk used in Creamery Butter	3,600,000,000 lbs.
Milk used in Ice Cream	74,800,000 lbs.
Milk used in Market Milk	900,000,000 lbs.
Milk used in Cheese	4,436,000 lbs.
Milk used in Farm Butter	625,000,000 lbs.
Milk used in Condensed Milk	13,800,000 lbs.
Total	5,218,036,000 lbs.

IOWA BUTTERMAKERS AGAIN MAKE GOOD

That Iowa's honors, like some people's troubles, never come singly, is again demonstrated by what happened at the National Dairy Exposition at Milwaukee, Wis., September 27 to October 4, and at the National Creamery Buttermakers' Association at Mason City, November 11, 12 and 13. Iowa won all three prizes in both the cold storage contest and the fresh butter contest at Milwaukee. At Mason City she did not fare quite so well, losing first prize in the fresh butter contest to Minnesota. She took second and third, however, and all three prizes in the cold storage butter contest. Eleven out of twelve major prizes in one year ought to satisfy the most ambitious. The banner also for the third time came to Iowa.

Every time our buttermakers bring home these honors, they strengthen our claim that it is good buttermaking and not good fortune that wins these prizes. Our only danger is over-confidence. We must not forget that for years prior to 1921 the prize banner went to Minnesota, and they are not going to leave it indefinitely

with Iowa if they can help it. Minnesota, however, is not our only rival, for there were seventeen other states represented. When you consider that there were 625 entries at Milwaukee and 688 at Mason City, you realize that getting first, second or third prize in any one of the contests is no mean honor.

Cuts of the men winning the eleven major prizes are here presented, as well as a list of the men who won the banner for Iowa.

FRESH BUTTER CONTEST

Fred Harms, Oelwein.....	95.00
John W. Sadler, Farley.....	95.75
H. J. Wargowsky, Boyden.....	94.50
O. J. Kloock, Whittemore.....	94.50
Theo. F. Slack, Waverly.....	94.50
Paul Macauley, Burt.....	94.50
H. Rooker, Epworth.....	95.00
W. A. Rizer, Alpha.....	94.50
H. C. Ladage, Tripoli.....	94.50
Julius Brunner, Osage.....	96.00
Frank Brunner, Colwell.....	95.50
S. R. Dotson, Spragueville.....	96.25
M. P. Christiansen, Algona.....	95.25
C. R. Conway, Garner.....	94.50
Vern Sires, Postville.....	94.50
Otto F. Weger, Strawberry Point.....	94.50
<hr/>	
	95.225

COLD STORAGE BUTTER SCORED IN JUNE

F. H. Harms, Oelwein.....	95.75
Wm. W. Chyle, Protivin.....	95.50
Vern Sires, Postville.....	95.25
H. C. Stendel, Northwood.....	95.00
F. P. Gernand, Volga City.....	94.75
M. O. Buroker, New Vienna.....	94.50
C. W. Rouse, Hopkinton.....	94.50
Henry Segebarth, Fairbank.....	94.50
Otto F. Weger, Strawberry Point.....	94.50
A. E. Zierath, Sumner.....	94.50
Selmer Nelson, Kensett.....	94.50
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	94.875

COLD STORAGE BUTTER SCORED AT CONVENTION

M. O. Buroker, New Vienna.....	95.75
C. R. Conway, Garner.....	95.50
Henry Wargowsky, Boyden.....	95.25
Henry Segebarth, Fairbank.....	95.00
E. H. Rohrsen, Waverly.....	94.75
F. P. Gernand, Volga City.....	94.75
C. W. Chyle, Protivin.....	94.50
J. F. Lorenzen, Cedar Falls.....	94.50
Otto F. Weger, Strawberry Point.....	94.50
Fred Harms, Oelwein.....	94.25
C. B. Peterson, Exira.....	94.25
A. E. Zierath, Sumner.....	94.25
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	94.875

IOWA MEDAL WINNERS IN NATIONAL CONTEST

Mason City, Iowa

(Gold Medal—M. A. Nielson, Harris, Minn., 96.50)



S. R. Dotson
Spragueville
Silver Medal
Score 96.25



Julius Brunner
Osage
Bronze Medal
Score 96.00

Fresh
Butter
Contest



M. O. Buroker
New Vienna
Gold Medal
Score 95.75



C. R. Conway
Garner
Silver Medal
Score 95.50

Storage
Butter
Contest



H. J. Wargowsky
Boyden
Bronze Medal
Score 95.25

DAIRY AND FOOD DEPARTMENT

IOWA'S MEDAL WINNERS IN NATIONAL CONTEST

Milwaukee, Wisconsin



H. C. Stendal
Northwood
Gold Medal
Score 94.75

Storage
Butter
Contest



C. R. Conway
Garner
Silver Medal
Score 94.50



Reuben Larson
Osage
Bronze Medal
Score 94.25

DAIRY AND FOOD DEPARTMENT

IOWA'S MEDAL WINNERS IN NATIONAL CONTEST

Milwaukee, Wisconsin



E. P. Gernand
Volga City
Gold Medal
Score 96.00

Fresh
Butter
Contest



John S. Smith
Rockwell City
Silver Medal
Score 95.75



E. M. Gufney
Tripoli
Bronze Medal
Score 95.25

THE IOWA CREAMERY

A complete history of the Iowa creamery from its inception at Spring Branch in Delaware county in 1872, up to the 260 co-operative, 130 individual and 55 centralizers, that now make up Iowa's quota of 445 creameries, would show that it has had its share of the ups and downs that attend any new enterprise before it reaches a period of stabilization.

TABLE NO. 15—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 Condensories
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		66,497,108	.22	81	
1896	741	60		80,032,916	.219	73	
1897	795	96		88,900,000	.188	76	
1898	811	143		87,704,214	.197	67	
1899	779	188		87,972,470	.203	69	
1900	797	167		84,965,062	.227	73	
1901	750	161		82,706,944	.216	73	
1902	752	168		77,885,696	.242	52	
1903	552	109		64,565,970	.242	45	
1904	550	106		70,000,000	.214	37	
1905	573	82	20	82,707,588	.248	29	
1906	548	48	20	91,202,354	.237	27	
1907	510	84	75	91,164,363	.282	13	
1908	514	36	82	101,552,063	.265	9	
1909	524	19	99	101,907,316	.288	9	
1910	485	9	86	93,911,000	.305	5	
1911	468	1	33	96,685,584	.261	9	
1912	504		36	91,738,573	.312	6	
1913	518		36	96,953,183	.324	11	
1914	500		45	92,865,921	.30	12	
1915	467		42	89,834,005	.302	11	3
1916	443		41	97,628,788	.325	13	3
1917	451		43	94,269,685	42.7	24	3
1918	402		44	83,348,309	51.0	19	3
1919	398		42	90,915,938	60.3	26	2
1920	399		41	89,179,612	61.5	17	2
1921	414		40	98,740,419	43.4	10	2
1922	422		50	124,168,089	40.7	5	2
1923	429		50	132,878,353	46.8	5	2
1924	445		55	140,497,549	42.5	5	2

From the preceding table we find Iowa reached her greatest number during the years between 1894 and 1902. It was also during the years from 1894 to 1911 that the skim milk station flourished, reaching its peak as to number in 1898. From there its use as a feeder to a central creamery began to decline, until it ceased to be a factor in the creamery business. Along about 1904 or 1905 the central churning plant or what we now term the centralizer put in its appearance with its attending cream stations all over the state. The following tables show that it has become an important

factor in the butter production of the state, dividing the honors with the co-operative as to pounds manufactured. Of the 900 cities and towns in the state there are a very few if any without a cream buyer. It is estimated that there are at least 2,000 cream stations where cash is paid for cream, which is sent to a central churning plant.

TABLE NO. 16—BUTTER PRODUCTION FOR 1923

No. Creameries	Butter Made	Average Price Paid Patron
227 Co-operative creameries	50,772,138 lbs.	45.3 cents
158 Individual creameries	23,394,560 lbs.	40.2 cents
50 Centralizer creameries	58,711,655 lbs.	39.27 cents
435	132,878,353 lbs.	

TABLE NO. 17—BUTTER PRODUCTION FOR 1924

No. Creameries	Butter Made	Average Price Paid Patron
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.	

In any community where the interest in dairying is sufficient to supply the number of cows necessary for a creamery, the co-operative as a rule gives its patrons the best returns. But as 50% of our creameries are located in 21 counties, it is evident that dairying on a large portion of our farms is a secondary consideration, and the cream station, in many cases, is their only outlet. That portion of the state that, as we see it, would profit the most from an increased interest in the dairy cow, and her ally the creamery, is the southern half of our state, which so far has seen fit to let the northern half monopolize that branch of agriculture.

We herewith present the following table to show that the tendency is towards the creamery and away from the farm in butter production:

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.

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.

Iowa increased her number of creameries last year by 10% and her creamery production by 7,619,196 lbs. or 5.7%.

The following table gives the amount of milk and cream it took to produce this, also where disposed of:

Milk received	180,512,431 lbs.
Cream received	378,390,826 lbs.
Pounds butter made.....	140,497,549 lbs.
Pounds sold to patrons.....	5,679,813 lbs.
Pounds sold in Iowa.....	21,534,144 lbs.
Pounds sold outside of the state.....	113,321,294 lbs.

THE STATE BUTTER MARK

Each year we call our buttermakers' attention to the advisability of qualifying for the State Brand, and each year we are more and



Trade-Mark Adopted for First Quality Iowa Butter

more convinced that the difference between the price the average creamery patron receives and what the patron of a state brand creamery receives, is altogether too much to be ignored. We here give a list of the twenty state brand creameries in operation last year and the average price they paid to their patrons as taken from their reports sent to this department.

STATE BRAND CREAMERIES

Creameries	Towns	Price	Patrons
Strawberry Point Farmers Creamery Ass'n	Strawberry Point ..	47.2	365
Farmers Creamery Company.....	Manly	51.1	105
Algona Co-operative Creamery Co.....	Algona	52.	214
Bremer Creamery Co.....	Bremer	47.75	76
Hull Co-operative Creamery.....	Hull	45.05	600
Center Valley Creamery Co.....	Sumner	50.	80
Lake Mills Creamery Co.....	Lake Mills.....	52.3	259
Washington Creamery Co.....	Waverly	51.6	58
Tripoli Creamery Co.....	Tripoli	49.65	119
Tenwold Creamery Co.....	Northwood	51.1	446
Denver Creamery Co.....	Denver	50.20	104
Klinger Creamery Co.....	Readlyn	50.5	70
Readlyn Creamery Co.....	Readlyn	50.94	64
Artesian Creamery Co.....	Waverly	50.	78
Farmers Co-operative Creamery Co.....	Oelwein	52.	446
Selgel Creamery Co.....	Tripoli	50.4	71

THIS YEAR'S ADDITION TO IOWA'S BUTTER MARK GROUP



P. Refsdahl, Grafton Farmers Creamery Co.



Fred Kucker, Fenton Fenton Co-op. Creamery



L. H. Beach, Randallia Randallia Mutual Creamery Co.

Farmers Mutual Co-op. Cry. Co.	Maynard	51.1	117
Lost Island Creamery	Graettinger	49.	90
Plymouth Co-operation Creamery	Plymouth	52.33	155
Farmers Butter & Cheese Ass'n.	Northwood	50.8	154

These figures speak for themselves, and are a practical illustration of what is being lost by the disinclination to take a little more pains in so many of our creamery organizations. It does not seem to make any difference what subject is under consideration, butter, cream, milk or eggs, quality is the prime factor that all acknowledge is essential for a salable product and often it means just the difference between a profit and a loss. The idea that so often prevails that volume is necessary in order to profitably operate a successful co-operative creamery is dispelled by the reports from the twenty state brand creameries heretofore referred to. The creamery having only 58 patrons makes just as good a showing as those creameries having 300 to 400 patrons.

We here present a facsimile of the Iowa Butter Mark. That stamp on a tub or a pound print assures the buyer that he or she is getting butter of the first quality, made from good cream by a buttermaker who has complied with the State Butter Mark regulations both as to the sanitary condition of the building as well as the cleanliness of his utensils. Following is a list of the twenty-three creameries who are entitled to use the state brand:

Creamery and P. O. Address	Buttermaker	License No.
Strawberry Pt. Farmers Cry. Assn., Strawberry Point	Otto F. Wegers	No. 1
Farmers Creamery Co., Manly	G. J. Mueller	No. 2
Algona Co-op. Creamery Co., Algona	M. P. Christianson	No. 4
Bremer Creamery Co., Bremer	T. H. Slack	No. 6
Hull Co-op. Creamery Co., Hull	O. W. Albright	No. 7
Center Valley Creamery Co., Sumner	A. E. Zierath	No. 8
Lake Mills Creamery Co., Lake Mills	Carl Hoveland	No. 9
Washington Creamery Co., Waverly	C. L. Gamm	No. 10
Tripoli Creamery Co., Tripoli	H. C. Ladage	No. 12
Tenold Creamery Co., Northwood	Elmer Anderson	No. 13
Denver Creamery Co., Denver	W. J. Spurbeck	No. 14
Klinger Creamery Co., Readlyn	Henry Segebath	No. 15
Readlyn Creamery Co., Readlyn	H. A. Griesse	No. 16
Artesian Creamery Co., Waverly	C. J. Meier	No. 17
Farmers Co-op. Creamery Co., Oelwein	F. H. Harms	No. 18
Siegel Creamery Co., Tripoli	E. H. Rohrsen	No. 19
Farmer's Mutual Co-op. Cry. Co., Maynard	A. H. Butz	No. 20
Lost Island Creamery Co., Graettinger	A. P. Anderson	No. 21
Plymouth Co-op. Creamery, Plymouth	M. Mikkelsen	No. 22
Farmers Butter & Cheese Assn., Northwood	H. C. Stendel	No. 23
Farmers Creamery Co., Grafton	P. Refsdahl	No. 24
Fenton Co-op. Creamery, Fenton	Fred Kuecker	No. 25
Randall Mutual Creamery Co., Randall	L. H. Beach	No. 26

CHEESE

The manufacture of cheese in this state is not what it should be, neither is it what it used to be. In 1920, our records show we had seventeen factories in operation with an annual output of 800,000 lbs. By 1922, this number of factories was reduced to five with an output of 256,000 lbs. As discouraging as this is there is a ray of hope in the fact that these five factories are still operating and last year increased their output by 35,107 lbs.

The per capita consumption of cheese in this country is a trifle less than 4 lbs., while our foreign competitors in dairying consume from 12 lbs. to 25 lbs. per capita. From a commercial standpoint at least, we are far short of consumption and very far short of production. It is a regrettable situation that our state does not manufacture an amount equal to her consumption. It is poor business for Iowa to import farm products, much less dairy products.

MARKETING OF EGGS

When the wholesale egg dealers met in Des Moines on March 20, 1924, it was resolved that after April 1, 1924, all eggs should be bought on a two grade basis. At that time sixteen cents was the prevailing track price, mine run. On that basis it was the consensus of opinion of those present that eighteen cents for No. 1, and thirteen to fourteen cents for No. 2 eggs would be a fair spread between the two grades. While many started out on a two-price plan, few finished. Why did so many lapse? (A) gives as his reason for going back to the old way of one price for all, that his competitor (B) as well as the merchants, continued to pay the straight price, and soon raised their price to eighteen cents or his No. 1 price, so in order to meet competition he paid the straight price. (A) seemed content to do that, yet by so doing he was making his No. 1 egg cost twenty cents and his No. 2 egg fifteen cents. Why did not (A) continue to buy on grade, and meet competition by paying twenty cents for the No. 1 and fifteen cents for the No. 2 eggs? Was he afraid (B) would pay twenty cents straight? What would have happened if (A) had had the courage of his convictions and continued to pay two cents more than the straight price for his best grade? Would not the desirable trade have drifted to (A) and the undesirable to (B)? When tried it

seems to work that way. We hear a great deal about educating the farmer. The department is inclined to think that if the packers or wholesale buyers will buy their eggs as they sell them, according to quality or grade, the farmer will adapt himself to the change quick enough. Even the country merchant will weary of paying a No. 1 price for a No. 2 egg that will stand him a loss of five cents or more.

Can we expect the farmer or merchant to take seriously all this talk about more money for those who take better care of their eggs, so long as they get the same price for anything short of an inedible egg? We wonder how it would be for some of our farmer friends to suggest a campaign of education for the packers, for they should know that so long as they continue to pay the same price for all kinds, just so long will the producer continue to deliver all kinds. Much of the troubles experienced by our egg buyers during the summer and fall months could have been eliminated if the buyers had stuck to the resolution passed by their organization in March.

It is not the bad egg that is the great menace to the egg trade, but the all-too-many eggs of questionable age that are offered for fresh. It is the eggs that range from the almost bad to the almost fresh that discourage the housewife and cause her to turn to other foods during certain seasons of the year. The suggestion that advertising would do for the egg what it has done for butter is a good one, and should be put into practice by those interested. But no form of advertising will do for the egg what the egg can do for itself. A clean fresh egg of good size will sell itself. The producer will deliver that kind when he quits being penalized for so doing. That is just what is being done when one price is paid. He has to take enough less for his No. 1 egg to make up for the extra price he receives for his No. 2 egg.

Another thing that should be remedied is the injustice that is being done to the cold storage egg. A No. 1 storage egg is a good wholesome article of food and should be put on the market for just what it is. Its good qualities should be well advertised. The public should be informed that there is a vast difference between a fresh egg put into storage in April or May and held until fall under our present system of storage, and the stale fall egg held on the farm, and sold as fresh because just received by the merchant. The retailer must be prohibited from mixing the No. 1

storage with his fresh, and his poor or stale current receipts with the storage. The storage egg gets no credit for the one, and has to stand all the odium of the other.

Standardization in egg buying occupied much of the time at the National convention of the National Poultry, Butter and Egg Association, held in Chicago, last October. The discussions were confined chiefly to the purchase of eggs from the producer. All agreed eggs should be bought according to quality, but so far few were doing it. The tentative grades put out by the U. S. Department of Agriculture also received their share of attention. The government grades themselves make no distinction between fresh and storage eggs. If strictly adhered to, the cold storage egg as a distinct class would go out of existence. Some would like to see this, while others realizing that there will be two distinct classes of eggs in reality, if not in name, are inclined to think that any attempt to do away with the words "fresh" and "storage," will do more harm than good to both fresh and storage eggs. This department is inclined to that same view, and would prefer to see whatever grades go into practice apply to both fresh and storage separately.

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.

CHART OF TENTATIVE U. S. GRADES OF EGGS

Tentative U. S. Grades	Quality Factors	Standard for each quality factor in each grade
U. S. SPECIALS (A tolerance of 3% of U. S. EXTRAS and 2% of U. S. No. 1 permitted)	Shell Air cell Yolk White Germ Size Color and weight	Clean, sound and strong. Localized, regular, 3/16" depth or less. Dimly visible. Firm and clear. No development. Uniform. (As marked on the package).
U. S. EXTRAS (A tolerance of 3% of U. S. No. 1 and 2% of U. S. No. 2 permitted)	Shell Air cell Yolk White Germ Size Color and weight	Sound and stain free. Localized, well defined, regular, 5/16" depth or less. Visible. Firm and clear. No development. Reasonably uniform. (As marked on the package).
U. S. NO. 1 (A tolerance of 5% of U. S. No. 2 and 3% loss permitted)	Shell Air cell Yolk White Germ Size Color and weight	Sound and stain free. Localized, regular, 7/16" depth or less. Visible but mobile. Reasonably firm. Development not over 1/4" diameter. Variable. (As marked on the package).
U. S. NO. 2 (A tolerance of 5% "Culls" and 5% loss permitted)	Shell Air cell Yolk White Germ Size Color and weight	Sound, few stained. May be bubbly, freely mobile and over mobile 7/16" in depth. May be fairly heavy to heavy but must be mobile. May be weak and watery. May be well developed but no blood showing. Greatly variable. (As marked on the package).

U. S. CULLS (A tolerance of 5% loss permitted)	Eggs which are heavily shrunken, salted or chilled or weigh less than 20 ounces to the dozen shall be graded as U. S. Culls.
U. S. DIRTIES NO. 1	Eggs which are of the quality of U. S. Extras or better but which are stained or dirty of shell shall be graded as U. S. No. 1 Dirties.
U. S. DIRTIES NO. 2	Eggs which are of the quality of U. S. No. 1 or lower but are stained or dirty of shell shall be graded as U. S. No. 2 Dirties.
U. S. CHECKS	Eggs which are slightly cracked but with the shell membrane unbroken and not leaking their contents shall be graded as U. S. Checks. (Eggs with slightly leaking contents shall be classed as leakers. Those with contents flowing freely from shell shall be classed as smashed.)
LOSS	Loss is defined to mean eggs which are inedible.

The inspection force of this department has paid much attention to the enforcement of the egg law during the last year, with the result that the merchant and egg buyer has paid more attention to his candling and less eggs have been bought case count than ever before.

Notwithstanding the disastrous outcome of the egg business for 1923, the farmer has received a good price for his product this year and the packers have retrieved part of their losses of last year.

The following tabulations compare the receipts and prices of this year with the last two years. Also it shows the variations in price one month with another for last ten years:

EGGS

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

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	15	19	33	40	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

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.

WEIGHTS AND MEASURES

During the year ending December 31, 1924, 60,288 scales or weighing devices were inspected by the department. That is an average of 600 to the county. This would indicate that few scales escaped being tested at least once a year, and some oftener. There were also 8,434 gasoline pumps and measures tested.

Of the total number of scales inspected 1,813 were condemned to be repaired or replaced by new scales. Of the pumps and measures 435 were condemned. This does not include the number that were not working accurately but were corrected by the inspector at no expense to the owner.

The following table shows the percentage of scales inspected to those condemned:

	Tested	Condemned	%
Wagon scales	3,425	411	12 %
Counter scales	33,824	1,082	3.2 %
Platform scales	14,903	223	1.5 %
Cream test scales	8,969	97	1.08 %
Penny-in-the-slot scales	296	86	30.00 %
Gasoline pumps and measures	8,434	435	5.1 %

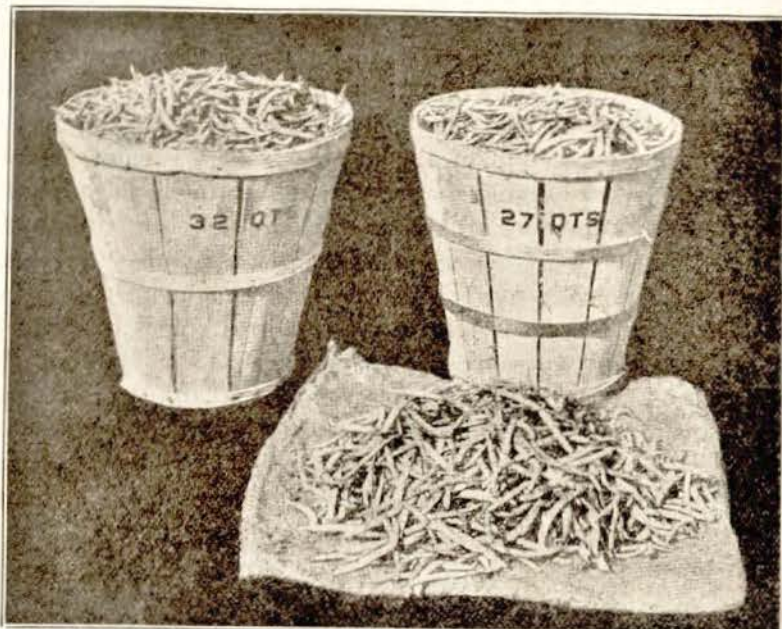
The requiring of most farm products as shown by the following table to be sold by weight, except certain small fruits, as well as the standardization of the Climax and berry boxes, has done much to stabilize vegetable marketing:

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

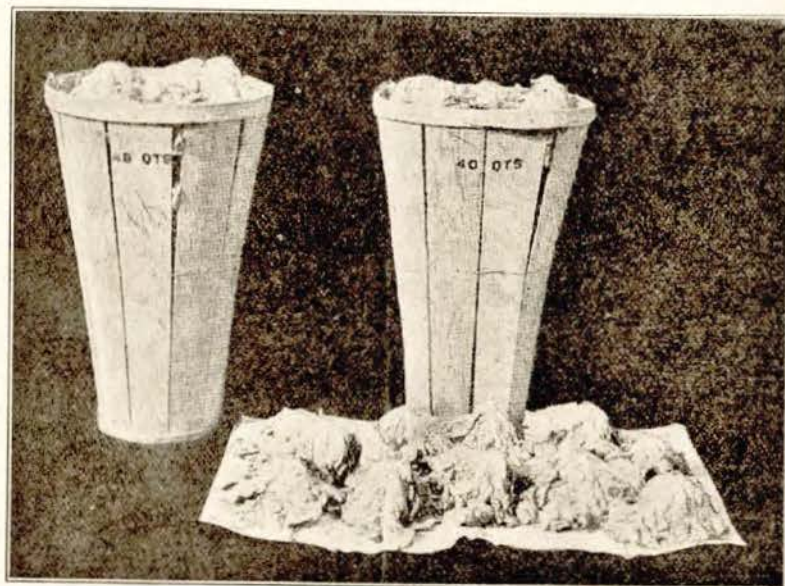
	1 bushel pounds	1 peck pounds	Ounces 1 quart
Apples	48	12	24
Apples, Dried	24	6	12
Alfalfa Seed	60	15	30
Barley	48	12	24
Beans, Green	56	14	28
Beans, Dry	60	15	30
Beans, Lima	56	14	28
Berse	56	14	28
Bluegrass Seed	14	3½	7
Bran	20	5	10
Bromus Inermis	14	3½	7
Broom Corn Seed	50	12½	25
Buckwheat	48	12	24
Carrrots	50	12½	25
Castor Beans	50	12½	25
Charcoal	20	5	10
Cherries	40	10	20
Clover Seed	40	10	20
Coal	80	20	40
Coke	40	20	20
Corn, Ear	75	17½	35
Corn, unshelled	56	14	28
Corn, shelled	56	14	28
Corn Meal	48	12	24
Cucumbers	48	12	24
Elmwood	40	10	20
Flax Seed	56	14	28
Grapes, Strips	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	48	12	24
Onions	52	13	26
Onion Top Sets	28	7	14
Onion Bottom Sets	22	5½	11
Orchard Grass Seed	14	3½	7
Orange Orange Seed	22	5½	11
Parsnips	48	12	24
Peaches	48	12	24
Peaches, Dried	23	5½	11
Peanuts	22	5½	11
Peas	45	11¼	22½
Peas, Unshelled	50	12½	25
Peas, Dried	40	10	20
Plums	48	12	24
Pop Corn, Cob	70	17½	35
Pop Corn, Shelled	56	14	28
Potatoes	60	15	30
Quinones	48	12	24
Rape Seed	50	12½	25
Redtop Seed	14	3½	7
Rutabagas	60	15	30
Eye	56	14	28
Salt	80	20	40
Sand	130	22½	45
Shells	20	5	10
Sorghum Seed	50	12½	25
Speltz	40	10	20
Sweet Corn	50	12½	25
Sweet Potatoes	50	12½	25
Timothy Seed	45	11¼	22½
Tomatoes	80	20	40
Turnips	55	13½	27½
Walnuts	50	12½	25
Wheat	60	15	30
All root crops not specified above	50	12½	25

1 dry qt.—67.5 cu. ins. 1 liquid qt.—67.5 cu. ins. A dry qt. holds 14 per cent more than a liquid qt. Dry commodities must be sold by weight or dry measure.

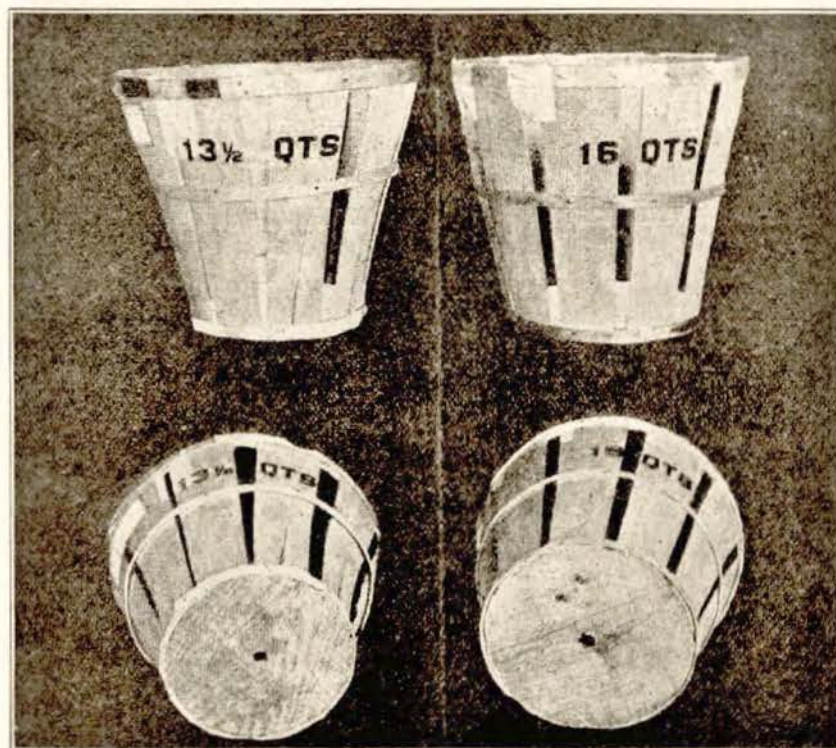
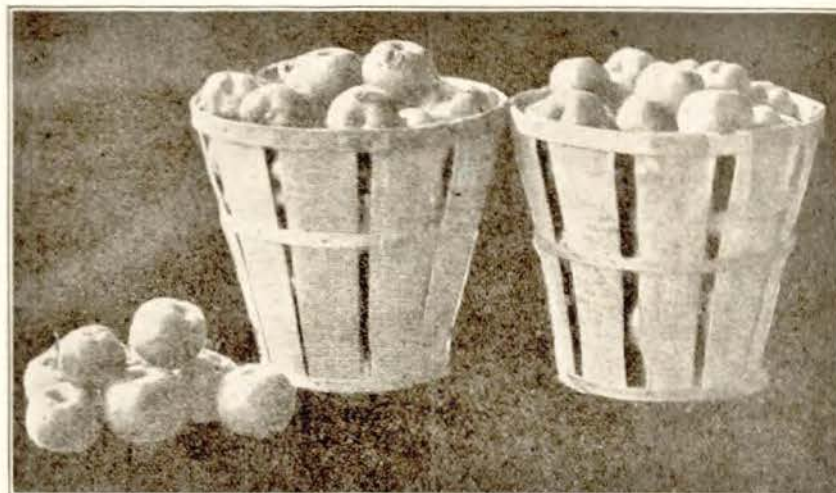
The cuts here presented will illustrate better than words of explanation or warning, what the public has lost in too many cases by buying their vegetables and fruits by the basket rather than by weight. It is seldom that the bushel basket used by the huckster holds a bushel by weight of the product sold. The inspectors in this department are giving special attention to food sold in package form, and are informing all vendors of vegetables or fruit in their districts that they must comply with the law as to selling by weight, and when their product is sold by the basket or hamper, they must be labeled with the net weight in plain figures. It is vitally necessary if you want a square deal, that the exact content of these packages be known by the purchasers and that different size packages be readily distinguished from each other. The producer sells his product by the pound while the consumer buys it in a package. In passing from weight to package the shrinkage in the amount of the article is in many cases a profit of itself.



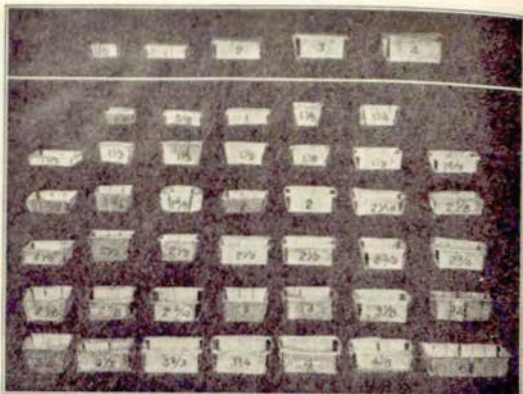
A standard bushel hamper of 32 quarts and a seven-eighths hamper which, although shipped as a 28-quart container, held but 27 quarts. The beans in front of the short basket represent the difference in quantity held by the two baskets.



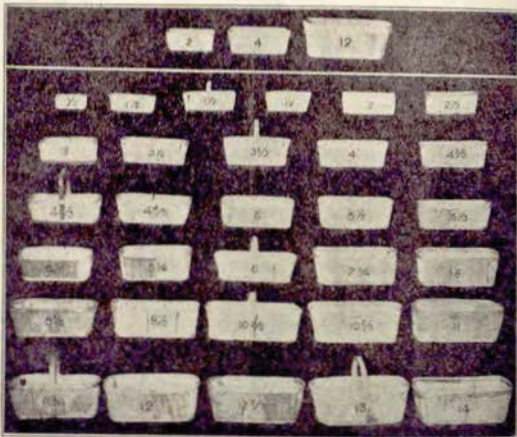
Lettuce hampers vary in capacity from 40 to 48 quarts, but frequently wholesale at the same price. The smaller basket in the picture holds 37 heads of lettuce, the larger 43 heads. The difference in contents is shown on the ground.



The apples on the floor represent the difference in the contents of the 14-quart and 16-quart baskets. By reducing the diameter of the bottom $\frac{1}{4}$ inch and making no change in the height of the baskets the deception is accomplished.



Above: Tills or small fruit baskets now standardized by law. Below: Some of the sizes of small fruit baskets in common use before Government standardization.



Above: Two, four and twelve-quart Climax or grape baskets. Shipments of other sizes in interstate trade are prohibited by law. Below: Thirty-one types of Climax baskets in general use in 1917, before the establishment of standards.

VIOLATIONS OF THE WEIGHTS AND MEASURE LAW

Sold For	Violation	Prosecution Against	Inspector
Gasoline	Red container law	J. H. Kerman, Victor, Iowa	W. W. Newland
Gasoline	Red container law	Iran Seimides, Victor, Iowa	W. W. Newland
Gasoline	Red container law	W. H. Milligan, Cedar Rapids, Iowa	W. W. Newland
Coal	No weight ticket	W. J. Smith, Mason City, Iowa	W. W. Newland
Coal	No weight ticket	Independent Grain & Coal Co., Mason City, Ia	Solan & Thomas
Coal	No weight ticket	B. A. Davis, Manchester, Iowa	Solan & Thomas
Coal	No weight ticket	W. A. Davis, Manchester, Iowa	Solan & Thomas
Coal	No weight ticket	A. A. Dunbar, Maum, Iowa	Solan & Thomas
Coal	No weight ticket	John A. Farber, Ft. Dodge, Iowa	Solan & Thomas
Coal	No weight ticket	Crystal Ice & Fuel Co., Waterloo, Iowa	Solan & Thomas
Coal	No weight ticket	M. Seiden, Osceola, Iowa	Solan & Thomas
Coal	No weight ticket	J. E. Wilson, Dubuque, Iowa	Solan & Thomas
Coal	No weight ticket	W. E. Blair, Park Co., Iowa	Solan & Thomas
Coal	No weight ticket	W. M. Park, Park Co., Iowa	Solan & Thomas
Coal	No weight ticket	Cook Coal & Mining Co., Los Moines, Iowa	Solan & Thomas
Coal	No weight ticket	University Fuel & Fuel Co., Des Moines, Iowa	Solan & Thomas
Coal	No weight ticket	W. A. Davis, Manchester, Iowa	Solan & Thomas
Coal	No weight ticket	John Polka, Okaloosa, Iowa	Solan & Thomas
Coal	No weight ticket	John Polka, Okaloosa, Iowa	Solan & Thomas
Coal	No weight ticket	Robert P. McGee, Farley, Iowa	Solan & Thomas
Coal	No weight ticket	Whitney Coal Co., Des Moines, Iowa	Solan & Thomas
Coal	No weight ticket	Liberty Coal & Mining Co., Leechville, Iowa	Solan & Thomas
Coal	No weight ticket	C. S. Summers, Fairfield, Iowa	Solan & Thomas
Coal	No weight ticket	Albion Coal Co., Des Moines, Iowa	Solan & Thomas
Coal	No weight ticket	W. A. Davis, Manchester, Iowa	Solan & Thomas
Coal	No weight ticket	Laboring Men's Ass'n, Ft. Dodge, Iowa	Solan & Thomas
Coal	No weight ticket	Bouch Coal & Grain Co., Storm Lake, Iowa	Solan & Thomas
Coal	No weight ticket	Des Moines Fuel Co., Allis, Iowa	Solan & Thomas

SANITARY AND FOOD LAWS

Our sanitary and food laws are so closely allied in their enforcement, that what we may say of one applies equally well to the other. Although our food law was passed seven years before our sanitary law, it was not until the need of a sanitary law became apparent that our food law began to receive the attention it should, and since the passage of the sanitary law in 1913, the two have supplemented each other in the work of the department.

Changing conditions bring new problems. Twenty-five years ago, the majority of our population was rural, and only 44% living in our cities and incorporated towns. Today the situation is just the reverse. The majority of our population is urban, and only 44% living on the farm. The output of food manufactured outside the home is increasing each year. Of what the food is made and how manufactured concerns the public more and more, as we realize the hidden danger in food produced under insanitary conditions.

Much of the antagonism that was felt by the trade, when these laws were passed, has disappeared. It was at the request of the carbonated beverage manufacturers, themselves, that they were put under the supervision of the sanitary law, this last year.

Very few, if any, of our reliable food producing establishments would want to go back to the old days of no restraint.

The bakers of the state, who for years have been adverse to a law creating a standard loaf of bread, have come to the conclusion that a pound loaf, or multiples of same, is the most practical way for the baker to comply with the food law. It is expected that a bill, creating a standard loaf, will be introduced in the legislature this winter. If so, it will have the support of this department.

The ice cream manufacturers who also were disinclined to favor the present law, as it referred to their products, are not only reconciled but will ask of the legislature, this winter, that further restrictions be placed on the manufacturers of ice cream, in the way of pasteurization, etc.

HOTELS AND RESTAURANTS

We find that a great per cent of the hotels and eating places are endeavoring to conduct their places in a most sanitary way and are striving to serve the public in the best possible manner.

Owing to the number of men the department now have in the

field, their territory is small and consequently covered oftener. The landlord and inspector come in closer contact and get better acquainted, with the result that the purpose of the law and the aim of the department is better understood and appreciated.

Of course every flock has its black sheep and we find the hotel and restaurant business is no exception. There are always some who are indifferent to rules and regulations if it serves their purpose to ignore them. It is to this class of business men that we give special attention, as they are not only a menace to the public but a great annoyance to the trade itself. Our inspectors are therefore instructed to notify us whenever they find a place of this kind that does not comply with the law, and it is upon their recommendation that we refuse to issue a hotel or restaurant license until the party making application for the same complies with the state law, and puts his place in first class shape. Then after the inspector makes an inspection of his place and recommends to this department that license should be issued, we mail the license to them. By handling it in this manner, there has been a great improvement in our hotels and eating places. There are a class of eating places which are careless and by holding up their license we get much better results. There has been a great improvement in the last year.

One hotel made application for a license and upon inspection of this hotel, the inspector left written instructions with the manager that a vast amount of cleaning and repair work had to be done before a license would be issued. They spent quite a sum of money and work and put the place in first class shape. The manager was more than pleased and stated he was very glad that the inspector had called his attention to the changes that were necessary to make. A great deal of new metal kitchen equipment has been installed, taking the place of insanitary sinks, tables, etc.

Upon receiving a complaint regarding a hotel or eating place we at once get in touch with the inspector in the territory from which the complaint came, and advise him to make an investigation and compel the parties to comply with the law. We are glad to receive these complaints, as we are anxious to compel all parties who are not complying with the law to do so.

It is necessary to make frequent inspections of lunch wagons and lunch stands which do not have proper equipment for handling food stuff. They are very hard to keep lined up and change hands

often. An inspection is made of every place serving food to the public at all county fairs, including State Fair, before license is issued.

We refuse to issue a license to a party operating a pool hall or barber shop to serve lunches where any cooking is done, unless they partition off the barber shop and pool hall with a dust proof partition.

We feel the public is entitled to protection and our aim is to give the most efficient inspection possible. During the year ending December 31st, 1924, the department made 11,476 hotel and restaurant inspections.

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 printed 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 ANALYSES

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 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.

Five informations were filed against one firm operating a rendering plant and labelling their product 60% protein. It is probable that more drastic action will be necessary to stop this practice.

REPORT ON THE ANALYSIS OF COMMERCIAL FEEDS FOR 1924.

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DAIRY AND FOOD DEPARTMENT

KIND	MANUFACTURER	Protein Claimed	Per cent Found	Fat Claimed	Per cent Found	Fiber Claimed	Per cent Found
Golden Buttermilk Hog Feed	Iowa Milg. Co., Cedar Rapids, Ia.	20.00	19.73	5.00	3.43	5.00	2.45
Idlewild Hog Builder	Protector Sales Co., Omaha, Neb.	15.50	19.38	5.00	4.74	1.30	4.05
Egg Maker	Iowa Milg. Co., Cedar Rapids, Ia.	20.00	15.07	6.00	5.35	6.25	7.10
Laying Mash	Quaker Oats Co., Cedar Rapids, Ia.	20.00	21.71	4.00	4.87	10.00	7.47
Bydler's Calif Mash	Ryder & Co., Chicago, Ill.	25.00	25.12	3.00	3.75	6.75	3.90
Planter's Cattle Feed	International Sugar Feed Co., Minneapolis.	15.00	16.45	2.50	2.75	20.00	21.94
Vitality Egg Mash	Rosenbaum Bros., Chicago, Ill.	20.00	21.71	4.00	4.87	7.00	8.25
1. M. A. Scratch Grains	Triangle Milg. Co., N. Kansas City	9.00	12.53	2.50	1.95	5.00	5.16
Special Dairy Feed	Int. Sugar Feed Co., Minneapolis, Minn.	15.00	16.09	4.50	4.90	12.00	12.02
Trim Lassies Feed	Triangle Milg. Co., N. Kansas City	9.00	8.33	0.50	0.55	25.00	13.85
Acme Pig Meal	Acme Mfg. Co., Wheaton, Ill.	28.50	27.78	5.00	.....	7.00	.....
Buttermilk Mash Chick Feed	Iowa Seed Co., Des Moines, Ia.	20.00	20.10	4.00	4.42	5.00	6.10
Powdered Buttermilk	Protector Sales Co., Omaha, Neb.	19.80	19.02	3.70	3.60	2.00	3.71
Growing Mash	Quaker Oats Co., Cedar Rapids, Ia.	17.00	20.01	5.25	5.25	9.00	5.30
Bone Meal	Protector Sales Co., Omaha, Neb.	19.80	22.30	3.70	3.76	6.00	4.90
Cotton Seed Meal	Swift & Co., Chicago	35.00	35.14	2.00	2.12	3.00	4.68
Cotton Seed Meal	S. P. Davis, Little Rock, Ark.	36.00	35.14	.....	.....	.....	.....
Cotton Seed Meal	Am. Oil Cake & Feed Co., Dallas, Tex.	43.00	47.53	.....	.....	.....	.....
Cotton Seed Meal	Chickasha Cotton Oil Co., Chickasha, Okla.	43.00	48.95	.....	.....	.....	.....
Cotton Seed Meal	W. C. Northern, Memphis, Tenn.	36.00	41.93	.....	.....	.....	.....
Cotton Seed Meal	W. C. Northern, Memphis, Tenn.	43.00	42.79	.....	.....	.....	.....
Cotton Seed Meal	Silcom Cake and Feed Co., Kansas City	43.00	42.79	.....	.....	.....	.....
Cotton Seed Meal	Am. Oil Cake & Feed Co., Dallas, Tex.	43.00	42.79	.....	.....	.....	.....
Cotton Seed Meal	Chickasha Oil Co., Chickasha, Okla.	43.00	42.79	.....	.....	.....	.....
Cotton Seed Meal	Hollis Cotton Oil Co., Hollis, Okla.	43.00	42.79	.....	.....	.....	.....
Shorts	Mystic Milling Co., Sioux City, Ia.	16.50	17.46	4.50	5.92	4.50	4.78
Gr. Wheat Screenings	C. H. Griffin, Des Moines, Ia.	15.00	18.14	3.50	4.32	4.50	5.52
Eran	Nebraska Consol. Milg. Co., Grand Island, Neb.	15.50	17.50	3.50	4.65	11.00	8.56
Wheat Bran	Sargent & Co., Des Moines, Ia.	14.00	15.14	3.50	4.62	10.00	9.54
Wheat Middlings	N. W. Consolidated Milg. Co., Minneapolis, Minn.	14.00	14.65	4.00	5.47	9.00	2.90
Wheat Flour Middlings	National Milg. Co., Minneapolis, Minn.	18.50	18.12	3.00	4.70	4.50	3.68
Wheat Red Dog	Sargent & Co., Des Moines, Ia.	14.00	16.63	2.50	3.65	6.00	3.02
Wheat Red Dog	Midland Flour Milg. Co., Kansas City	18.00	18.46	3.75	3.37	3.50	3.61
Wheat Shorts	Midland Flour Milg. Co., Kansas City	17.50	18.18	3.75	4.92	6.00	5.67
Wheat Middlings and Se.	Commander Mill Co., Minneapolis	16.50	15.72	5.00	4.65	6.00	7.27

KIND	MANUFACTURER	Protein Claimed	Per cent Found	Fat Claimed	Per cent Found	Fiber Claimed	Per cent Found
Wheat Middlings	Commander Mill Co., Minneapolis	16.50	16.26	4.50	5.12	6.00	7.10
Wheat Shorts	Repligie Milg. Co., Red Oak, Iowa	14.65	16.82	4.75	4.60	4.45	5.36
Wheat Red Dog	Maney Milg. Co., Omaha	12.50	14.81	3.00	2.00	4.00	2.23
Low Grade Flour	Washburn Crosby Co., Minneapolis	14.00	16.09	3.00	3.27	4.00	.82
Wheat Red Dog	Eagle Roller Mills, New Ulm, Minn.	16.00	15.18	4.00	4.77	3.50	2.84
Wheat Shorts	Pillsbury Flour Mills, Minneapolis	16.00	19.65	4.00	4.61	4.00	2.37
Flour Middlings	Northwestern Feed Co., Minneapolis	16.00	17.10	3.00	5.25	6.00	5.90
Wheat Middlings	Everett-Aughenbaugh Co., Wausau, Minn.	16.00	19.65	4.50	6.25	6.00	4.05
Low Grade Flour	Everett-Aughenbaugh Co., Wausau, Minn.	18.00	18.46	4.00	3.87	4.60	3.47
Wheat Middlings	Commander Mill Co., Minneapolis	16.50	16.09	4.50	3.77	5.50	4.85
Flour Middlings	Springfield Milg. Co., Springfield, Minn.	15.00	15.35	5.00	4.72	6.00	3.15
Standard Middlings	Falcon Milg. Co., Des Moines, Ia.	15.50	15.35	5.00	4.62	9.00	9.10
Wheat Middlings and Se.	Empire Milg. Co., Minneapolis	16.00	18.02	5.00	5.46	6.00	5.82
Red Dog	Eagle Roller Mills, New Ulm, Minn.	16.00	15.63	4.00	5.35	9.50	8.95
Low Grade Flour	Eagle Roller Mills, New Ulm, Minn.	16.00	17.19	2.00	3.90	3.00	2.57
Wheat Middlings and Se.	K. C. Flour Mills Co., Kansas City	16.00	16.09	4.00	3.85	4.00	1.82
Red Dog	Pillsbury Flour Mills, Minneapolis	17.40	17.90	2.90	4.88	3.00	2.17
Wheat Middlings	Bay State Milg. Co., Winona, Minn.	16.00	18.53	4.00	5.00	4.00	2.17
Red Dog	Consolidated Milg. Co., Minneapolis, Minn.	16.00	15.45	4.00	3.98	8.50	8.33
Wheat	Schreiber Mill & Gr. Co., St. Joseph, Mo.	16.50	17.83	3.50	4.44	4.50	4.02
Middlings	International Milg. Co., Minneapolis	15.00	17.10	4.00	4.75	9.00	3.73
Middlings	Falcon Milg. Co., Des Moines, Ia.	15.00	17.10	4.00	4.75	9.00	3.73

REPORT OF COMMISSIONER

KIND	MANUFACTURER OR JOBBER	Protein Claimed	Per cent Found	Fat Claimed	Per cent Found	Fiber Claimed	Per cent Found
Linseed Meal	Iowa Milg. Co., Cedar Rapids	34.00	29.98	.....	.....	.....	.....
Linseed Meal	Iowa Milg. Co., Cedar Rapids	34.00	30.62	P.	.....	.....	.....
Linseed Meal	J. H. Conrad, Omaha	34.00	35.10	.....	.....	.....	.....
Linseed Meal	Council Bluffs Flour & Feed Co., Council Bluffs	34.00	36.45	.....	.....	.....	.....
Linseed Meal	Farmers Elevator Co., Spencer	32.00	32.72	.....	.....	.....	.....
Linseed Meal	Pillsbury Flour Mills, Minneapolis	32.00	32.72	.....	.....	.....	.....
Linseed Meal	Elkader Co-op. Commission Co., Elkader	34.00	31.34	P.	.....	.....	.....
Linseed Meal	Iowa Milg. Co., Cedar Rapids	35.00	36.14	.....	.....	.....	.....
Linseed Meal	Farmers Exchange, Charles City, Ia.	34.00	29.70	.....	.....	.....	.....
Linseed Meal	Iowa Milg. Co., Cedar Rapids	34.00	31.88	.....	.....	.....	.....
Linseed Meal	S. Bernstein, Oskaloosa, Ia.	34.00	34.71
Linseed Meal	Farmers Elevator Co., Albert City, Ia.	34.00	34.71

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KIND	MANUFACTURER OR JOBBER	Protein Claimed	Per cent Found	Fat Claimed	Per cent Found	Fiber Claimed	Per cent Found
Linseed Meal	Spencer Feed Co., Spencer, Ia.	34.00	34.06				
Linseed Meal	Old Process Mill Co., Minneapolis	32.00	32.77				
Linseed Meal	Pillsbury Flour Mill Co., Minneapolis	34.00	36.57				
Linseed Meal	Dayen Flour & Feed Co., Marshalltown, Ia.	34.00	34.27				
Linseed Meal	Ankeny Linseed Mfg. Co., Des Moines, Ia.	34.00	34.43				
Linseed Meal	Ankeny Linseed Mfg. Co., Des Moines, Ia.	34.00	33.63				
Linseed Meal	Ankeny Linseed Mfg. Co., Des Moines, Ia.	34.00	33.06				
Linseed Meal	Ankeny Linseed Mfg. Co., Des Moines, Ia.	32.00	33.55				
Linseed Meal	Ankeny Linseed Mfg. Co., Des Moines, Ia.	34.00	31.58				
Linseed Meal	Minnesota Linseed Oil Co., Minneapolis	34.00	35.31				
Linseed Meal	Minnesota Linseed Oil Co., Minneapolis	34.00	35.64				
Linseed Meal	Midland Linseed Products Co., Minneapolis	34.00	31.64				
Linseed Meal	Midland Linseed Products Co., Minneapolis	31.00	30.76				
Linseed Meal	Midland Linseed Products Co., Minneapolis	34.00	34.40				
Linseed Meal	American Linseed Co., Minneapolis	34.00	35.47				
Linseed Meal	American Linseed Co., Minneapolis	34.00	33.41				
Linseed Meal	American Linseed Co., Minneapolis	34.00	36.37				
Linseed Meal	American Linseed Co., Minneapolis	32.00	33.25				
Linseed Meal	American Linseed Co., Minneapolis	34.00	35.73				
Linseed Meal	American Linseed Co., Minneapolis	32.00	32.25				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.94				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	35.10				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	35.48				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	34.92				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.87				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.10				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.18				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.92				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.92				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	36.67				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	37.48				
Linseed Meal	Spencer Kellogg & Sons, Minneapolis	35.00	35.99				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	29.60				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	33.63				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	37.40				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	32.90				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.56				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.25				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.10				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.91				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.30				

Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.47				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.91				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.35				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	33.85				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.69				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	32.76				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	32.72				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	33.90				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	33.34				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	33.96				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.81				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	36.05				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.80				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	33.86				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.32				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.90				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.71				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.83				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.62				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.42				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	33.34				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	33.89				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.90				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	32.00	32.43				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.26				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.75				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	34.92				
Linseed Meal	Archer Daniels Linseed Co., Minneapolis	34.00	35.83				
Linseed Meal	Iowa Milling Co., Cedar Rapids	34.00	30.53				
Meat Meal	Armour & Co., St. Paul	60.00	57.68				
Meat Meal	Armour & Co., Chicago	60.00	59.33				
Meat Scraps	Armour & Co., Chicago	60.00	56.86				
Meat Meal	Armour & Co., Omaha	60.00	58.24				
Meat Meal	Armour & Co., Omaha	60.00	58.39				
Meat Meal	Armour & Co., St. Joseph, Mo.	60.00	57.91				
Meat Meal	Armour & Co., So. St. Paul	60.00	61.06				
Meat Meal	Armour & Co., Omaha	60.00	64.00				
Meat Meal	Armour & Co., Sioux City	60.00	64.73				
Meat Meal	Armour & Co., St. Paul	60.00	57.96				
Meat Meal	Armour & Co., Omaha	60.00	55.68				
Meat Meal	Armour & Co., Sioux City	60.00	60.54				
Meat Meal	Armour & Co., St. Paul	60.00	61.43				
Meat Meal	Armour & Co., Sioux City	60.00	62.46				
Meat Meal	Armour & Co., Kansas City	60.00	59.47				
Meat Meal	Armour & Co., Kansas City	60.00	60.61				
Meat Meal	Armour & Co., St. Paul	60.00	59.16				
Meat Meal	Armour & Co., Kansas City	60.00	58.24				
Meat Meal	Armour & Co., St. Paul	60.00	58.28				

KIND	MANUFACTURER OR JOBBER	Per cent Found	Fiber Claimed	Per cent Found	Protein Claimed	Per cent Found	Fat Claimed
Meat Meal	Armour & Co., Sioux City	60.00	61.80				
Meat Meal	Armour & Co., Kansas City	60.00	61.26				
Meat Meal	Armour & Co., St. Paul	60.00	58.79				
Meat Meal	Armour & Co., St. Paul	60.00	57.22				
Meat Meal	Armour & Co., St. Paul	60.00	57.89				
Tankage	Armour & Co., St. Paul	62.30	57.68				
Tankage	Armour & Co., Sioux City	60.00	61.50				
Tankage	Armour & Co., Chicago	60.00	60.35				
Meat Meal	Armour & Co., Chicago	60.00	59.98				
Meat Meal	Armour & Co., Omaha	60.00	62.00				
Meat Meal	Armour & Co., Sioux City	60.00	58.59				
Meat Meal	Armour & Co., St. Paul	60.00	60.46				
Meat Meal	Armour & Co., St. Paul	60.00	56.32				
Meat Meal	Armour & Co., St. Paul	60.00	57.94				
Meat Meal	Armour & Co., St. Joseph, Mo.	60.00	58.44				
Meat Meal	Armour & Co., Sioux City	60.00	58.70				
Meat Meal	Armour & Co., Sioux City	60.00	62.72				
Meat Meal	Armour & Co., Sioux City	60.00	63.22				
Meat Meal	Armour & Co., Sioux City	60.00	60.01				
Meat Meal	Armour & Co., Sioux City	60.00	61.80				
Meat Meal	Armour & Co., Kansas City	60.00	63.18				
Meat Meal	Armour & Co., Kansas City	60.00	55.20				
Meat Meal	Armour & Co., Kansas City	60.00	59.03				
Meat Meal	Armour & Co., Omaha	60.00	62.33				
Meat Meal	Armour & Co., Chicago	60.00	63.74				
Meat Meal	Armour & Co., Omaha	60.00	52.86				
Tankage	Armour & Co., Kansas City	60.00	55.05				
Tankage	Armour & Co., Omaha	60.00	55.40				
Meat Meal	Armour & Co., Kansas City	60.00	51.57				
Meat Meal	Armour & Co., Kansas City	60.00	54.03				
Meat Meal	Armour & Co., Sioux City	60.00	60.81				
Tankage	Morris & Co., Omaha	60.00	54.30				
Tankage	Morris & Co., St. Paul	60.00	60.94				
Tankage	Morris & Co., St. Paul	60.00	58.15				
Tankage	Morris & Co., Chicago	60.00	58.70				
Tankage	Morris & Co., St. Paul	60.00	60.72				
Tankage	Morris & Co., Sioux City	60.00	58.70				
Tankage	Morris & Co., Omaha	60.00	57.42				
Tankage	Morris & Co., Omaha	60.00	63.49				
Tankage	Morris & Co., Omaha	60.00	59.90				
Tankage	Swift & Co., St. Joseph	60.00	58.30				

Tankage	Swift & Co., St. Joseph	60.00	59.59				
Tankage	Swift & Co., St. Joseph	60.00	61.95				
Tankage	Swift & Co., St. Paul	60.00	62.06				
Tankage	Swift & Co., St. Paul	60.00	59.33				
Tankage	Swift & Co., Omaha	60.00	59.40				
Tankage	Swift & Co., St. Paul	60.00	61.42				
Tankage	Swift & Co., St. Paul	60.00	60.46				
Tankage	Swift & Co., Sioux City	60.00	60.77				
Tankage	Swift & Co., Chicago	60.00	59.05				
Tankage	Swift & Co., Chicago	60.00	61.27				
Tankage	Swift & Co., Omaha	60.00	62.35				
Meat Scraps	Swift & Co., Omaha	50.00	52.38				
Tankage	Swift & Co., Chicago	60.00	61.05				
Tankage	Swift & Co., Chicago	60.00	62.17				
Tankage	Swift & Co., Omaha	60.00	62.90				
Tankage	Swift & Co., St. Paul	60.00	62.85				
Tankage	Swift & Co., Omaha	60.00	61.43				
Tankage	Swift & Co., Omaha	60.00	58.88				
Tankage	Swift & Co., Chicago	60.00	62.91				
Tankage	Swift & Co., St. Paul	60.00	61.89				
Tankage	Swift & Co., St. Paul	60.00	60.52				
Meat Scraps	Swift & Co., St. Paul	50.00	52.63				
Tankage	Swift & Co., Chicago	60.00	62.87				
Tankage	Swift & Co., Chicago	60.00	57.96				
Tankage	Swift & Co., Chicago	60.00	56.42				
Tankage	Swift & Co., St. Joseph	60.00	61.50				
Tankage	Swift & Co., St. Joseph	60.00	59.17				
Tankage	Swift & Co., Omaha	60.00	60.35				
Tankage	Swift & Co., Chicago	60.00	60.37				
Tankage	Swift & Co., Chicago	60.00	61.52				
Tankage	Swift & Co., Chicago	60.00	59.89				
Tankage	Swift & Co., St. Paul	60.00	60.80				
Tankage	Swift & Co., St. Paul	60.00	61.89				
Tankage	Swift & Co., Chicago	60.00	59.25				
Tankage	Swift & Co., St. Paul	60.00	60.35				
Tankage	Swift & Co., St. Paul	60.00	58.51				
Tankage	Swift & Co., St. Paul	60.00	61.61				
Tankage	Swift & Co., Chicago	60.00	59.79				
Meat and Bone Scraps	Swift & Co., Chicago	50.00	50.10				
Tankage	Swift & Co., Chicago	60.00	61.29				
Tankage	Swift & Co., St. Paul	60.00	62.07				
Meat Scraps	Swift & Co., Chicago	50.00	55.39				
Tankage	Swift & Co., St. Paul	60.00	61.61				
Tankage	Swift & Co., Omaha	60.00	60.04				
Tankage	Swift & Co., Omaha	60.00	62.90				
Tankage	Swift & Co., Chicago	60.00	60.25				
Tankage	Swift & Co., Chicago	60.00	61.87				
Tankage	Swift & Co., Chicago	60.00	61.52				

KIND	MANUFACTURER OR JOBBER	Protein Claimed	Per cent Found	Fat Claimed	Per cent Found	Fiber Claimed	Per cent Found
Tankage	Swift & Co., St. Joseph	60.00	59.32				
Tankage	Swift & Co., Chicago	60.00	57.40				
Tankage	Iowa Packing Co., Des Moines	60.00	59.69				
Tankage	Iowa Packing Co., Des Moines	60.00	59.33				
Meat Meal	Cudahy Packing Co., Omaha	60.00	62.80				
Meat Meal	Cudahy Packing Co., Omaha	60.00	64.28				
Meat Meal	Cudahy Packing Co., Omaha	60.00	62.46				
Meat Meal	Cudahy Packing Co., Omaha	60.00	63.46				
Meat Meal	Cudahy Packing Co., Omaha	60.00	60.80				
Meat Meal	Cudahy Packing Co., Omaha	60.00	60.45				
Meat Meal	Cudahy Packing Co., Sioux City	60.00	58.87				
Meat Meal	Cudahy Packing Co., Sioux City	60.00	58.68				
Meat Meal	Cudahy Packing Co., Sioux City	60.00	61.28				
Tankage	C. L. Percival Co., Des Moines	60.00	51.66				
Tankage	C. L. Percival Co., Des Moines	60.00	52.48				
Tankage	C. L. Percival Co., Des Moines	60.00	43.60				
Tankage	C. L. Percival Co., Des Moines	60.00	53.86				
Tankage	C. L. Percival Co., Des Moines	60.00	54.47				
Tankage	C. L. Percival Co., Des Moines	60.00	52.86				
Tankage	Wilson & Co., Chicago	60.00	58.24				
Tankage	Wilson & Co., Albert Lea, Minn.	60.00	62.44				
Tankage	Wilson & Co., Albert Lea, Minn.	60.00	62.79				
Tankage	Wilson & Co., Albert Lea, Minn.	60.00	61.63				
Tankage	Wilson & Co., Chicago	60.00	61.72				
Tankage	Wilson & Co., Chicago	60.00	63.08				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	58.42				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	60.16				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	61.99				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	58.96				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	62.75				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	60.07				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	59.61				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	60.07				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	60.89				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	61.82				
Tankage	Jacob E. Decker & Sons, Mason City	60.00	59.24				
Tankage	Geo. Hormel, Austin, Minn.	60.00	59.61				
Tankage	Geo. Hormel, Austin, Minn.	60.00	60.16				
Tankage	Geo. Hormel, Austin, Minn.	60.00	60.53				
Meat Scraps	Geo. Hormel, Austin, Minn.	50.00	59.87				
Tankage	Geo. Hormel, Austin, Minn.	60.00	60.80				

Tankage	Geo. Hormel, Austin, Minn.	60.00	60.70				
Tankage	John Morrell & Co., Sioux Falls	60.00	60.70				
Tankage	John Morrell & Co., Ottumwa	60.00	59.16				
Tankage	John Morrell & Co., Ottumwa	60.00	62.55				
Tankage	John Morrell & Co., Ottumwa	60.00	58.46				
Tankage	John Morrell & Co., Ottumwa	60.00	59.12				
Tankage	John Morrell & Co., Sioux Falls	60.00	56.51				
Tankage	John Morrell & Co., Ottumwa	60.00	54.87				
Tankage	John Morrell & Co., Ottumwa	60.00	62.15				
Tankage	T. M. Sinclair & Co., Cedar Rapids	60.00	66.19				
Tankage	T. M. Sinclair & Co., Cedar Rapids	60.00	62.15				
Tankage	T. M. Sinclair & Co., Cedar Rapids	60.00	59.88				
Tankage	Roth Packing Co., Waterloo	60.00	52.78				
Tankage	Roth Packing Co., Waterloo	60.00	54.58				
Tankage	Roth Packing Co., Waterloo	55.00	52.12				
Meat Meal	Roth Packing Co., Waterloo	50.00	50.27				
Tankage	Roth Packing Co., Waterloo	60.00	54.46				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	55.26				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	52.17				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	50.45				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	47.54				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	44.80				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	53.76				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	48.47				
Tankage	Rogers By Products Co., Aurora, Ill.	60.00	45.89				
Tankage	Edw. J. Butler Co., Cedar Rapids	60.00	40.96				
Tankage	Edw. J. Butler Co., Cedar Rapids	60.00	56.16				
Tankage	Edw. J. Butler Co., Cedar Rapids	60.00	49.75				
Tankage	Western By Products Co., Chicago	60.00	48.78				
Tankage	Western By Products Co., Chicago	60.00	41.47				
Tankage	T. A. LaForge Co., Des Moines	38.00	35.57				
Tankage	Fred K. Chandler Feed Co., Des Moines	60.00	41.61				
Meat Meal	Oscar Mayer & Co., Madison, Wis.	60.00	56.69				
Tankage	Dold Pkg. Co., Omaha	60.00	59.16				
Tankage	Benedict Flour & Feed Co., Marshalltown	60.00	61.81				
Tankage	Tri City Flour & Feed Co., Rock Island, Ill.	60.00	59.69				
Tankage Garbage (P.A.F.)	Pan American Feed Co., Toledo, Ohio	18.00	15.54				
Tankage Garbage (P.A.F.)	Pan American Feed Co., Toledo, Ohio	18.00	15.19				
Tankage Poultry (P.A.F.)	Pan American Feed Co., Toledo, Ohio	18.00	16.09				
Tankage Poultry (P.A.F.)	Pan American Feed Co., Toledo, Ohio	16.00	17.37				
Tankage	Geo. Turner & Son, Burlington, Ia.	60.00	60.61				
Tankage	Feeders Supply Co., Kansas City	60.00	61.89				

AGRICULTURAL SEEDS

The question of pure seed is of vital importance to the farmers of Iowa. The planting of seeds containing large quantities of weed seed is in most cases inexcusable. There are seeds on the market of high purity and germination, and while they cost more they are cheaper in the end. Farms often become infested with miscellaneous weeds, some of which are almost impossible of extermination, because the farmer was not particular about the quality of the seed he purchased. It is feared that price is the determining factor in choosing seed for planting in many cases. The Thirty-ninth General Assembly passed a seed law which we believe will improve the quality of seed offered for sale in Iowa, and requires the label on each package to give a true statement of the purity, variety, year grown, and the germination of the seed. This will enable the farmer to know the quality of the seed he buys. During the spring of 1924, this department collected some 400 samples of seed which was offered for sale on the Iowa market. Owing to the lack of funds and the difficulty of obtaining seed analysts, the Department of Farm Crops at the State College undertook to analyze these samples and the samples were forwarded to them as fast as received from the inspectors.

The results of these analysis are published in this report. The analyses show that many firms were making an effort to comply with the law.

Many samples from locally grown and sold seed were found to be badly contaminated with weed seeds. Locally grown seed is often bad because proper machinery for cleaning seed is not available. We receive complaints frequently from farmers who have purchased seed that was bad from firms outside of the state, but as these firms are out of the jurisdiction of our laws, we are unable to give them much assistance. Full protection can only be had by purchasing seed from firms located in the state.

Following is a synopsis of the law:

"**Agricultural seed**" means the seeds of Canada or Kentucky bluegrass, brome grass, fescues, millet, tall meadow oatgrass, 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.

"**Weed seed**" means all seeds not listed above as agricultural seed. All agricultural seed offered or exposed for sale, or sold in package or

wrapped form, for seeding purposes shall be labeled on packages 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. Mixtures of different seeds (as red top and timothy, etc.), when offered for sale in package form in lots of ten pounds or more, shall be labeled in the package in the manner prescribed for pure agricultural seed, and in addition the label shall contain the following:

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.

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

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

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.

Exemptions. Agricultural seed or mixtures of same shall be exempt from the provision 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 per-

mitting 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.

Section 3037, heretofore, referred to is here presented:

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.

A full text of the Iowa Seed Law may be had by writing the Department for Bulletin No. 31.

SUMMARY OF ALL SEED ANALYSES

Wholesaler	Kind of Seed	Germination		Purity		No. of Samples
		Av. % Sated	Av. % Found	Av. % Sated	Av. % Found	
Fred Beckell	Timothy	88.00	88.00	99.50	99.05	1
A. A. Berry Seed Co.	Alfalfa	91.75	97.90	99.45	99.40	2
A. A. Berry Seed Co.	Red Clover	92.00	94.00	99.25	99.25	2
A. A. Berry Seed Co.	Alfalfa	91.00	97.75	99.50	99.47	2
Bruna Seed Co.	Manmoth Clover	96.00	96.33	99.13	97.98	1
Bruna Seed Co.	Red Clover	96.00	96.33	99.30	98.10	1
Bruna Seed Co.	Red Clover	94.00	94.00	99.00	97.82	1
Bruna Seed Co.	Red Clover	96.00	96.00	99.00	98.38	1
Bruna Seed Co.	Red Clover	94.00	97.00	99.50	99.08	1
Bruna Seed Co.	Alfalfa	96.00	96.00	99.00	99.19	2
Bruna Seed Co.	Red Clover	96.00	96.00	99.00	99.29	2
Bruna Seed Co.	Timothy	97.00	96.40	99.16	99.34	5
Bruna Seed Co.	Alfalfa	97.00	96.74	97.04	97.07	5
Bruna Seed Co.	Red Clover	94.00	94.25	98.94	99.83	12
Bruna Seed Co.	Alfalfa	96.00	97.17	99.11	99.11	1
Bruna Seed Co.	Dwarf Essex Rape	86.00	82.00	96.00	96.00	1
Bruna Seed Co.	Sudan Grass	88.00	88.00	95.00	91.50	1
Bruna Seed Co.	Timothy	96.00	96.00	99.00	99.00	1
Bruna Seed Co.	Alfalfa and Alfalfa	97.00	94.00	99.00	98.99	1
Bruna Seed Co.	Red Clover	92.00	96.00	99.00	97.00	1
Bruna Seed Co.	White Clover	88.00	97.00	99.00	99.00	1
Bruna Seed Co.	Red Clover	97.00	97.00	99.00	99.00	1
Bruna Seed Co.	Red Clover	97.00	97.00	99.00	99.00	1
Bruna Seed Co.	Red Clover	95.00	92.00	99.00	99.00	1
Bruna Seed Co.	Red Clover	95.00	97.00	99.00	99.00	1
Bruna Seed Co.	Sweet Clover	95.00	97.00	99.00	99.00	1
Bruna Seed Co.	Alfalfa	95.00	97.00	99.00	99.00	1
Bruna Seed Co.	Red Clover	95.00	97.00	99.00	99.00	1
Bruna Seed Co.	Red Clover	95.00	97.00	99.00	99.00	1
Bruna Seed Co.	Timothy	95.00	97.00	99.00	99.00	1

SUMMARY OF ALL SEED ANALYSES—Continued

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Wholesaler	Kind of Seed	Germination		Purity		No. of Samples
		Av. % Stated	Av. % Found	Av. % Stated	Av. % Found	
Geo. P. Sexauer & Sons.....	Med. Red Clover.....		99.00		99.50	2
Geo. P. Sexauer & Sons.....	Sweet Clover.....	92.00	98.00	99.00	98.50	1
Sioux City Seed Co.....	Alfalfa.....	90.40	92.50	98.88	98.48	6
Sioux City Seed Co.....	Alsike.....	94.00	95.00	99.50	99.40	2
Sioux City Seed Co.....	Blue Grass.....	80.00	94.00	95.00	94.60	1
Sioux City Seed Co.....	Mammoth Clover.....	90.00	92.00	99.25	95.46	1
Sioux City Seed Co.....	Red Clover.....	90.83	95.50	98.79	95.71	6
Sioux City Seed Co.....	Sweet Clover.....	90.00	94.00	98.59	99.18	1
Sioux City Seed Co.....	Wh. Sweet Clover.....	86.00	89.50	99.25	99.86	1
Sioux City Seed Co.....	Yel. Sweet Clover.....	96.00	97.00		99.55	1
Sioux City Seed Co.....	Italian Grass.....		76.50		96.30	1
Sioux City Seed Co.....	Timothy.....	92.00	89.50	99.00	99.75	1
Sioux Falls Fruit Co.....	Alfalfa.....	92.83	97.83	98.71	97.97	6
Sioux Falls Fruit Co.....	Red Clover.....	92.50	97.00	98.84	98.07	2
Sioux Falls Fruit Co.....	Sweet Clover.....	92.67	90.33	99.12	99.00	3
Standard Seed Co.....	Alfalfa.....	93.76	96.47	99.25	97.47	17
Standard Seed Co.....	Alsike.....	91.66	93.00	97.83	96.61	6
Standard Seed Co.....	Red Clover.....	93.12	95.05	98.90	98.26	18
Standard Seed Co.....	Mammoth Clover.....	94.00	88.50	99.00	98.16	1
Standard Seed Co.....	Sweet Clover.....	91.66	96.74	98.58	98.66	6
Standard Seed Co.....	White Clover.....		87.00		99.43	1
Standard Seed Co.....	Rape.....	95.00	85.50	99.50	99.31	2
Standard Seed Co.....	Timothy.....	93.00	92.00	99.00	99.45	1
Taber Seed Co.....	Alfalfa.....		99.00		99.62	1
L. Teweles Seed Co.....	Alfalfa.....	96.60	96.58	99.43	99.41	5
L. Teweles Seed Co.....	Alsike.....	95.75	96.00	98.75	98.63	4
L. Teweles Seed Co.....	Red Clover.....	96.60	93.50	98.45	98.84	5
L. Teweles Seed Co.....	Sweet Clover.....	94.00	91.50	99.00	99.41	2
Wertz Seed Co.....	Alfalfa.....	89.00	86.83	99.17	99.43	3
Wertz Seed Co.....	Red Clover.....	94.17	96.00	98.58	97.79	3
Wertz Seed Co.....	Sweet Clover.....	92.00	89.00	98.50	98.40	1
Wertz Seed Co.....	Ky. Blue Grass.....		28.00		63.10	1
Wertz Seed Co.....	White Clover.....		93.00		8.00	1
Wertz Seed Co.....	Red Top.....		83.00		9.20	1
Wertz Seed Co.....	Timothy.....		27.00		5.00	1
Wertz Seed Co.....	Per. Rye.....		72.00		6.50	1

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Wertz Seed Co.....	Alsike.....				.30	1
Younkeman Seed Co.....	Alfalfa.....	99.00	96.50	99.00	99.96	1
Younkeman Seed Co.....	Alsike.....	95.00	92.00	99.00	99.00	1
Younkeman Seed Co.....	Red Clover.....		65.00		98.48	1
Unknown.....	Red Clover.....		90.99		95.07	39
Unknown.....	M. R. Clover.....		94.69		96.35	5
Unknown.....	Mammoth Clover.....				97.53	2
Unknown.....	Alsike.....		80.25		96.20	2
Unknown.....	Alfalfa.....		83.17		98.93	6
Unknown.....	Alsike and Timothy.....		90.00		99.54	2
Unknown.....	Timothy.....		92.17		98.09	9
Unknown.....	Sudan Grass.....		69.00		89.66	1
Unknown.....	Soybean.....		96.00		100.00	1
Unknown.....	Millet.....		85.00		95.72	1

REPORT OF COMMISSIONER

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THE CANNING INDUSTRY IN IOWA

The season of 1924 was decidedly adverse to the growing of corn of any variety, including sweet corn. As is commonly known, the field corn production for Iowa for the season was the shortest of record. As the requirements to grow sweet corn are quite similar to those for the growing of field corn, naturally, the unfavorable season reflected itself materially in the total lack of sweet corn in the two states of Iowa-Nebraska, with the net result of barely more than a 50% total pack put up when the season was



Husking Room

closed. Estimates made upon the 15,000 acres increase in acreage over 1923, for a total of about 55,000 acres for 1924, anticipated a pack well over 3,000,000 cases. However, the extremely wet and backward season curtailed the pack to about 55% of that anticipated, or approximately 1,600,000 cases, including all varieties, grades and sizes. This was approximately 1,000,000 cases short of the Future Sales booked, necessitating more pro-rating of deliveries than known in recent years. This condition naturally eliminated any Spot Sales and there was no Spot stock carried over from 1923 pack to be offered for sale.

On the other hand, due to the absence of hot and dry weather, the quality of the sweet corn that was packed was never known to

be better, if as good. Advancement constantly being made in the packing of quality products also contributed to the quality of the pack put up.

Notwithstanding that there were a number of new plants contemplated early in the season, none of these projects materialized. No new plants were added except two small plants in Nebraska that had been closed for a number of years were re-opened. These were at Columbus and Auburn, Nebraska, and being small plants, did not add materially to the total pack.

The total of 51 individual canneries operated in Iowa are owned by 33 firms. There are six canneries in Nebraska, three of them being owned by firms operating one or more plants in Iowa. Practically all firms in the two states are members of the Iowa-Nebraska Canners Association.

An outstanding piece of work accomplished by the association during the 1924 pack was to take a composite motion picture film of the sweet corn canning industry, describing the entire process of producing sweet corn for commercial canning, from the growing field to the filled can. The film was taken in collaboration with the Iowa State College at Ames, for educational purposes, depicting one of Iowa's chiefest industries. It is being loaned gratis to universities, colleges, schools, domestic science departments and clubs throughout the country. Applications for the loan of the film should be addressed to C. L. Austin, Secretary of the Association, Des Moines, Iowa.

For the past six years the association has regularly held an Annual Corn Canners' Short Course in co-operation with the Iowa State College at Ames. This is one of the few Short Courses of similar character held throughout the country. In reality, it is a school of instruction expressly designed for the benefit of plant superintendents and assistants. Practically every phase of the corn canning industry is studied and discussed in lectures and round table talks from the seed and soil to the finished product in the can.

Speakers of authority are secured from the National Canners Association, the U. S. Government, Iowa Department of Agriculture and the Iowa State College. Consideration is being given to the conducting of similar Short Courses for other packs put up in lesser amounts, such as tomatoes and pumpkin.

The association co-operates fully in the promotion of National

Canned Foods Week, conducted each year by the National Canners Association.

The principal varieties of corn packed in the two states are Country Gentleman and Evergreen, with Golden Bantam, Crosby and some other lesser known varieties in small quantities. A very limited amount of "Shoepeg" or whole grain sweet corn was put up by one plant.

The average price paid per ton for green corn prevailed practically the same as in former years. A few slight increases of \$1.00 per ton were noted, governed entirely by local conditions.

Following is complete 1924 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. i—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—Sioux City.
Baxter Bros. Co., The.....Office—Brunswick, Me. A-N.
Factory—Wapello.
Bell Canning Co.....Office—Waterloo. A.
Factory—Grundy Center.
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—Sioux 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-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.
Otoe 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-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.

Morris & Co.	Office—Chicago. M-I.
Factory—Omaha.	
Norfolk Packing Co.	Norfolk. A-C-F-J-K-I-p-r.
Otoe Food Products Co.	Nebraska City. A-C-D-E-F-I-J-K-I-p-r.

LABORATORY OF THE DEPARTMENT

A great deal of the investigating done by the department is through the chemical laboratory. Samples of food of many kinds, stock foods, mineral mixtures, and stock tonics are being constantly sent to the laboratory by its field men in order to ascertain if they are properly labeled as to the requirements of the law. Hundreds of samples of cream and milk are submitted to the laboratory every year for testing so that the producer may see if he is receiving just returns for his products. Samples of butter from the large number of creameries in the state are taken frequently, to see if the creameries are putting the amount of butter fat in their butter that is required by the law. This insures the consumer of receiving full food value in the butter he uses. Samples of stock foods and mineral mixtures are constantly being submitted by users of these products to see if their composition compares with the facts stated on the labels. The endless varieties and brands of human foods on the market require continuous checking through the laboratory to see that they are pure and wholesome, and that their labels are truthful and are not false and misleading in any particular. The laboratory in recent years has been called upon to do a great deal of liquor analyses for the Attorney General and County Attorneys in their enforcement of the liquor laws of the state.

This work has grown until some 500 samples are analyzed each year, and much time is required in the analyses and attendance in court.

As stated elsewhere in this report under agricultural seed, "the question of pure seed is of vital importance to the farmer of Iowa," and it is the hope of this department that the incoming legislature will see as we see it that more attention should be paid to seed analysis, and give the laboratory more help, part of the year at least, that the seed that can and should be sent in by our inspection force be promptly analyzed and reported on.

There were 2719 samples analyzed in the laboratory during 1924 divided as follows:

Ice Cream	186
Milk and Cream	997
Liquor	447

Butter	543
Stock Foods	248
Miscellaneous	178
Oils	61
Bacteriological	59

INSPECTION OF OIL

In our report last year under the caption of Oil Inspection, a detailed report was given of the old oil department before it was taken over by the agricultural department, as well as the changes that were made in handling the work after the consolidation, changes that not only lessened the expense both in the office and in the field, but added to the efficiency of the service.

That report ended with the following:

"We have also had in mind reducing the oil inspection fees by cutting down the expense of handling this work."

It is with considerable satisfaction that we are able to say in this report, that the expense of handling the work has been so reduced that the fee of six cents per barrel was reduced July 1, 1924, to five cents per barrel.

There were 7,389 inspections made during the year 1924, which represented close to 1,000,000 barrels of oil.

LICENSES ISSUED AND FEES RECEIVED YEAR ENDING
DECEMBER 31, 1924

Oil	No. 959,767	\$ 52,994.88
Sanitary Licenses	No. 6,296	18,888.00
Babcock Testers Licenses	No. 4,473	11,182.50
Egg Dealers' Licenses	No. 7,997	7,997.00
Scale Tag Licenses	No. 1,876	5,628.00
Scale Inspection Fees	No. 3,426	10,102.29
Inspection Fee Tags	No. 281,792	28,179.28
Milk Dealers' Licenses	No. 6,593	6,593.00
Gasoline Pumps	No. 7,597	22,791.00
Cold Storage	No. 19	475.00
Feedingstuff Analysis Fees	No. 57	57.00
Stock Food Licenses	No. 5	325.00
Commercial Feeds	No. .	753.50
Hotel Transfers	No. 117	117.00
Hotel Licenses	No. 1,799	5,693.00
Fair Restaurants	No. 1,586	4,758.00
Restaurants	No. 3,539	10,615.00
Rendering Plants	No. 148	3,700.00
Seed Analysis	No. 45	22.50
Trade Mark	No. 5	80.00
		20.00
Commercial Fertilizer	No. 18	360.00
Warehousing Law	No. .	81.60
		8.80

\$194,392.55

EXPENSES FOR YEAR ENDING DECEMBER 31, 1924

Name	Salary	Expenses
R. G. Clark	\$ 3,195.98	\$ 365.11
M. E. McMurtry	2,540.00	279.12
E. L. Bodern	2,700.00	391.12
C. S. Bogle	2,400.00	134.60
W. G. Jordan	2,100.00	7.48
A. W. Day	2,400.00	13.47
R. V. Barker	1,500.00	
Mrs. Hornumans	1,172.98	
Irene Price	245.16	
Evelyn Ross	1,400.00	
Pay Neamen	916.13	
Marjorie Butler	225.48	
Helen Hackley	1,200.00	
W. W. Shaffer	900.00	
General office and laboratory expense		5,433.73
J. B. Frisbie	1,800.00	744.00
F. L. Odell	2,100.00	440.26
T. A. Clark	2,100.00	812.30
Guy Thomas	1,500.00	722.21
Ray Seales	2,100.00	662.46
C. N. Hart	1,500.00	932.41
D. T. Broers	1,500.00	716.30
*G. H. Guthrie	1,000.00	427.32
*Peter White	825.00	251.22
F. D. Payne	1,500.00	736.25
Burr Willis	1,500.00	743.33
A. A. Nolte	1,000.00	845.27
L. C. Ueberbach	1,500.00	857.58
J. W. Milnes	2,100.00	807.36
R. E. Long	1,500.00	875.79
S. S. Rygh	1,500.00	740.56
*E. G. Evans	675.00	137.14
*W. A. Carrier	1,250.00	486.34
B. F. Schmitz	1,500.00	968.22
Frank Johnson	1,500.00	796.23
A. D. Pfele	1,500.00	907.84
A. L. Landis	1,500.00	677.46
F. W. Stephenson	2,100.00	860.90
W. Newland	1,500.00	610.76
O. P. Thompson	2,100.00	729.30
A. E. Robertson	1,500.00	719.38
R. O. Brownlee	2,100.00	1,272.05
E. E. Mittlestall	1,500.00	1,453.22
S. B. Ostman	1,500.00	804.22
Fred Susie	1,500.00	877.04
H. E. Ritter	2,100.00	496.11
E. W. McElroy	2,100.00	664.85
E. J. Nolan	2,100.00	1,944.40
A. B. Briggs	2,100.00	1,774.27
	\$ 86,765.46	\$ 32,867.20

*Employed less than a year.

INSPECTION SERVICE

This is our first full year's report of what our inspectors have been able to do under the consolidation created by the 40th General Assembly. As has been stated here-to-fore the Dairy and Food Division is now doing all the inspection that was formally done by the Dairy, Hotel and Oil Departments. The policy of having special men take care of the different lines was changed to dividing the state into 30 districts and a man for each district who takes care of all the inspection work in that district. The fear that was first felt that our dairy department was to suffer by the

change has been entirely dispelled by what has been accomplished during the last year and one-half. The 144,151 inspections made during 1924 as compared with the 95,588 made during the last year's work when the departments were working separately speak for itself. This was done with half the number of inspectors.

TOTAL INSPECTIONS FOR THE YEAR ENDING
DECEMBER 31, 1924

Counter Scales	33,824
Groceries	16,472
Platform Scales	14,903
Produce Houses	10,051
Cream Test Scales	8,969
Cream Stations	8,556
Gas Pumps and Measures	8,434
Restaurants	8,343
Meat Markets	7,839
Oil	7,389
Wagon Scales	3,426
Creameries	2,332
Confectionery	2,049
Farm Dairies	1,672
Hotels	1,547
Bakeries	1,502
Dairymen	1,259
Milk Wagons	943
Feed Stores	876
Ice Cream Factories	877
Miscellaneous	815
Slaughter Houses	684
Bottling Works	363
Penny-in-the-Slot Scales	222
Rendering Plants	209
Seed Dealers	172
Coal Dealers	122
Wholesale Groceries	64
Elevators	
	144,151

TOTAL INSPECTIONS THE LAST YEAR BEFORE
CONSOLIDATION

Dairy and Food Department	64,705
Oil Department Estimated	7,500
Hotel and Restaurants Estimated	8,983
City Milk Inspection Estimated	14,400
	95,588

MISCELLANEOUS WORK

Number of Meetings Attended	702
Number of Complaints Investigated	2,389
Number of Samples Collected	5,848
Number of Samples Tested	13,215
Number of Prosecutions	406
Number of Examinations given	1,387

CREAMERY LIST—Continued

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DAIRY AND FOOD DEPARTMENT

REPORT OF COMMISSIONER

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 Co-op. Creamery	Adair	H. R. Soule	Adair	Chris Jensen	Adair
Greenfield Creamery Co.	Greenfield	W. A. Foster	Greenfield	R. Reynolds	Greenfield
Adams County—					
Prescott Creamery	Prescott	Chris Lundhigh	Prescott	Chris Lundhigh	Prescott
Allamakee County—					
Artie Spring Creamery Ass'n	Quandahl, 9 mi. S. Spring Grove, Minn.	O. C. Flatberg	Spring Grove, Minn.	Olaf Goodno	Spring Grove, Minn.
Calhoun Creamery Co.	Lansing, 6 mi. W.	T. E. Keldt	Church	Floyd Perris	Church
Farmers Co-op. Creamery Co.	Waterville	O. R. Hass	Waterville	J. O. Johnson	Waterville
Farmers Waukon Creamery Co.	Waukon	E. P. Raymond	Waukon	A. H. Hanesmier	Waukon
Ladlow Co-op. Creamery	Waukon, 7 mi. S. W.	Henry Seibert	Waukon	Victor V. Johnson	Waukon
New Albion Co-op. Creamery Co.	New Albion	J. P. Welsh	New Albion	Jacob W. Rouster	New Albion
Postville Farmers Co-op. Cry. Co.	Postville	H. T. Hangartner	Postville	Vera Siro	Postville
Appanoose County—					
Centrox Dairy	Centerville	G. S. Armstrong	Centerville	Joe Brorby	Centerville
Milani Ice Cream Co.	Centerville	Gus Milani	Centerville	Ralph M. Boyer	Centerville
Audubon County—					
Audubon Creamery Co.	Audubon	John Jensen	Audubon	Johannes Johaneson	Audubon
Audubon Township Creamery Assn.	Exira, 6 mi. E.	L. P. Nelson	Exira	L. P. Nelson	Exira
Crystal Springs Cry. Co.	Kimballtown	L. H. Lauritsen	Kimballtown	Chris D. Jensen	Kimballtown
Exira Creamery Co.	Exira	B. Peterson	Exira	B. Peterson	Exira
Sharon Creamery Co.	Audubon	M. Nelson	Audubon	M. Nelson	Audubon
Benton County—					
Farmers Creamery	Belle Plaine	Peter Thueson	Belle Plaine	Peter Thueson	Belle Plaine
Model Creamery	Newhall	Wm. Garleman	Newhall	H. J. Stelling	Newhall
Vinton Sanitary Creamery	Vinton	Wm. Matter	Vinton	Wm. Matter	Vinton
Garrison Co-op. Cry.	Garrison			Earl Morris	Garrison
Black Hawk County—					
Beacon Co-op. Creamery Co.	Cedar Falls	P. A. Lund	Cedar Falls	J. F. Lorenson	Cedar Falls
Cedar Falls Creamery Co.	Cedar Falls	J. M. Seutenrich	Cedar Falls	Geo. Hohn	Cedar Falls
Cedar Valley Creamery Co.	Waterloo	J. H. Brandes	Waterloo	Hans Anderson	Waterloo
Cedar Creek Creamery	Denver, 6 mi. S. E.	Wm. Meier	Denver	Wm. Meier	Denver
C. A. Fosse Creamery	LaPorte City	C. A. Fosse	LaPorte City	R. O. Kue	LaPorte City
Hudson Co-op. Dairy Ass'n	Hudson	H. LaFren	Hudson	Wm. McFarlane	Hudson
Mt. Vernon Creamery	Cedar Falls	A. H. Musch	Cedar Falls	Robt. Kerr	Cedar Falls
Waterloo Co-op. Dairy	Waterloo	H. A. Sunicker	Waterloo	R. W. Chadwick	Waterloo
Farmers Creamery Co.	Dunkerton	Thomas Fisher	Dunkerton	Thomas Fisher	Dunkerton
Boone County—					
Peerless Ice Cream & Butter Co.	Boone	M. E. Bruner & J. F. Sammln	Boone	V. F. Brunner	Boone
Rosendale Co-op. Creamery Co.	Story City, 7 mi. W. 1½ N.	Fred Thatcher	Story City	L. C. Peterson	Story City
Boone Dairy Inc.	Boone	R. E. Fowler	Boone	Roy Billrey	Boone
Bremser County—					
Artisan Creamery Co.	Waverly, 7 mi. E.	Henry Seegers	Waverly	C. J. Meier	Waverly
Bremser Creamery Co.	Waverly	Fred Christophel	Waverly	T. H. Black	Bremser
Clinaux Creamery	Sumner	H. Sell	Sumner	H. F. Dettmer	Sumner
Denver Creamery Co.	Denver	W. J. Moehling	Denver	W. J. Spurbuck	Denver
Excelsior Creamery Co.	Sumner	Geo. Koeliaschel	Sumner	C. A. Day	Sumner
First Maxwell Creamery Co.	Denver, 3 mi. E.	H. C. Gries	Denver	C. P. George	Denver
Frederika Creamery	Frederika	Leigh Aleock	Trippoli	J. Ambrose	Frederika
Freemont Creamery Co.	Trippoli, 3 mi. S. E.	C. B. Chaplin	Trippoli	C. W. Zell	Trippoli
Gilt Edge Creamery Co.	Plainfield	P. W. Stickman	Plainfield	P. W. Stickman	Plainfield
Grove Hill Creamery Co.	Oran, 6½ mi. E. & S.	J. J. Kane	Fairbank	Robert Wagner	Fairbank
Janesville Creamery Co.	Janesville	B. O. Squires	Janesville	H. O. Squires	Janesville
Klinger Co-op. Creamery Co.	Readlyn, 3 mi. S.	Henry Otto	Readlyn	Henry Segebarth	Fairbank
Knitite Creamery Co.	Readlyn	J. Stettman	Readlyn	W. H. Bowers	Readlyn
Little Valley Creamery Co.	Sumner	Chas. Kruger	Sumner	Lesse Nebola	Sumner
Potters Siding Creamery Co.	Trippoli	W. H. Barry	Trippoli	E. M. Guiney	Trippoli
Read Creamery Co.	Readlyn, 3 mi. S.	H. A. Gries	Readlyn	H. A. Gries	Readlyn
Siegel Creamery Co.	Trippoli, 6 mi. N. W.	H. T. Bukrow	Waverly	E. H. Hoesen	Waverly
Spring Fountain Creamery Co.	Sumner	G. C. Schwake	Sumner	Fred Bremer	Sumner
Sumner Creamery Co.	Sumner	Geo. Wescott	Sumner	Albert E. Zierath	Sumner
Trippoli Creamery Co.	Trippoli	B. D. Bennett	Trippoli	H. C. Ladage	Trippoli
Washington Creamery	Waverly	P. M. Cretmeyer	Waverly	C. L. Gamm	Waverly
Western Douglas Creamery	Bremser, 5 mi. N., 1 mi. W.	Wm. Oberken	Waverly	Geo. Heine	Waverly

CREAMERY LIST—Continued

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DAIRY AND FOOD DEPARTMENT

REPORT OF COMMISSIONER

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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
Buchanan County—					
Farmers Co-op. Creamery Co.	Fairbank	Harry Lyon	Fairbank	E. J. Primus	Fairbank
Farmers Creamery Ass'n	Aurora	W. I. Warren	Aurora	Glen Mittelstaft	Aurora
Hazleton Farmers Creamery Co.	Hazleton	C. E. Bode	Hazleton	E. A. Cho	Hazleton
Jesup Creamery Co.	Jesup	D. E. Rogers	Jesup	A. D. Comfort & I. Secord	Jesup
Lamont Creamery Ass'n	Lamont	D. E. Cole	Lamont	E. A. Cho	Lamont
Rowley Farmers Co-op. Creamery Co.	Rowley	A. F. Sloan	Walker	S. E. Gonstad	Rowley
Wapole Valley Creamery	Independence	C. V. Rosenberger	Independence	Roy Stewart	Independence
Winthrop Creamery	Winthrop	J. C. Guthrie	Winthrop	G. C. Jensen	Winthrop
Buena Vista County—					
Clover Leaf Dairy	Alta	L. H. Hatch	Alta	Karl Post	Alta
Farmers Creamery & Produce Co.	Newell	E. P. Kruse	Newell	S. C. Olson	Newell
Storm Lake Produce Co.	Storm Lake	L. W. McCreery & M. L. Crowley	Storm Lake	L. W. McCreery	Storm Lake
Sauitary Dairy	Storm Lake	Chas. F. Keister	Storm Lake	Av J. Enloe	Storm Lake
Butler County—					
Allison Creamery Co.	Parkersburg	W. H. Chapman	Parkersburg	W. H. Chapman	Parkersburg
Clarkville Creamery	Clarkville	H. W. Stine	Clarkville	M. A. Jones	Clarkville
Community Creamery	Parkersburg	C. J. Rohle	Parkersburg	M. A. Jones	Parkersburg
Dumont Creamery Co.	Dumont	J. P. Vander Meier	Dumont	J. F. Vander Meier	Dumont
Farmers Co-operative Cry. Co.	Allison	Wm. 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	Shell Rock	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. J. Peterson	Austinville	P. F. Anderson	Austinville
Farmers Co-op. Cry.	Kesley	E. J. Fessler	Dumont	Fred Carole	Kesley
Calhoun County—					
A. Baird & Co.	Lohrville	J. J. Stamen	Lohrville	J. J. Stamen	Lohrville
Bork Creamery Co.	Manson	J. J. Bork	Manson	A. C. Mathis	Manson
Cedar Creek Creamery Co.	Somers	S. P. Peterson	Somers	John Doose	Somers
Pomeroy Creamery Co.	Pomeroy	H. A. Albrecht	Pomeroy	George Froom	Pomeroy
Carroll County—					
Carroll Creamery Co.	Carroll	C. C. Roberts	Sac City	Geo. Marget	Carroll
Debham Creamery	Debham	H. Lauridsen	Debham	H. Lauridsen	Debham
Cass County—					
Farmers Co-op. Creamery Co.	Breda	A. J. Polking	Breda	J. E. DuCharme	Breda
Halbur Creamery	Halbur	M. J. Wagner	Halbur	M. J. Wagner	Halbur
Jensen Creamery	Coon Rapids	Jens Jensen	Coon Rapids	Wm. Rognard	Coon Rapids
Manning Cry. Co.	Manning	J. A. Bruck	Manning	Paul Border	Manning
Rose Valley Creamery	Roselle	M. Friedman	Carroll	M. Friedman	Carroll
Templeton Creamery Co.	Templeton	John Bieri	Templeton	Jos. E. Klemmer	Templeton
Central Iowa Poultry & Egg Co.					
Atlantic	Atlantic	Conren Bros.	New York	J. P. Jensen	Atlantic
Swift & Co.	Atlantic	L. A. Carton	Chicago, Ill.	A. V. Jensen	Atlantic
Cedar County—					
Tipton Creamery Co., Inc.	Tipton	A. J. Barth	Cedar Rapids	Otto Weidman	Tipton
Durant Farmers Creamery Ass'n	Durant	R. Lamp	Durant	H. G. Davis	Durant
Golden Star Creamery Ass'n	Bennett	W. H. Kroeger	Bennett	R. G. Weeks	Bennett
Louden Farmers Mut. Co-op. Cry. Ass'n	Louden	Kosuth Paul	Louden	W. L. Sloan	Louden
Masonville Co-op. Creamery	Masonville	R. H. Schneider	Masonville	R. L. Lits	Masonville
Salwell Dairy Co.	West Branch	Albert B. Shwell	Iowa City	W. E. Hunter	West Branch
Cerro Gordo County—					
Dougherty Co-op. Creamery Co.	Dougherty	Miss Luella Murphy	Dougherty	P. J. Gotslinger	Dougherty
Farmers Mutual Co-op. Co.	Clear Lake	W. F. Paul	Clear Lake	S. S. Hudson	Clear Lake
E. B. Hieley Co.	Mason City	W. S. Wilcox	Mason City	R. E. Adams	Mason City
Plymouth Co-op. Creamery Co.	Plymouth	C. E. Belnke	Plymouth	M. Mikkanen	Plymouth
Rockwell Co-op. Creamery Co.	Rockwell	F. C. Siegfried	Rockwell	John S. Smith	Rockwell
Swaledale Creamery	Swaledale	Henry Donner	Swaledale	Henry Donner	Swaledale
Thornton Creamery	Thornton	Geo. & Henry Assink	Thornton	Harvey Rasmussen	Thornton
Ventura Farmers Creamery Co.	Ventura	H. H. Olsenburg	Garnet	E. P. Conway	Ventura
Cherokee County—					
Cherokee Creamery Co.	Cherokee	John H. Goeb	Cherokee	Dean S. Gallup	Cherokee
Chickasaw County—					
Alta Vista Farmers Cry. Ass'n	Alta Vista	Geo. J. Scholz	Alta Vista	T. F. Shipman	Alta Vista
Farmers Co-op. Cry. Ass'n	Nashua	R. S. Huntley	Nashua	Monroe Bullis	Nashua
Fredericksburg Butter Factory	Fredericksburg	J. D. Treplett	Fredericksburg	R. D. Sweet	Fredericksburg
Ionia Farmers Creamery Ass'n	Ionia	O. B. Moody	Ionia	Joe Herzog	Ionia
Jericio Farmers Mutual Co-op. Ass'n	Jericio	Earl Cochran	New Hampton	F. W. Nelson	New Hampton
Lawler Creamery Ass'n	Lawler	Volty	Johnnie Punsan	Johnnie Punsan	Lawler
New Hampton Farmers Cry. Ass'n	New Hampton	Joe Deling	New Hampton	D. W. Mohler	New Hampton
Saude Farmers Co-op. Cry. Ass'n	Lawler	Henry Ellingson	Lawler	J. E. Flankner	Lawler
Williamstown Creamery Ass'n	New Hampton	C. M. Furmster	Fredericksburg	Aug. Bremer	New Hampton
Clarke County—					
Patterson Creamery	Oceola	E. M. Patterson	Oceola	E. M. Patterson	Oceola

CREAMERY LIST—Continued

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DAIRY AND FOOD DEPARTMENT

REPORT OF COMMISSIONER

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
Clay County—					
Farmer's Creamery Co.	Dickens	A. A. Hanson	Dickens	A. A. Hanson	Dickens
The Langdon Mfg. Co-op. Cry. Ass'n.	Langdon	Mrs. Martin Caldwell	Langdon	Emil Jensen	Langdon
Postoria Co-op. Cry. Co.	Postoria	D. E. Beving	Spencer	E. O. Ballman	Postoria
Webb Creamery Co.	Webb	Birdsall & Anderson	Webb	Harry Stowe	Webb
Clayton County—					
Crown Brand	Elkader	J. T. Leonard	Elkader	J. T. Leonard	Elkader
Farmerburg & St. Olaf Co-op. Cry. Co.	St. Olaf	Wm. Fuhrman	St. Olaf	J. F. Fisher	St. Olaf
Farmer's Co-op. Creamery Co.	Edgewood	H. W. Polz	Edgewood	G. N. Stuerdt	Edgewood
Farmer's Co-op. Creamery Co.	McGregor	Adam Erbe	McGregor	D. H. Clymer	McGregor
Farmer's Creamery Co.	Osterdock	John White	Garber	Carl F. Wilkinson	Osterdock
Garber Farmers Co-op. Creamery	Garber	Jas. McLane	Garber	C. A. Johnson	Garber
Garnaville Creamery Co.	Garnaville	A. J. Kregel	Garnaville	F. W. Hessel	Garnaville
P. H. Hatch Co.	Edgewood	P. H. Hatch	Edgewood	W. I. Dilger	Edgewood
Littleport Farmers Co-op. Cry. Co.	Littleport	G. C. Kugnitz	Elkport	Earl Hatzelbecker	Elkport
Lianna Farmers Co-op. Cry. Co.	Lianna	Elliott Nelson	Lianna	C. V. Bomberger	Lianna
Millville Creamery Co.	Millville	H. G. Friedlein	Turkey River	H. D. Ash	Turkey River
Star Creamery Co.	No. Buena Vista	Mat Ruden	No. Buena Vista	P. J. Vanalstine	No. Buena Vista
Strawberry Point Far. Cry. Ass'n.	Strawberry Point	A. E. Olinger	Strawberry Pt.	Otto F. Weger	Strawberry Point
Union Farmers Co-op. Cry. Co.	Monona	John Salzbann	Monona	P. A. Jorjahl	Monona
Volga Farmers Co-op. Creamery	Volga City	A. L. Moats	Strawberry Pt.	F. F. Gernand	Volga City
Volga Valley Creamery Co.	Mederville	A. R. Dittmer	Strawberry Pt.	G. T. Olinger	Mederville
Clinton County—					
Charlotte Creamery Co.	Charlotte	Martin Nielsen	Charlotte	A. Roedfeldt	Charlotte
Clinton County Central Cry.	DeWitt	O. C. Capper	DeWitt	O. C. Capper	De Witt
Farmer Co-op. Cry. Co.	Toronto	M. G. Yale	Toronto	Levi Tramer	Toronto
Farmer Co-op. Cry. Co.	Wheatland	W. A. Templeton	Wheatland	O. H. Hall	Wheatland
Swift & Co.	Clinton	Swift & Co.	Chicago	Sam P. Richards	Clinton
Wellton Creamery	Wellton	C. B. Berst	Wellton	C. B. Berst	Wellton
Oak Grove Dairy	Clinton	John Gidsen	Clinton	Launke Hansen	Clinton
Sanitary Butter Shop	Clinton	Elmer R. Primoth	Clinton	Ed. Anderson	Clinton
Crawford County—					
Armour Creameries	Denison	J. G. Handford	Denison	J. C. Christiansen	Denison
Dallas County—					
Farmer's Co-op. Cry. & Pro. Co.	Dexter	F. A. Lighty	Dexter	W. L. McEnamin	Dexter
Perry Milk Products Co.	Perry	H. J. Ryner	Perry	W. H. Gray	Perry
Stewart Cry. Co.	Stuart	Wise & Wambold	Stuart	Clairene Wambold	
Deatur County—					
Hutchinson Cream Co.	Leon	Hutchinson Cream Co.	Des Moines		
Delaware County—					
Colesburg Co-op. Creamery Co.	Colesburg	Robert A. Gull	Colesburg	A. L. Landis	Colesburg
Earlville Creamery	Earlville	J. S. Hutton	Earlville	Kenneth Klaus	Earlville
Farmer's Co-op. Creamery Co.	Greeley	A. J. Rector	Manchester	C. N. Baehler	Greeley
Farmer's Creamery Co.	Ryan	C. P. Wendt	Ryan	L. W. Ross	Ryan
Farmer's Mutual Creamery Co.	Sand Springs	E. A. Dunlap	Hopkinton	John L. Hatzelbecker	Hopkinton
Hazel Green Creamery Co.	Ryan, 4 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	Elmer J. Reed	Manchester	Elmer J. Reed	Manchester
Masonville Creamery	Masonville	Krause & Goshing	Masonville	F. W. Krause	Masonville
Petersburg Farmers Cry. Co.	Petersburg	Joseph Dingbaum	Earlville	J. E. Taylor	Dyersville
Silver Spring Creamery Co.	Delhi	A. L. Clark	Delhi	O. J. Jackson	Delhi
Thorp Creamery	Thorp	P. H. Mead	Manchester	Matt McBowell	Manchester
Des Moines County—					
Burlington Creamery	Burlington	C. E. Du Mars	Burlington	E. C. Kenett	Burlington
Burlington Farmers Merc. Co.	Burlington	Lynan Roth	Burlington	H. E. Palmer	Burlington
Burlington Sanitary Milk Co.	Burlington	A. D. Reppert	Burlington		
Dickinson County—					
Lake Park Co-op. Creamery Co.	Lake Park	J. G. Chrysler	Lake Park	E. J. Hagymann	Lake Park
Milford Farmers Butter & Cheese Ass'n.	Milford	Fred W. Horn	Milford	Fred W. Horn	Milford
Spirit Lake Produce Co.	Spirit Lake	H. O. Dean & J. N. Clark	Spirit Lake	Vic Weiler	Spirit Lake
Dubuque County—					
Baldtown Farmers Co-op. Cry. Co.	Baldtown	L. J. Sigward	Waupeton	Al Barker	Waupeton
Beatrice Creamery Co.	Beatrice Cry. Co.	J. N. Kremer	Chicago, Ill.	Emil Donasch	Dubuque
Cascade Creamery Co.	Cascade	Ralph Burke	Dyersville	Claude Miller	Cascade
Farmer's Golden Star Cry. Co.	Dyersville	Frank Fischer	Dyersville	R. V. Baine	Dyersville
Five Point Mutual Cry. Co.	Durango	John Langel	Durango	Frank McLean	Durango
Globe Creamery Co.	Luxemburg	H. S. Hague	New Vienna	Prod. Havens	New Vienna
Hawkeye Farmers Creamery	Zwingle	Wm. C. Altholton	Eppworth	H. F. Roeker	Eppworth
Hickory Valley Creamery Co.	Eppworth	George Thelen	New Vienna	John Nadler	Farley
Holy Cross Creamery Co.	Holy Cross	A. Finetech	Dubuque	Harry E. Williamson	No. Buena Vista
Iowa Dairy Co.	Dubuque	H. P. Smith	New Vienna	M. O. Buroker	New Vienna
New Vienna Central Cry. Co.	New Vienna	J. C. Holeya	Dubuque	Wm. Brosset	Specht's Ferry
Sherrill Mutual Co-op. Cry. Ass'n.	Sherrill				

CREAMERY LIST—Continued

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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 Distributer	P. O. Address of Distributer
Harmon County— Dunlap Creamery Co.		Will Loebben	Dunlap	Will Loebben	Dunlap
Henry County— Franklin Creamery Co.		A. W. Frankhauser Chas. S. Knolls	St. Pausant Mellapells	C. R. Frankhauser	St. Pausant
Howard County— Cresco Creamery Co.		W. H. Elsheld	Cresco	Frank Hall	Cresco
Elma Co-op. Creamery Co.		Mary T. Dunton	Elma	Frank Barnes	Elma
Farmers Co-op. Creamery Ass'n.		J. M. Hughes	Chesler	U. C. Plummer	Chesler
Farmers Co-op. Creamery		W. E. Plummer	Proctor	W. E. Plummer	Proctor
Maple Leaf Co-op. Creamery Co.		W. E. Plummer	Elma	C. W. Nat.	Cresco
Saratoga Creamery		Maple Leaf	Elma	N. W. Graf	Elma
Saratoga Creamery		Harvey Larson	Saratoga	Harvey Larson	Saratoga
Wadena Produce Co.		J. P. Whelan	Elma	Earl Kelly	Elma
Humboldt County— Humboldt Creamery Co.		H. O. Olson	Boile	J. J. Boland	Boile
Wacousta Creamery Co.		W. F. Priche	Chicago, Ill.	Ben Croning	Humboldt Ottawa
Iowa Valley Dairy & Creamery		O. W. Gode	Marengo	O. W. Gode	Marengo
Iowa Valley Produce Co.		A. H. Ayl & Dennis	Marengo	R. O. Smiley	Marengo
B. L. Vail Creamery		B. L. Vail	Williamburg	M. Greenfield	Williamburg
E. E. Montgomery Creamery		E. E. Montgomery	Victor	H. F. Lenoeker	Victor
Victor Creamery		H. F. Lenoeker	South Anna	Charles Nichols	Williamburg
York Creamery		Herman Schwartz	Williamburg		Williamburg
Jackson County— Andrew Co-op. Creamery Co.		J. H. Mohlenhoff	Andrew	C. O. Van Hellen	Andrew
Parmer Union Co-op. Cr. Co.		Brace Verdon	Madison	T. Douglas May	Madison
Manoketa Produce Co.		Earl Boyer	Manoketa	H. C. Korfoed	Manoketa
Manoketa Ice & Ice Cream Co.		Ed Kirchhoff	Manoketa	Ivan F. Wind	Manoketa

REPORT OF COMMISSIONER

Monmouth Creamery Co.	Monmouth	Geo. Hamstra	Monmouth	A. P. Schmeidlach	Monmouth
St. Ignace Creamery	St. Ignace	J. J. Henry	St. Ignace	Geo. P. Dyer	St. Ignace
Springbrook Creamery	Springbrook	A. J. Segus	Springbrook	Ed. Robinson	Springbrook
Sterling Creamery	Lamotte	Heffman Creamery	Lamotte	John M. Hoffman	Lamotte
Spragueville Co-op. Cr. Ass'n.	Spragueville	Wm. F. H. Stromeyer	Spragueville	S. R. Deaton	Spragueville
Jaeger County— Dairymaid Dairy Co.	Newton	Guy M. Lambart	Newton	Ivan Stauffer	Newton
Jefferson County— Lindner-Iverson Co.	Fairfield	R. O. Lindner	Fairfield	J. E. Gilman	Fairfield
Iowa City Produce Co.	Iowa City	F. W. Kemmerle	Iowa City	R. J. Seyerahl	Iowa City
Johnson Co. Creamery	Corvallis	E. C. Capper	Iowa City	E. C. Capper	Iowa City
Jones County— Antler Co-op. Creamery	Antler	P. B. Daly	Antler	O. Bailey	Antler
Farmers Creamery Co.	Center Junction	Paul Paulsen	Center Jct.	M. P. Katta	Center Jct.
Farmers Mutual Cr. Co.	Langworthy	Henry Shaffer	Langworthy	Arthur Hamsholt	Langworthy
Farmers Mutual Cr. Co.	Monmouth	O. W. Brantson	Monmouth	L. D. Mory	Monmouth
Keokuk County— C. E. Brown Cr. Co.	What Cheer	C. E. Brown	What Cheer	William Perry	What Cheer
S. E. Bowman Cr. Co.	What Cheer	S. E. Bowman	What Cheer	Perry Nelson	What Cheer
Kendall County— Hawcroft Co-op. Creamery Co.	Algona	M. P. Chaffetman	Algona	M. P. Chaffetman	Algona
Burt Co-op. Creamery Co.	Burt	Jas. Vacke	Burt	H. E. Thies	Burt
Lafayette Co-op. Creamery Co.	Lafayette	M. E. Warner	Lafayette	Paul Manulley	Lafayette
Penton Creamery Co.	Penton	J. T. Grankbank	Penton	Nick Isenhardt	Penton
Germania Creamery Co.	Lakota	P. C. Bailey	Lakota	Fred Kucker	Penton
Lakota Creamery Co.	Lakota	M. E. Smith	Lakota	H. W. Jarelow	Lakota
Lakota Co-op. Cr. Co.	Lakota	Otto Wehmann	Lakota	J. O. Gaudin	Lakota
Lakota Co-op. Cr. Co.	Lakota	L. C. Knutson	Lakota	Harold Smith	Lakota
Seas City Co-op. Cr. Co.	Seas City	L. C. Knutson	Seas City	L. C. Knutson	Seas City
Thonika Co-op. Cr. Co.	Thonika	M. W. Newell	Thonika	J. C. Knutson	Thonika
Wendy Farmers Cr. Co.	Wendy	John Hutchinson	Wendy	O. J. Knutson	Wendy
Wendy Farmers Cr. Co.	Wendy	John Hutchinson	Wendy	Virgi Knutson	Wendy

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
Lee County—					
Pea Ridge Creamery Co., Inc.	con	D. K. Peters	St. Louis	L. J. Daugherty	St. Louis
Stiff & Co.	con	C. A. Pascoe	St. Louis	W. B. High	St. Louis
Madison County—					
Producers Milk Products Co.	con	Dr. H. J. Pascoe	St. Louis		
Lincoln County—					
Blue Valley Creamery Co., Inc.	con	H. C. Darger	Chicago, Ill.	L. S. Holter	Oscar Rapids
Central City Creamery Co., Inc.	con	J. S. Hutton	Central City	A. L. Blum	Central City
Marion Dairy Station	con	C. E. Hutton	Marion	Paul Wright	Coppen
St. Elmo Wright Milk Prod. Co.	con	St. Elmo Wright	Marion	St. Elmo Wright	Coppen
Springville Creamery Co., Inc.	con	E. M. Hutton	Springville	H. C. Thompson	Springville
Valley Farm Creamery	con	E. R. Henderson	Central City	Perce Henderson	Central City
Walker Co-op. Creamery	con	Theo. W. Hackinson	Walker	A. W. Willander	Walker
Louisiana County—					
Webster & Hutton	con	G. W. Weber-J. H. Hutton	Columbus Jet	N. H. Brooks	Columbus Jet
Linn County—					
Charlton Ice Cream Co.	con	E. A. Anderson	Charlton	Roy Holliday	Charlton
Lyon County—					
Farmers Co-op. Creamery Co., Inc.	con	L. B. Holland	Irwood	Lea Jensen	Irwood
Rock Rapids Creamery Co., Inc.	con	W. J. Porelius	Rock Rapids	C. Berg	Rock Rapids
Madison County—					
Winterset Creamery	con	F. B. Selder	Winterset	F. B. Selder	Winterset
Maricopa County—					
Gaspert Creamery Co., Inc.	con	M. & Jas. Gaspert	Oaklahoma	M. Gaspert	Oaklahoma
Central Creamery	con	J. C. Love	Oaklahoma	Geo. Love	Oaklahoma
Producers Co-op. Dairy Ass'n	con	A. H. Family	Oaklahoma	Harry Martin	Oaklahoma
H. B. Rhydderger Creamery	con	H. B. Rhydderger	Oaklahoma	John Phillips	Oaklahoma

Marion County—					
Knoxville Creamery	con	W. H. Anderson	Knoxville	Chas. McCall	Knoxville
Pella Creamery	con	Ben Kuyk	Pella	C. F. Leithy	Pella
Marshall County—					
Jackson Dairy Co., Inc.	con	P. R. Jackson	Marshalltown	Geo. I. Richardson	Marshalltown
Nelson Butter & Ice Cream Co., Inc.	con	S. C. Nelson	Marshalltown	Thos. Malen	Marshalltown
State Center Farmers Cty. Ass'n	con	Chris Jensen	State Center	Harold Anderson	State Center
Mills County—					
Glenwood Creamery Co., Inc.	con	I. D. McKnight	Glenwood	Fay Adams	Glenwood
Malvern Cold Storage Co., Inc.	con	Bruce Boehler	Malvern	Alen Ireland	Malvern
Mitchell County—					
Little Cedar Creamery	con	C. H. Penny	Little Cedar	L. J. Eilen	Little Cedar
New Haven Creamery	con	Julius Brumner	Osgo	Brumner	Osgo
Rock Creek Creamery	con	W. A. Fritz	Beaverville	W. A. Fritz	Beaverville
St. Angelo Creamery Co., Inc.	con	Herman K. Klemm	St. Angelo	Pete Christensen	Osgo
Stacyville Creamery Co., Inc.	con	W. A. Schmitt	Stacyville	N. M. Dorian	Stacyville
Montrose County—					
M. H. Kruger Creamery Co., Inc.	con	M. H. Kruger	Albia	Jos. Merion	Albia
Montgomery County—					
Lee Blue Ice Cream Co., Inc.	con	Lee Blue	Red Oak	W. F. Quenter	Red Oak
Thier Brothers	con	H. M. & H. F. Tyler	Villous	Frank Wilson	Villous
Monroe County—					
Stiff & Co.	con	C. A. Pascoe	Monroe	R. J. Ford	Monroe
West Liberty Co-op. Creamery	con	Emmet Buckman	West Liberty	W. W. Sampson	West Liberty
O'Brien County—					
Harley Creamery Co., Inc.	con	C. B. Jensen	Harley	J. B. Jensen	Harley
Sheldon Co-op. Creamery	con	George Berthae	Sheldon	J. E. Woodruff	Sheldon
Sutherland Creamery Co., Inc.	con	Adolph Christensen	Sutherland	Chas. W. Green	Sutherland
Oswego County—					
Oswego Co-op. Cty. Ass'n	con	Geo. O. Lister	Shiley	A. M. Hein	Shiley
Page County—					
Traskley & Co.	con	A. M. Beardsley	Shenandoah	J. E. Whitfield	Shenandoah
Stiff & Co.	con	Ed Gilmore	Shenandoah	J. E. Whitfield	Shenandoah
Shenandoah Cty. Co.	con	Mrs. B. M. Tuttle	Shenandoah	Frank Tuttle	Shenandoah

CREAMERY LIST—Continued

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DAIRY AND FOOD 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
Palo Alto County—					
Emmettsburg Farmers Co-op. Cry. Co.	Emmettsburg	Minnie Vanderveelde	Emmettsburg	W. A. Thayer	Emmettsburg
Emmettsburg Farmers Co-op. Cry. Co.	Ruthven	M. P. Junker	Ruthven	M. P. Junker	Ruthven
Lost Island Creamery	Jorgen Anderson		Henry Hanson		
Mallard Butter & Cheese Ass'n	Graettinger	A. P. Anderson	Graettinger	A. P. Anderson	Graettinger
Silver Lake Creamery Co.	Mallard	E. B. White	Mallard	Leo. Nichols	Mallard
West Bend Co-op. Creamery Co.	Ayrshire	C. G. Nelson	Ayrshire	C. G. Nelson	Ayrshire
Modern Dairy	West Bend	Edw. Montay	West Bend	O. W. Dubbs	West Bend
	Emmettsburg	Mrs. E. Smith	Emmettsburg	E. Smith	Emmettsburg
Pocahontas County—					
Laurens Co-op. Creamery Co.	Laurens	R. V. Neville	Laurens	Chas. I. Jones	Laurens
Palmer Creamery Co.	Palmer	Ed. V. Johnson	Palmer	Elmer Hinz	Palmer
Pocahontas Creamery	Pocahontas	Gust Wehler	Pocahontas	Louis Howell	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. P. Dawson	Des Moines	L. S. Pierce	Des Moines
Harding Cream Co.	Des Moines	J. M. Harling	Des Moines	D. H. Fabb	Des Moines
Swift & Co.	Des Moines	O. 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	C. E. Brooks	Brooklyn	Ernest Fulkerton	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. Bedman	Sac City
Scott County—					
Bell-Jones Co.	Davenport	M. V. Jones	Davenport	Frank C. Thill	Davenport
Pioneer Creamery Co.	Davenport	Louis Nielsen	Galesburg	Louis Rasmussen	Davenport
Tri City Butter Co.	Davenport	P. J. Lyngholm	Davenport	Hans Lundstrum	Davenport
Davenport Dairy Products Co.	Davenport	A. C. Norskow & C. C. Merritt	Davenport	A. C. Norskow	Davenport
Shelby County—					
Butter Valley Creamery Co.	Kimballton	A. P. Vitken	Kimballton	Carl Lynge	Harlan
Harlan Ice & Creamery Co.	Harlan	O. G. Ruffcorn	Harlan	E. W. Jensen	Harlan
West Hamlin Creamery Co.	Elk Horn	C. W. Boysen	Exira	William Lousten	Elk Horn
Sioux County—					
Alton Creamery	Alton	J. P. Mueller	Alton	J. P. Mueller	Alton
Farmers Co-op. Creamery Co.	Boydton	Hy Schloetle	Boydton	H. J. Wargowsky	Boydton
Farmers Co-op. Creamery Ass'n	Hull	J. W. Smith	Hull	O. W. Albright	Hull
Farmers Mutual Co-op. Cry. Ass'n	Orange City	Frank Noteboom	Orange City	Wm. Boone	Orange City
Farmers Mutual Co-op. Creamery	Sioux Center	A. Youker	Sioux Center	A. Youker	Sioux Center
Farmers Mutual Creamery Co.	Hospers	John Rootzel	Hospers	P. H. Youker	Hospers
Rock Valley Creamery Co.	Rock Valley	John Hannink	Rock Valley	Paul Moerman	Rock Valley
Story County—					
Dairy Dept. Iowa State College	Ames	M. Mortensen	Ames	F. C. Hinge	Ames
Farmers Co-op. Creamery Co.	Slater	O. E. Frousdhal	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	O. E. Rod	Roland	L. H. Larsen	Roland
Story City Farmers Co-op. Cry.	Story City	Martin C. Hanson	Story City	J. M. Gertsen	Story City
Zearing Creamery Co.	Zearing	C. P. Bean	Zearing	Carl M. Peterson	Zearing
Tama County—					
Garwin Creamery	Garwin	George D. Sheldon	Garwin	Dale Sheldon	Garwin
J. H. Nel Creamery Co.	Tama	L. Nielsen	Tama	L. Nielsen	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.	Creston	Armour & Co.	Chicago, Ill.	A. F. Blaschke	Creston
Boyd Creamery Co.	Creston	J. I. Boyd	Creston	Vernon Anderson	Creston
Swift & Co.	Creston	C. A. Peacock	Chicago, Ill.	Harry McAllister	Creston
Wapello County—					
F. G. Buxton Creamery Co.	Ottumwa	F. G. Buxton	Ottumwa	John McLane	Ottumwa
Swift & Co.	Ottumwa	Geo. M. Foster	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		
Washington County—					
Brighton Ice Cream Co.	Brighton	Ed Hartman	Washington	Neal G. Whisler	Brighton
Reister Creamery	Washington	W. S. Reister & Son	Washington	Harold J. Hays	Washington

REPORT OF COMMISSIONER

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CREAMERY LIST—Continued

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DAIRY AND FOOD 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
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	Ft. Dodge	H. Jensen	Ft. Dodge
Gold Bar Creamery	Fort Dodge	S. H. Dencker	Ft. Dodge	Rudolph Dencker	Ft. Dodge
Gowrie Co-op. Creamery Co.	Gowrie	F. E. Magnusson	Gowrie	Chris Sorenson	Gowrie
Winnebago County—					
Buffalo Center Co-op. Cry. Co.	Buffalo Center	F. Brahus	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	Ole T. Groe	Lake Mills	Carl Hoviand	Lake Mills
Leland Co-op. Creamery Co.	Leland	Edd O. Peterson	Leland	W. M. Treeten	Leland
Lincoln Co-op. Creamery Co.	Rake	A. A. Sheldon	Rake	L. K. Bjork	Rake
Seaville Creamery Ass'n	Seaville	J. E. Hermanson	Seaville	Bennett Lovik	Seaville
Thompson Co-op. Creamery Co.	Thompson	N. K. Anderson	Thompson	Walter Thompson	Thompson
Vinje Creamery Ass'n	Vinje	A. C. Engelbreton	Seaville	Gay Hovland	Seaville
Winneblesh County—					
Burr Oak Farmers Co-op. Cry.	Burr Oak	Chris Pieper	Burr Oak	J. H. Bakken	Burr Oak
Calmar Creamery Co.	Calmar	A. A. Olson	Calmar	N. O. Bendickson	Calmar
Decorah Farmers Ice Cave Cry. Ass'n	Decorah	V. O. Bendickson	Decorah	P. J. Lussan	Decorah
Pestina Co-op. Creamery Co.	Pestina	I. B. Huinker	Pestina	Geo. Haberman	Pestina
Huberman Creamery	Pt. Atkinson	George Haberman	Pt. Atkinson	P. J. Bine	Pt. Atkinson
Highlandville Creamery Co.	Highlandville	Idine & Akre	Highlandville	Leon Qualley	Highlandville
Lincoln Creamery Co.	Ridgeway	O. O. Rue	Ridgeway	George Ryerson	Ridgeway
Nordness Creamery Co.	Nordness	G. O. Remmen	Nordness	Helmar Haugen	Nordness
Pleasant Co-op. Creamery Co.	Pleasant	N. O. Faldet	Decorah	O. O. Hauge	Decorah
Silver Springs Creamery Co.	Silver Springs	H. P. Nicholson	Ostian		Ostian
Woodbury County—					
Blue Valley Creamery Co.	Sioux City	H. C. Dargen	Chicago, Ill.	A. C. Z. Mortensen	Sioux City
Fairmont Creamery Co.	Sioux City	E. T. Berger	Omaha, Nebr.	John Batten	Sioux City
Hanford Produce Co.	Sioux City	H. H. Whittemore	Sioux City	M. O. Wheelock	Sioux City
Swift & Co.	Sioux City	Mr. Vance			
Worth County—					
Farmers Butter & Cheese Ass'n	Northwood	Oliver Knutsen	Northwood	H. O. Stendell	Northwood
Farmers Co-op. Cry. Ass'n of Tenn.	Northwood	D. K. Starre	Elmer Anderson	Peter Reisdahl	Northwood
Farmers Creamery	Grafton	E. M. Glasel	Grafton		Grafton
Farmers Creamery Co.	Kennett	Hilmen Gaarder	Kennett	Selmer Nelson	Kennett
Farmers Creamery	Manly	G. J. Mueller	Manly	Ed. Anderson	Manly
Fertile Co-op. Dairy Co.	Fertile	Roy Larsen	Hanlontown	J. A. Johnson	Fertile
Hartland Creamery Co.	Hartland	E. A. Gudvangen	Hanlontown	E. A. Gudvangen	Hanlontown
Joice Creamery Co.	Joice	N. W.	Northwood	N. O. Dahlen	Northwood
		E. E. Breen	Joice	J. H. Hagen	Joice
		L. L. Skutle			
Wright County—					
Clarion Creamery	Clarion	M. Anderson	Clarion	C. W. Larson	Clarion
Farmers Co-op. Creamery Co.	Belmond	G. F. Eiler	Belmond	Otto Jennings	Belmond
Farmers Creamery Co.	Dows	H. J. Iverson	Dows	A. O. Larson	Dows
Goldfield Co-op. Creamery	Goldfield	Geo. M. Nelson	Goldfield	D. Goodrich	Goldfield

cenCentral Churning Plant. eCo-operative. sStock. IIndividual. pPartnership.

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	F. E. Austin	Postville
Hanover Cheese Factory	Monona, W.	T. J. Fitzgerald, Mgr.	Luana, W.	Ed. Rembrandt	Monona, W.
Volney Farmers Cheese Factory	Monona, W.	Mrs. Dell Row, Sec.	Luana, W.	R. Gerber	Monona, W.
Humboldt County—					
Pioneer Cheese Factory	Renwick	W. F. Keller, Prop.	Renwick	W. F. Keller	Renwick
Story County—					
Nevada Cheese, Ice Cream, Butter Co.	Nevada	A. Contri & C. H. Chase	Nevada	S. Palmieri	Nevada

*Closed temporarily.

IIndividual.

CONDENSED MILK LIST

Name of Factory	Location	Name of Proprietor	Address of Proprietor
Carnation Milk Products Company	Waverly	Paul R. McKee, Secretary	29 St. State Street, Chicago, Ill.
Perry Milk Products Company	Perry	H. J. Ryner, President	Perry, Iowa

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REPORT OF COMMISSIONER