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TWENTY-SIXTH ANNUAL REPORT

OF THE

STATE DAIRY COMMISSIONER

TO THE

GOVERNOR OF THE STATE OF IOWA

FOR THE YEAR 1912

W. B. BARNEY
STATE DAIRY COMMISSIONER

PRINTED BY ORDER OF THE GENERAL ASSEMBLY

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1912

LETTER OF TRANSMITTAL

TO HIS EXCELLENCY, B. F. CARROLL,

Governor of Iowa.

Sir:—In compliance with the law, I have the honor to submit herewith the twenty-sixth annual report of the Dairy and Food Commissioner.

W. B. Barney,

Dairy and Food Commissioner.

Des Moines, November 6, 1912.

IOWA STATE DAIRY AND FOOD COMMISSION.

W. B. Barney.....Commissioner
 B. C. Iliff.....Deputy Commissioner
 O. P. Thompson, M. D.....State Dairy Inspector
 J. J. Ross.....Asst. Dairy Commissioner
 T. A. Clarke.....Asst. Dairy Commissioner
 G. H. Tellier.....Asst. Dairy Commissioner
 P. W. Crowley.....Asst. Dairy Commissioner
 H. E. Forrester.....Asst. Dairy Commissioner and Food Inspector
 L. L. Flickinger.....Asst. Dairy Commissioner and Food Inspector
 M. E. Flynn.....Food Inspector
 C. Ottosen.....Food Inspector
 E. C. Hinshaw.....Food Inspector
 S. O. Van DeBogart.....Food Inspector
 J. W. Milnes.....Food Inspector

EXPENSES OF THE DAIRY AND FOOD DEPARTMENT OF THE OFFICE OF DAIRY AND FOOD COMMISSIONER FOR THE YEAR ENDING NOVEMBER 1, 1912.

Commissioner's salary	\$ 2,700.00	
Commissioner's expense	450.36	
		\$ 3,150.36
Deputy Commissioner's salary.....	1,800.00	
Deputy Commissioner's expense.....	76.12	
		1,876.12
Dairy Inspector's salary.....	1,600.00	
Dairy Inspector's expense.....	1,291.81	
		2,891.81
Asst. Commissioner's salary.....	1,400.00	
Asst. Commissioner's expense.....	856.62	
		2,256.62
Asst. Commissioner's salary.....	1,400.00	
Asst. Commissioner's expense.....	970.83	
		2,370.83
Asst. Commissioner's salary.....	1,600.00	
Asst. Commissioner's expense.....	1,123.64	
		2,723.64
Asst. Commissioner's salary.....	1,600.00	
Asst. Commissioner's expense.....	885.61	
		2,485.61
Asst. Commissioner and Food Inspector's salary...	1,599.98	
Asst. Commissioner and Food Inspector's expense..	1,047.98	
		2,647.96
*Asst. Commissioner and Food Inspector's salary..	186.64	
*Asst. Commissioner and Food Inspector's expense..	129.37	
		316.01
Food Inspector's salary.....	1,591.11	
Food Inspector's expense.....	717.98	
		2,309.09
Food Inspector's salary.....	1,453.33	
Food Inspector's expense.....	876.10	
		2,329.43
Food Inspector's salary.....	1,600.00	
Food Inspector's expense.....	971.94	
		2,571.94
Food Inspector's salary.....	1,600.00	
Food Inspector's expense.....	712.58	
		2,312.58

*Does not include a complete year.

Food Inspector's salary.....	\$ 1,566.68	
Food Inspector's expense.....	829.15	2,405.83
Clerk hire (Dairy and Food).....	750.00	
Clerk hire (Dairy and Food).....	750.00	
Clerk hire (Dairy and Food).....	150.00	
Clerk hire (Dairy and Food).....	145.00	
Janitor hire (Dairy and Food).....	\$ 780.00	1,795.00
Milk Agent's fees.....	\$ 2,649.00	780.00
Milk Agent's expense.....	162.75	
Office expenses, miscellaneous.....		2,811.75
Telegraph, telephone, express, drayage.....		421.34
		313.41
		\$ 38,769.33
Less salaries that are not paid from the Dairy and Food appropriation		24,272.74
		\$ 14,496.59

FEES EARNED BY THE DAIRY AND FOOD COMMISSION FOR THE
YEAR ENDING NOVEMBER 1, 1912.

Inspection fee tags.....	\$ 11,434.52	
Seed analysis	71.00	
Feeding-stuffs analysis	5.00	
Stock food licenses.....	1,800.00	
Milk licenses	2,191.00	
Babcock test licenses.....	6,547.50	
		*\$22,049.02

*Fines for violation of the food and dairy laws are paid into the school fund of the county where prosecution is brought. The amount so collected does not appear in the above statement.

REPORT OF COMMISSIONER

In looking up data in this office, we find that the first report made by the Dairy Commissioner was published with the proceedings of the Agricultural Society and that this report covered six months and was under date of November 1, 1886. On November 1, 1887, the Honorable H. D. Sherman made his second report to the governor, Wm. Larrabee, covering the first eighteen months following the enactment of the Dairy Law. This report showed that one assistant or clerk was employed. Little data had been kept as to the amount or value of Iowa dairy products up to this time. The report does not show much of promise in the situation.

Later enactments of the Legislature made this Department responsible for the enforcement of the following laws:

PURE FOOD LAW
WEIGHT AND MEASURE LAW
AGRICULTURAL SEED LAW
CONCENTRATED FEEDING STUFFS LAW
CONDIMENTAL STOCK FOOD LAW
PAINT AND LINSEED OIL LAW
TURPENTINE LAW

The foregoing statement of expenses of this Department includes the salaries of the Commissioner, Deputy Commissioner, State Dairy Inspector, four Assistant Dairy Commissioners, two Assistant Dairy Commissioners and Food Inspectors, five Food Inspectors, and the clerical help in both Dairy and Food Departments. The janitor though paid by this Department does the work in the Veterinary Department also.

We have not thought best to discuss matters in this report pertaining to the enforcement of these laws only as they are incidentally connected and have to do with the dairy work. It is obvious to all that a good sanitary law would be most helpful in bringing about better conditions in dairying as well as in all other branches of the various industries that are connected with food

products. Therefore, our recommendation that a sanitary measure be enacted.

Up to the time of the Civil War a very large proportion of our people lived on farms. They had very little to sell and bought less. Many of us recall the days when a little sugar, tea, coffee and spices, was about all that we bought of the grocer or at that time, the general store. There were practically no eatables offered for sale in cans or cartons, as many of the products that the housewife depends upon her grocer for now, were then prepared on the farm or in the home. The farmer raised his own grains taking them to the local mill to be ground, the miller taking his share in the shape of toll for the grinding, the farmer taking what was left, if there was any. Even in those days protection by the enactment of a just law would have been helpful. The farmer raised his own meats. Cattle, hogs and sheep were killed on the farm. The packer was practically unknown as the farmer cured his supply of meat during the winter for the ensuing year. Creameries had not been thought of, as all butter was made on the farm. We had no reason for the enactment of an "oleo" law as this product was not known.

Conditions have changed in the last half century and we have little idea of the man who raises our grains or grinds our flour, or who our butcher is, or who furnishes us with our butter, eggs, and poultry. The man who produces it to sell has little knowledge of who will consume it. This is a commercial age and naturally the man who has any kind of a product for sale desires to get out of it all that he possibly can. The larger percentage of the people engaged in the business are selling dairy and food products without misrepresentation or adulteration. There are people who for the sake of profit are unscrupulous enough to adulterate and misrepresent these products. Therefore, the necessity of enacting laws and the appointment of officers, whose duty it is to see that these laws are enforced as a matter of protection to the people.

HELPFUL ACTS OF THE THIRTY-FOURTH GENERAL ASSEMBLY.

The last legislature did much to strengthen the dairy and food laws as well as making possible the enforcement of all laws by

giving the commissioner power to withhold or revoke licenses of the operators of the Babcock Test or that of a milk dealer. Great discretion should, and has been, used in this work and only in extreme cases have we felt obliged to revoke these licenses. The great good that results from this kind of a law is that it may be used as a "Big Stick" in obliging offenders to comply with the law or discontinue business.

INCREASED REVENUE FROM LICENSES.

Two thousand, six hundred sixty-nine licenses to operate the Babcock test were issued the first year ending June 1, 1912. As a source of revenue this measure brought to the State Treasury \$6,682.50. The amount will undoubtedly reach \$7,000.00 this year. The increased revenue of \$744.00 from milk licenses (the law having been changed so as to apply to all municipal corporations instead of to cities of 10,000 or more people) should be added to the above, making a net increase of \$7,426.50. This would pay the salary and expenses of three extra men.

The addition of two Assistant Dairy Commissioners in the Department by the Thirty-Fourth General Assembly has enabled us to care for the work in a much more satisfactory manner than ever before. The appointment of inspectors for the purpose of doing both dairy and food work was something of a departure from former custom, and the results have been most satisfactory.

EDUCATIONAL WORK.

The records show that speakers from this Department have addressed over three hundred meetings within the last year. We have assisted the Iowa State Dairy Association by furnishing men as speakers on Dairy Trains. Many of the addresses have been before Farmer's Institutes, Dairy Picnics, Pure Food Shows, Women's Clubs, etc.

INCREASE IN NUMBER OF CREAMERIES.

We have assisted in the organization of a number of new creameries as well as to help those that have needed assistance of various kinds. Our last report shows that Iowa had 494 creameries. This report shows an increase of 18 or a total of 512. We think this a very creditable showing. No branch of Iowa's manufacturing industries has more to do with the general prosperity of our people than this.

IOWA AS A BUTTER STATE.

We have tried to present for consideration of the Iowa Dairy-men a few concrete facts like the following:

Iowa produces annually 100,000,000 pounds of creamery butter, which at 30 cents per pound is worth \$30,000,000.00.

The average Iowa cow produces 140 pounds of butter fat annually. An increase of fifty pounds per cow would mean an additional income to Iowa of \$18,750,000. An increase of 100 pounds per cow would mean a net increase of \$37,500,000.

The best Iowa county produces 7,542 pounds of creamery butter per square mile. If the entire state produced an equal amount on each square mile, Iowa would yield annually 418,558,875 pounds of butter worth \$125,567,622.50 or more than four times its present output.

Herein lies Iowa's opportunity.

Is it not worth while?

We have tried to show that by the use of the scales and Babcock test and the weeding out process with a little better care and feed they could easily increase the production of their herd fifty pounds per cow per year. That by the use of a pure bred dairy sire they could breed up their herds and make a still further increase of fifty pounds per cow, making a net increased income of \$37,500,000.00. It is in the last three or four years only that any considerable number of dairy sires have been shipped into the State. It is easy to understand that it takes several years before an increase in our production will be shown as most of the heifers, the result of the first cross would not be bred to freshen before they

are about three years of age. We maintain that a herd bred up by the use of a pure bred dairy sire is for all practical purposes, so far as the production of dairy products is concerned, as good as a pure bred herd, especially after four or five crosses. We always advise the use of a pure bred sire and never discourage the buying of some pure bred females if the dairyman has a few hundred dollars left after buying the sire.

SAVE THE CALVES.

We think the tendency among the dairymen to rush the calves to market as soon as they are dropped deplorable. We are greatly limiting the supply of dairy cows by this course. There is already a shortage of she stuff and the only remedy we know of is that of saving the larger share of the best heifer calves. Prices for good dairy cows were never higher nor the demand better than at this time, and if we wish to come anywhere near keeping up the supply for the future the heifers at least must be spared. If some change does not come at once and more calves can be raised the price of cows will be prohibitive, and as a result our supply of dairy products will be materially reduced.

NEW BUILDING A NECESSITY.

New quarters for this Department should be provided. Within the last two or three years the work of this Department has more than doubled. The help has, and will have to be increased as extra work is added. Permit me to call attention to the following, which is a fair indication of the growth of the department: The receipts turned over to the State Treasurer for 1909 were \$9,593.24; for 1910, \$17,435.32; for 1911, \$20,892.97; for the first nine months of 1912, January 1st to October 1st, \$18,422.88. Besides the above, all the fines under the Pure Food Law are turned into the school fund in the different counties where prosecutions are made.

The quarters now occupied by this Department were never suitable to the work, and at this time are too congested to permit the best service. There are so many other departments in the Capitol

that are overcrowded that we sincerely hope that the Thirty-Fifth General Assembly will see the necessity of the erection of a new building with the least possible delay.

NEW MEASURES RECOMMENDED.

The enforcement of the Weight and Measure Law was added to the duties of this Department late in the last session of the General Assembly. This has given us at least 25 per cent more work than we formerly had to look after. No additional help or increase in appropriation was given on this account. The enactment of an entirely new weight and measure law, a cold storage law, and a sanitary measure similar to the one passed by the Senate at the last session are recommended as absolutely necessary. A net weight law would be most helpful in correcting some of the evils now existing.

If the members of the Senate and House could be impressed with the fact that there is such a general demand for these laws as we know exists, they would not question the advisability of their enactment without delay.

SILOS.

Twenty-five years ago the silo was almost an unheard of thing in Iowa. The rapid increase in the price of land has brought about a condition which makes the farmer of today study economic problems in connection with his business the same as any other manufacturer. Leakages or wastes must be guarded against if the farmer is to make a profit on his high-priced land.

The dairy cow is the most economical producer of human food on the farm if fed and cared for in an intelligent manner. The milk of a cow that produces 10,000 pounds yearly contains 8,710 pounds of water, 290 pounds of fat, 485 pounds of sugar, 340 pounds of protein and 75 pounds of ash. Therefore, it is evident that the cow must consume large quantities of succulent feed to produce economically. The grass in summer provides her with this succulent feed but if the farmer is without a silo his cows are de-

prived of succulent feed for winter use. No man keeping six or more cows can afford to be without a silo regardless of the first cost.

Today the silo is no longer an experiment and practically all the leading dairymen of the country are using them. Some seven or eight thousand new silos have been built in Iowa alone during the past year which is sufficient evidence that they are a success. We are not suffering today in the rural districts for the want of finding new things so much as we are for the simple application of the things we already know. Practically every farmer admits that the silo is a good thing but he puts off till tomorrow what he should do today and the waste of crop continues from year to year. In the corn belt where stalks are allowed to stand in the field, 40 per cent of the crop is wasted. It has been estimated that an acre of corn put up in the silo has a value of \$45.00 while the same standing in the field and husked has a value of \$27.00.

Thus it can be seen that the silo nearly doubles the value of the corn crop.

In feeding silage with alfalfa or clover hay, we have practically a balanced ration all raised on the farm. Experiments have been conducted at the Kansas and other stations which show that the grain ration can be cut down one-half the usual amount where alfalfa or clover hay and ensilage are fed. Ensilage always plays a prominent part in the economical ration of most farm animals and may the day be not far distant when the silo will be as common a sight on the Iowa farm as the corn-crib is today.

CITY MILK INSPECTION.

While there is yet much room for improvement, we do feel that the cities of Iowa today are receiving better milk than at any previous time. (We quote a recent editorial in the Breeders' Gazette of Chicago) "The city milk consumer wants clean milk and should have it. There is a marked and very healthy demand for better milk by the Board of Health in practically all cities and many of them are considering the enactment of regulations and restrictions for the producer of milk. Sometimes these are not wise, sometimes they remember that to conform to their rules requires an

increased outlay and a higher production cost but most times they do not. When the city is ready to pay for clean, first class milk, it will be forthcoming, but the cheap milk and the clean, rich milk which most cities demand, is an impossible combination. It is not fair to the dairyman to ask that they furnish a superior product at an inferior price. The real solution for less bacteria is more cents per quart."

We feel that by the use of the government score card, we are enabled to efficiently improve the sanitary condition of the dairies and instruct the dairymen in the better care of their product. We surmise that the marked agitation for pure milk in Chicago is causing the cities of Iowa to wake up to the importance of the supervision of the milk supply, but we should remember that the conditions in the smaller cities are not what they are found to be in cities the size of Chicago, in this: that in the average Iowa city the milk is *consumed* before it is 24 hours old and probably 50 per cent of it within 12 hours from the time it is milked; whereas, in these larger cities where the milk is shipped in from long distances, the milk is usually 24 hours and often 48 hours or more old before it *reaches the consumer*.

There are two cardinal points that control the wholesomeness of milk, one is its age and the other the temperature at which it is kept and while the latter condition is overcome in a measure by the use of refrigeration cars, the age of the milk in these larger cities is always much increased before consumption and while our problems are similar, it is much simplified. In these towns and small cities, the bulk of the milk is produced within a short hauling distance and much of it even within the corporation.

The market milk question would be greatly simplified if, as Dr. Jacobi, in his President's address before the last meeting of the A. M. A., states that practically all mothers could nurse their own infants if they would and the use of artificial feed for infants could thus be eliminated. His remark that an action for homicide should be instigated in every case of death of a baby from want of its own mother's milk against the doctor, the nurse or the mother, seems harsh, but it is doubtless true.

We recognize the fact that in a large sense the question of clean milk is a public health question but we must also remember that it has an economic side and that the most efficient way to induce the dairyman to produce a sanitary milk is to increase their profits

by furnishing for them a market whereby it may replace the inferior sort. Sanitary milk cannot be produced with the average Iowa cow, delivered and sold on the market today for less than 8 1-3 cents per quart. From personal observation I should estimate that 85 per cent of our market milk is sold for a little over 7 cents per quart (14 quarts for \$1.00) or less. Possibly 14 per cent at 8 1-3 cents per quart (or 12 quarts for \$1.00) and only a fraction of 1 per cent above this price. Market milk has not increased in price proportionate to other dairy products in recent years.

The salutary effect of milk inspection is well illustrated by reference to the experience of the city of Rochester, N Y. During the five years from 1887 to 1892 the infant mortality of that city ranged from 740 to 900 per year. In 1892 efficient milk inspection was inaugurated and the infant mortality rapidly dropped until during the years from 1897 to 1904 it ranged between 400 and 460 per year.

We have been using quite extensively the government score card and we find that the average score of dairy farms in Iowa is less than 45 per cent out of a possible 100 per cent. This, of course, is quite low but not so low as that of the dairies supplying milk to Chicago which is nearly five points less and the dairies supplying the city of Washington score an average of only 43 points. While the use of the score card system is of recent date, all familiar with its use agree that by the proper use of this system, the dairies so scored do improve often quite materially from one to a subsequent visit of the inspector. By its use each particular item is gone over in detail and record made of conditions found and while some might be inclined to give undue importance to some one thing, this method gives to each item its proper and due weight and no more. In the city of Des Moines all the dairies supplying milk to the city were scored for the first time some two years ago and we have just recently finished scoring them again and find that the average increase of the score of these dairies has been in this time 13 points (or from 46 to 59).

The problems in market milk vary with the season. For instance; in the winter time when cows are housed, the sanitary conditions of the barn, (including the kind of floor, ventilation, provisions for light) have a marked influence on the quality of the milk, whereas; in the summer, this factor does not enter largely into the question for the reason that the cows are stabled only at milking

time. But in the summer, we have the fly to deal with. This is a very unwelcome companion to the cow and only recently have the people been awakened to the fact that the fly is the one great menace to the public health. We find as much or more visible dirt or sediment in milk during the summer time than during the winter season but this summer sediment is not so deleterious to the milk as that of winter. The sediment in summer is usually caused by the cow wading or standing in water and fighting flies and throwing the muddy water on her udder and belly. This dries and at the time of milking falls into the pail in the form of black dirt or sand, whereas, the sediment found in winter's milk is usually dried manure.

The proper food for the infant mammal be it man, horse, cow, dog or sheep or porpoise is the milk of its own mother, but with the human infant, the best and most available substitute for its mother's milk is the milk of the cow. The ideal milk is that produced from perfectly healthy cows and handled in a strictly sanitary manner, milked clean, cooled immediately after milking and consumed at the earliest possible moment thereafter.

There is a tendency to demand that market milk shall be pasteurized. The attitude of this department on the question of pasteurization stated briefly is this: In the absence of a strictly first class raw milk, pasteurization is advisable and when we speak of pasteurization we mean efficient pasteurization. Efficient pasteurization is that process whereby all pathogenic germs in the milk are rendered inert and harmless by heating the milk to the lowest possible point. This can be accomplished by heating the milk to a temperature of 145 degrees F. for 25 to 30 minutes. Commercial pasteurization is usually not efficient pasteurization but is used simply for the purpose of killing the lactic acid bacteria and thus preventing the souring of milk. A milk that in its raw state could not be sold and delivered to the customer from the fact that it would become sour in a few hours can be pasteurized and remains sweet for a period of 24 to 48 hours. Pasteurization, however, does not make dirty milk clean milk. That the mother may be sure that the milk is properly pasteurized, we recommend the home pasteurization of milk. This is not a laborious task nor does it require great technical skill or extensive apparatus to pasteurize the amount of milk used by the baby. We feel that we should in-

sist upon this process being used particularly during the hot months of summer. It can be accomplished thus:

See that the milk is sweet and clean when delivered to you. Place the bottle in a pail or similar receptacle, holding at least as large a volume of water as you have of milk. Place under the bottle a perforated can cover or some similar device to keep the bottom of the bottle from immediate contact from the bottom of this pail. Place this pail, filled with water up to near the level of the milk in the bottle, over the flame, and when the water has boiled, but not the milk, remove immediately from the stove and allow the milk bottle to stand in this water for twenty-five minutes. Then remove and cool as quickly as possible to 50 degrees F. or less. The milk bottle should be placed in a clean refrigerator in the compartment with the ice and not with the other articles of food in the refrigerator.

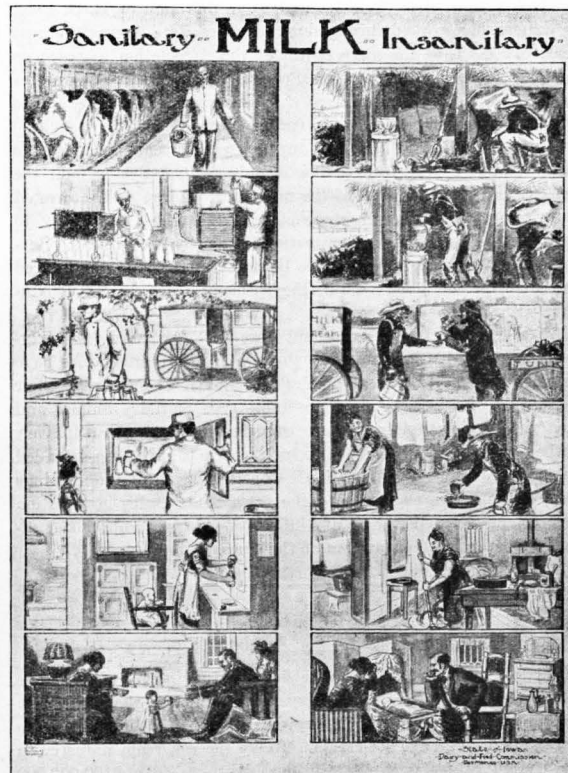
The consumer is apt to think there is nothing he can do. Observation teaches that when the patrons of the milk man are in the habit of visiting his dairy farm and looking over the conditions there he is apt to be more particular to keep things looking clean than he otherwise would. If you are a patron of his, it is certainly your privilege to do this and particularly if you have children in your family it is a duty you owe to yourself and them. If the dairy is clean, they will welcome such inspection and if it is dirty, they are apt to clean up. Ask your milkman for explicit instructions for finding his farm or the farm where the milk is produced. If he is expecting you, it often has the same effect as though you actually should go out.

Market milk should be delivered in bottles. You should have a place where the milkman may leave it out of the way of cats and dogs and in a cool, shady place. These bottles should be taken into the house as soon as delivered, put under the cold water faucet, and washed off on the outside. Then loosen the cap and place the bottle in the refrigerator or on the ice, inverting over the mouth of the bottle a common teacup. We score the dairyman for uncleanliness, and bad smelling surroundings, but it is a fact that most family refrigerators would be benefitted by more frequent cleaning and airing. The medical milk commission of the city of New York visited 4,300 homes in that city and found milk improperly cared for in 4,100 of these homes.

Table showing the number of milk licenses issued to city milk dealers for each year from 1905 to 1912. In each case the year ends on July Fourth.

	1905	1906	1907	1908	1909	1910	1911	1912
Number ...	827	803	1006	1078	1149	1106	1310	1908

Cities	Population	Inspectors
Boone	10,347	M. Healy, M. D.
Burlington	25,741	W. F. Schroeder
Cedar Rapids	32,811	Phil Pray
Clinton	25,577	
Council Bluffs	29,292	Peter Smith
Davenport	43,028	H. J. High
Des Moines	86,368	J. Howard Sasseeen
Dubuque	38,494	F. J. Kennedy, D. V. S.
Fort Dodge	15,543	D. C. Benjamin
Keokuk	14,008	W. P. Sherlock, M. D.
Iowa City	10,091	C. S. Chase, M. D.
Marshalltown	14,000	J. A. Turner
Mason City	11,230	A. L. Wheeler, M. D.
Muscatine	16,178	John Tillie, D. V. S.
Ottumwa	22,012	B. W. Van Der Veer
Sioux City	47,848	E. C. Pape
Waterloo	26,693	W. W. Wyant



IOWA STATE DAIRY ASSOCIATION.

The Iowa State Dairy Association, first with Hugh G. Van Pelt as Expert, and since June 1st under the direction of E. S. Estel as Expert, has worked throughout the entire state during the past year. It has been the main object of the Association to reach as many farmers and dairymen as possible and give a general insight into the dairy conditions as they now exist in the state, and to advocate practical methods for future improvement.

The most important activities during the past year have been the Dairy Trains operating over the Illinois Central System and the Rock Island System north of the main line. Large and interested crowds met the trains at every stop and listened attentively to the talks and practical demonstrations given by the experts. Seventy-six towns were visited on the Illinois Central and one hundred and nine on the Rock Island, the speakers reaching 130,000 interested Iowa farmers.

Aside from the Dairy Trains, speakers were furnished for thirty-eight Farmers Institutes during the winter. The creameries have been holding meetings and picnics all summer to encourage their patrons to first raise a more profitable type of dairy animal and then produce a better grade of cream for the factory and in view of these pressing needs thirty-two such meetings have been attended by speakers from the Association. Considering all of the meetings held, the speakers representing the Iowa State Dairy Association have attended two hundred and fifty-five meetings and talked directly to over 150,000 farmers of the state.

ICE-CREAM.

Not long ago almost the entire dairy output of Iowa was made into butter and cheese. The dairy industry in this state has been growing rapidly and with its growth has come an equal increase in the manufacture of ice-cream. Today the ice-cream industry in the United States is worth considerably more than \$100,000,000 annually. The profits to be derived in using cream for ice-cream when compared with butter making are almost double, thus it is an incentive for the small creamery man to use a part of his cream supply for ice-cream purposes.

During the past year the increase in the number of factories in this state has been great and the ice-cream expert in this Department has been busy regulating the output and giving assistance to all factories that have so desired. The coming year the Department expects to enforce the law regarding the standard of fat in ice-cream and will continue to lend all assistance possible to the ice-cream makers throughout the state.

A simple method for standardizing and one that can be applied by any maker is the "Square Method." It can be applied to any problem which may come up. For example, the cream you wish to standardize tests 39 per cent and the milk on hand 3.7 per cent, how much cream and how much milk will it be necessary to mix in order to get 20 per cent cream?

39	16.3
20	
3.7	19.

In the center of the square place the per cent to which it is desired to standardize, at the upper left hand corner place the figure representing the richness of the cream used, and at the lower left hand corner place the per cent of fat in the milk. In order to get the amount of each to use in standardizing, all that is necessary to do in order to get the proportions is to simply subtract the 20 from the 39 giving 19, or the parts of milk necessary to use, and from 20 subtract 3.7 leaving 16.3, the number of parts of cream to use with 19 parts of milk. From this we see that in order to produce 20 per cent cream from 39 per cent cream and 3.7 per cent milk, it is necessary to use for every 16.3 pounds of cream, 19 pounds of milk, giving a total of 35.3 pounds of 20 per cent cream.

From this proportioning, it is possible to work any problem in standardization. If you wished 400 pounds of 20 per cent cream and had 39 per cent cream and 3.7 per cent milk to make it from, it is necessary to divide 400 by 35.3 which will give a factor with which to multiply the number of pounds of cream and milk required to make 35.3 pounds of 20 per cent cream, the sum of which will give 400 or 400 pounds of 20 per cent cream.

Another example using the same figures: Suppose you had 59.5 pounds of 39 per cent cream and wished to know how much 3.7 per cent milk would be required to reduce it to 20 per cent. This can be determined by dividing 59.5 by 16.3, the amount of cream

used for every 19 pounds of milk giving a factor which multiplied by the 19 will give the number of pounds of milk to use.

Some will ask, "How is this method used in standardizing cream with skimmed milk?" The method is just the same, the skimmed milk being figured at zero per cent.

$$\begin{array}{rcl} 39 & & 20=20-0 \\ & 20 & \\ 0 & & 19=39-20 \end{array}$$

The proportions are the same as before for every 20 parts cream 19 parts skimmed milk are required to reduce it to 20 per cent.

It sometimes may occur that creamerymen may want to know how much skimmed milk it will be necessary to remove from an amount of whole milk in order to get 20 per cent cream. The square method still holds good except the proportions are a little different. Given 3.7 per cent milk to reduce to 20 per cent cream.

$$\begin{array}{rcl} 3.7 & & 20 \\ & 20 & \\ 0 & & 16.3 \end{array}$$

16.3 pounds of skimmed milk must be removed from each 20 pounds of 3.7 per cent milk in order to get 20 per cent cream.

Along this same line, a large number of the makers called upon have asked the question, "What must the cream used in ice-cream test so that when it is made up the ice cream will come up to the required standard?" The sugar, flavoring material, and filler added to the cream adds weight to the mix—consequently, a reduction of the percentage of butter fat. Just how much the cream will be reduced depends upon the amount of ingredients added.

A rule that can be followed to determine the percentage of cream which must be used in order to conform to the standard, is as follows: Multiply the weight of the mix by the percentage of butter fat desired in the ice cream and divide this by the number of pounds of cream used in the mix. To illustrate—suppose the mix consisted of 44 pounds of cream, 8 pounds of sugar, 4 ounces of filler, and four ounces of flavor, making a total weight of 52.5 pounds for the mix. In order to be on the safe side, at least a 12.5 per cent ice-cream should be made.

$52.5 \times .125 = 6.56$ = pounds of butter fat which must be contained in the mix, or pounds of fat in the original cream. By dividing 6.56 by 44 we get .149 or 14.9 per cent, the test of the cream which must be used in the mix to give a 12.5 per cent ice-cream.

A large number of the makers visited bought their cream by the gallon and were paying prices equivalent to 41 to 55 cents per pound butter fat. This cream was bought on the supposition that it tested 18 to 24 per cent. In a great many instances the test fell considerably below these marks. From these observations, it seems that buying cream by the gallon unnecessarily increases the cost of manufacture since sweet cream could be had very generally over the state at prices ranging from two to ten cents above market quotations for butter to 40 cents per pound butter fat. Where butter fat was bought, 40 cents was the highest price paid.

Several makers in making up their ice-cream used these supposed tests as a basis in standardizing their cream and were surprised that their ice-cream did not test as much as they had thought. From this, we are led to believe that ice-cream makers who have been buying cream by the gallon would do well to pay by the test.

By standardizing the cream for ice-cream making the guess work can be eliminated and by paying for cream by the test the cost of manufacture should be reduced.

COW TESTING.

The yearly test of the dairy cow has increased in popularity during the past year, and we are beginning to realize that it is through the individual that we must build the foundation for more and better dairy animals. It is pleasing to report that during the past month a number of cows in different parts of the state have finished records of 600 to 650 pounds of butter fat for the year. W. W. Marsh of Waterloo, Iowa, has again continued his offering of \$1,000.00 for yearly tests to be conducted by the Iowa State College under the supervision of the Iowa Cow Culture Club. This year there are 75 cows entered in the test.

BOOST FOR BETTER QUALITY.

Each year we become more impressed with the fact that health is largely governed by the quality of the food we eat. Both milk and cream are consumed in a raw state and no articles of our diet

are such harbingers of disease producing bacteria if exposed to them at a low temperature. It is very important that the producer reduce the temperature of the milk as soon as it is drawn or after separation, to a temperature of 50 degrees or lower, and keep it in a sanitary place. When it is passed on to the wholesaler or retailer it must be kept under the same conditions and the consumer must not disregard these same precautions up to the time the milk or cream is placed on the table.

It is a very deplorable fact that large quantities of the cream produced in this state have become greatly deteriorated in quality and in some cases almost decomposed, before it reaches the creamery. Such cream cannot be made into first grade butter and sooner or later the producer has to suffer for his negligence in the care of his cream. In view of this fact, the Dairy and Food Department have issued 50,000 copies of a bulletin called, "Care of Cream on the Farm" and also 15,000 copies of another bulletin called "Care of Milk and Cream in the Home," either of which may be obtained upon request.

"The Dairy and Food Commission of the State of Iowa will use every means to bring about the grading of cream and paying therefor according to quality or grade. The best interests of dairying in this State demand that this system be adopted, and the following grades are hereby established:

"*Special Grade Cream* is hand separator cream showing not more than .15 per cent acidity, free from bad odors, not over two days old in warm weather and not more than three days old in cold weather and testing 25 per cent or above.

"*First Grade Cream* is hand separator cream reasonably sweet, free from bad odors, not over three days old in warm weather and not over four days old in cold weather, and testing 25 per cent or above.

"*Second Grade Cream* is cream not reasonably sweet, over three days old in warm weather and over four days old in cold weather, is not of good flavor, hand skimmed and water separated, and testing less than 25 per cent butter fat."

WHY TESTS VARY.

Many things, both separately and collectively, tend to cause variations in milk and cream testing. Those who are not familiar

with the Babcock test look upon it with a certain degree of awe, see in it some mysterious contrivance to baffle the producer, while in reality it is a much simpler machine and more easily understood and operated than half the machines used on the modern farms today. Any person of ordinary intelligence can learn to operate the Babcock test in a comparatively short time. It is more a test of care and accuracy than it is any great understanding of chemical action. It is quite easy for a dishonest man to manipulate the test in different ways, and so much of this has been done in recent years that different states have passed very drastic laws to punish the offender as well as protect the farmer and the honest operator. Today the chances for dishonesty have been reduced to the minimum by the passage of the aforementioned laws and by the installation of many testers on the dairy farms.

The variations to be found in testing milk are due to several causes. The fat content of milk varies much more than any other solid found in it. When any appreciable difference occurs in the fat content of the milk of one or more cows, usually some definite reason can be supplied, but once in a while a variation will occur when there seems to be no valid explanation for it. The addition of a fresh cow's milk will often increase or perhaps reduce the average fat content of the whole herd. The different breeds of cows govern the fat content largely, there being quite a decided difference between the Holsteins and Jerseys in that respect. The period of lactation also affects the fat content. For the first couple of months after calving, the fat content of the milk is a little higher than the following two months, due to the fact that the cow is apt to take a quantity of the accumulated fat from her back and place it in the milk. In about two months the cow is usually in a normal condition again and for the following two or three months the fat content is apt to decrease. From this time on to the end of the lactation period the amount of milk will usually decrease and the fat content will slightly increase. The injection of a cow into the herd at any time during her lactation period will usually cause a slight change in the fat content of the milk of the whole herd. These are some of the reasons that form the bone of contention between the producer on the one hand and the city milkman and the creameryman on the other.

In cream testing we have about the same variations to contend with and then several more. It is next to impossible to run a

separator and keep the test the same at all times. The milk may be a little warmer one day than another; the rate of inflow may be a little greater one day than another, perhaps the machine may be turned a little faster or a little slower than usual or perhaps more or less water used to flush out the bowl; all have their effects upon the per cent of butter fat.

Generally speaking, the cream screw should be turned in a little in the spring as the cows are usually fresh at this season of the year and are eating large quantities of succulent feeds high in per cent of water, which has a tendency to reduce the fat content and if the cream screw is left the same as for winter use, the percentage of butter fat will fall off. We cannot feed fat into milk, but as a general rule the healthy condition of the fresh cow and the stimulus she receives from being put on green grass in the spring, causes her to give a larger quantity of milk, somewhat less in percentage of fat than she does in the fall toward the end of the lactation period.

It is far better to send a fairly heavy cream to the creamery, that is, a cream with a fat content of from 30 to 40 per cent. If a much heavier cream is separated there is a loss incurred in handling when pouring from one vessel to another. If a very thin cream is separated the farmer is sending a quantity of skim milk to the creamery that could be well utilized at home and for which he is receiving no remuneration. Also if this thin cream becomes very sour before a test can be made, the large per cent of the milk contained therein will curdle and prohibit the possibility of obtaining a representative sample and an accurate test.

CREAMERY BUTTER.

The amount of creamery butter manufactured within the state as reported by the 494 creameries for the year ending June 30, 1912, shows some decrease as compared with the year previous. According to the best reports obtainable, the creameries of Iowa manufactured 91,738,573 pounds of butter which is a decrease of 4,957,011 pounds. The decrease in the butter output does not furnish evidence that dairying is on the decline in this state but merely reveals that the milk and cream produced on the farms is being marketed through other channels. The creameries of

Iowa report having manufactured more than double the amount of ice cream that was manufactured the previous year, the total amount being given as 519,890 gallons. We are unable to secure accurate figures showing amount of butter fat annually used for ice cream purposes but a conservative estimate places this amount at 2,520,000 pounds. The steady growth of the ice cream trade has had a tendency to reduce the amount of butter manufactured and this reduction will continue to exist until changing industrial conditions cause the farmers to again resort to the production of milk and cream as the best means of converting their crops into a commodity that will bring them the most money. It is a notable fact that the production of butter has increased during those years when the price of farm crops has been lowest and to a certain extent the reverse has been true when crops were good and high prices ruled. The production of milk and cream necessarily demands close application and painstaking work on the part of the farmers and a period of prosperity makes it possible for many farmers to realize a good income without giving their attention to the production of milk. It has been said that the average man is as lazy as he dares to be and this statement comes very nearly being illustrated in connection with the production of butter fat by the average farmer. On many farms, dairying has been conducted as a side line and when high prices rule and the farmers generally are very prosperous, they feel in many cases that they are justified in discontinuing their milking operations on account of the exacting nature of the work. When a period of financial depression affects the general prosperity of the farmers, we believe large numbers of our farmers will again look to dairying as the most profitable branch of their farming operations. When this occurs we can reasonably expect a large increase in the production of creamery butter and the improved cattle and better methods which have been introduced during the past few years will make the production of butter fat more profitable than it has been at any time in the past and will lend encouragement to many to adopt the production of butter fat as their special branch of agriculture.

RENOVATED BUTTER.

Since the price of butter has been extremely high, considerable quantities of process butter, otherwise known as renovated butter,

have been sold within this state. We believe some rigid legislation should be enacted regulating the sale of this product. Numerous cases have been called to our attention where persons representing themselves to be farmers have procured this butter in large quantities and after repacking it in jars or other containers offered the same as country butter and many persons have purchased this product through such misrepresentations who could not be induced to use it were its true character known. We believe this product should be sold under some such labeling requirements as are provided for the sale of oleomargarine and severe penalties should be attached for the sale of renovated butter as country butter or in any other manner than that prescribed by the statute.

OLEOMARGARINE.

We have been unable to obtain accurate figures showing the sales of oleomargarine in the state of Iowa but we find that the number of dealers in this product has increased from 1,623 in 1910 to 2,182 for the year ending June 30, 1912. It is reasonable to suppose that the consumption of oleomargarine has increased at practically the same rate as have the sales of licenses to dealers. This department made but one successful prosecution during the past twelve months for violation of the oleomargarine law and this was for the sale of a product having yellow color in imitation of butter. The present oleomargarine law appears to be very satisfactory and dealers generally show a disposition to comply with the law.

CHEESE.

This department has received annual reports from seven cheese factories and the output of cheese is given as 346,456 pounds for the entire state. This shows an increase of 122,032 pounds over last year but this is only a small percentage of the amount consumed in this state. While the production of cheese in Iowa may never prove to be of great importance, we think the state should supply the home demand for cheese and we have reason to hope that this industry will receive enough attention from persons interested in the manufacture of cheese to enable them to at least meet the requirements of our own population.

GENERAL REVIEW OF THE BUTTER MARKET.

The market quotations for the best grades of table butter have shown a higher average during the past year than at any time since 1882, the average for the twelve months ending October 1, 1912, being 31.21 cents per pound for extra creamery. The average for the previous year was 26.09 cents but the comparison is hardly on an equal basis as the latter figure is based on the second grade quoted on the New York market while the first figure given is on this basis until May 13th when the specials class was abolished and the highest quotation was changed to extra grade. The difference between these two grades has been on the average about one-half cent per pound, hence the average for the year would be about 31 cents per pound based on the grade of extras. The high price realized for the best grades of creamery butter is not surprising when we take into account the limited supply of fine butter and the price quoted for the best grade is really not high by comparison with quotations of former years when we consider the percentage of increase in the prices of other food products and the like increase in value of feeds that are consumed by dairy animals. Herewith we give a table showing the average price of butter by months covering a period of twelve years.

SHOWING AVERAGE MONTHLY PRICE OF EXTRA CREAMERY BUTTER IN NEW YORK MARKET.

Month	Twelve months ending Oct. 1, 1901	Twelve months ending Oct. 1, 1902	Twelve months ending Oct. 1, 1903	Twelve months ending Oct. 1, 1904	Twelve months ending Oct. 1, 1905	Twelve months ending Oct. 1, 1906	Twelve months ending Oct. 1, 1907	Twelve months ending Oct. 1, 1908	Twelve months ending Oct. 1, 1909	Twelve months ending Oct. 1, 1910	Twelve months ending Oct. 1, 1911	Twelve months ending Oct. 1, 1912
October	\$.2140	\$.2200	\$.2362	\$.2100	\$.2095	\$.2184	\$.2611	\$.2015	\$.2673	\$.3064	\$.2996	\$.3044
November	.2487	.2412	.2650	.2317	.2481	.2350	.2762	.2725	.2957	.3095	.3117	.3391
December	.2540	.2510	.2920	.2423	.2688	.2480	.3164	.2887	.3131	.3490	.2900	.3670
January	.2262	.2425	.2762	.2270	.2910	.2650	.3080	.3069	.3152	.3344	.2639	.3810
February	.2250	.2862	.2600	.2517	.3218	.2700	.3254	.3233	.3009	.2964	.2611	.3114
March	.2212	.2810	.2860	.2452	.2807	.2700	.3061	.2840	.2953	.3263	.2301	.3004
April	.2099	.2825	.2725	.2284	.3008	.2188	.3069	.2855	.2708	.3113	.2111	.3235
May	.1900	.2275	.2200	.2012	.2371	.2017	.2501	.2369	.2658	.2843	.2187	.3043
June	.1925	.2195	.2160	.1803	.2049	.2022	.2300	.2329	.2581	.2792	.2409	.2731
July	.1960	.2131	.2012	.1767	.2056	.2062	.2481	.2343	.2623	.2831	.2510	.2713
August	.2050	.1990	.1940	.1793	.2111	.2257	.2488	.2285	.2719	.2938	.2631	.2963
September	.2110	.2170	.2075	.1947	.2068	.2462	.2751	.2388	.3013	.2989	.2655	.2976
Av. value per lb. per year	\$.2165	\$.2400	\$.2438	\$.2140	\$.2489	\$.2340	\$.2759	\$.2762	\$.2848	\$.3000	\$.2600	\$.3121

TABLE NO. II.

TABLE SHOWING NUMBER OF POUNDS OF MILK RECEIVED, NUMBER OF POUNDS OF CREAM RECEIVED, POUNDS OF BUTTER MADE AND POUNDS SOLD IN IOWA AND OUTSIDE THE STATE SO FAR AS REPORTED BY THE CREAMERIES.

Counties	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of butter manufactured	Pounds sold to patrons	Pounds sold in Iowa	Pounds sold outside the state
Adair.....	3	45,226	1,653,461	577,139	25,338	26,056	525,745
Adams.....	1	270,700	97,567	1,772	11,342	84,452	
Allamakee.....	7	7,047,519	1,759,983	34,823	119,992	1,639,168	
Appanoose.....	8		2,792,783	1,120,808	58,550	22,829	1,039,419
Audubon.....	8		1,470,494	606,073	6,097	106,347	494,229
Benton.....	13	28,848,602	4,617,374	2,713,176	108,828	664,453	1,879,895
Black Hawk.....	3	563,144	613,932	359,771	10,019	65,781	10,019
Boone.....	2	74,727,263	514,965	3,813,978	334,848	2,880,326	
Bremner.....	10	18,648,067	2,175,355	1,463,321	117,178	189,676	1,156,467
Buchanan.....	4		2,271,820	749,653	15,735	45,730	601,198
Buena Vista.....	14	19,067,680	4,722,322	1,518,800	108,406	69,794	1,349,560
Butler.....	6	238,200	1,588,783	973,426	19,563	11,737	493,136
Calhoun.....	6	192,745	1,714,929	690,627	20,622	69,886	539,139
Carroll.....	6		1,275,413	453,869	5,384	391,490	
Cedar.....	7		657,797	219,603	13,676	117,674	88,253
Cerro Gordo.....	2	1,110,265	4,050,923	1,342,357	26,804	217,304	1,098,198
Cherokee.....	11	21,575,814	669,306	166,290	913	65,973	19,374
Chickasaw.....	1		5,185,217	2,315,546	165,344	94,546	2,055,356
Clarke.....	6	964,257	2,308,856	863,517	56,130	38,787	758,600
Clay.....	16	12,912,023	6,739,274	2,586,893	94,392	87,738	2,404,833
Clinton.....	5		1,807,624	1,167,974	29,458	187,426	900,080
Crawford.....	1		367,003	150,268	7,268	143,000	
Dallas.....	2	7,833,007	1,227,364	398,264	148,246	139,140	113,878
Davis.....	1		12,656	4,286	65	4,221	
Decatur.....	1		1,039,308	421,631	11,812	409,819	
Delaware.....	16	21,548,537	31,568,878	2,960,056	187,064	229,073	2,573,259
Des Moines.....	1		26,000	8,500	215	5,475	3,000
Dickinson.....	4		1,189,522	406,130	18,754	29,257	367,109
Dubuque.....	18	6,130,145	9,520,633	3,323,473	78,791	448,971	2,705,711
Emmet.....	5	654,894	1,556,497	565,565	37,408	24,872	503,285
Fayette.....	21	45,049,853	5,675,440	3,870,714	268,328	257,454	3,344,937
Floyd.....	5	8,771,860	1,697,413	768,142	25,332	553,977	
Franklin.....	7	436,144	3,658,533	1,120,321	56,732	16,479	1,050,110
Fremont.....	1		88,291	39,776	95	3,455	39,226
Greene.....	1	61,308	281,295	112,485	2,688	17,995	91,802
Grundy.....	7	1,285,394	2,537,587	832,844	44,564	14,518	773,792
Guthrie.....	4	52,478	2,080,416	712,988	38,217	35,698	639,073
Hamilton.....	5	1,942,692	1,211,501	445,152	25,006	15,519	304,627
Hancock.....	8		4,421,530	1,390,777	45,237	39,658	1,324,482
Hardin.....	6	856,942	4,073,517	1,355,573	72,045	69,567	1,216,941
Harrison.....	1		543,104	178,276	450	35,000	142,836
Henry.....	5	2,479,340	4,472,041	1,500,051	34,530	23,463	1,532,959
Howard.....	6	161,292	3,025,682	981,448	31,376	14,292	995,780
Humboldt.....	1		230,101	90,267			90,267
Ia.....	8	313,566	2,022,017	659,764	50,276	38,007	571,481
Jackson.....	11	1,196,475	4,909,019	1,630,228	45,691	74,722	1,570,325
Jasper.....	2	965,897	4,426,367	167,568	13,646	25,240	128,073
Jefferson.....	1		327,000	109,000	250	50,760	49,000

TABLE NO. II.—CONTINUED

Counties	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of butter manufactured	Pounds sold to patrons	Pounds sold in Iowa	Pounds sold outside the state
Johnson.....	8	2,002,726	5,769,976	1,777,536	84,384	70,108	1,622,954
Jones.....	18		810,000	210,000		60,000	150,000
Keokuk.....	2	2,955,966	5,330,949	1,877,732	144,600	73,375	1,669,757
Kossuth.....	1		2,330,089	743,363		175,000	568,363
Lee.....	9	3,049,274	6,093,808	2,165,920	61,222	531,411	1,513,256
Linn.....	1		74,250	28,357		5,000	14,757
Lucas.....	3		2,123,804	732,416	1,320	13,000	717,487
Lyon.....	1						
Madison.....	1		980,548	263,510			263,510
Mahaska.....	1		126,877	321,644	113,477	18,057	95,430
Marion.....	1		2,274,151	684,959	21,630	24,611	451,640
Marshall.....	1		199,655	72,506	479	25,657	46,490
Mills.....	7	1,081,100	4,161,618	1,259,016	105,119	309,340	844,557
Mitchell.....	1		139,108	65,394	612	416	64,396
Monona.....	1		328,000	100,400	499	69,000	29,000
Monroe.....	2	2,020,830	1,300,000	300,000		75,000	225,000
Montgomery.....	5	81,025	2,135,097	756,317	27,284	71,640	637,293
Muscatine.....	4		1,481,129	520,152	13,185	17,650	499,317
O'Brien.....	1		1,446,000	482,302		74,556	407,747
Oceola.....	13	6,439,797	4,182,959	1,477,999	139,504	72,132	1,235,323
Page.....	4	167,505	1,090,538	369,326	8,643	82,448	278,245
Palo Alto.....	4		496,357	347,317	15,308	8,185	323,824
Pemontas.....	4		19,049,817	3,745,692		1,139,240	2,616,852
Polk.....	2	385,000	2,020,539	688,113		100,000	868,113
Pottawattamie.....	7	94,723	1,237,867	385,276	6,722	207,308	271,286
Poweshiek.....							
Ringgold.....	5	41,085	1,073,225	688,157	18,861	22,185	547,121
Sac.....	2	25,000	1,228,716	333,031	400	24,067	307,564
Scott.....	6		1,104,607	424,474	17,132	21,697	386,125
Shelby.....	8	216,913	4,673,738	1,578,133	23,661	38,313	1,515,560
Sioux.....	8	2,235,855	2,644,663	832,703	90,067	94,363	642,323
Story.....	3		1,133,140	100,685	11,559		96,126
Tama.....	1		2,487,240	829,080	13,210	32,400	783,470
Taylor.....	2		531,483	553,066	1,298	106,844	444,956
Union.....	3						
Van Buren.....	1		1,862,121	690,707		119,097	501,050
Wapello.....	1		2,061,142	721,088	5,834	40,319	675,415
Warren.....	3		1,508,370	625,981	5,266	101,210	417,475
Washington.....	2		3,569,062	1,609,097	116,140	75,844	1,417,053
Wayne.....	11		7,120,640	2,042,644	23,217	48,125	1,971,302
Webster.....	4	176,800	25,148,339	9,774,239	8,550	718,451	9,062,228
Winnebago.....	9	498,201	1,336,615	136,654		24,286	1,166,675
Winnebush.....	6		6,329,299	1,131,092	21,494	48,069	1,060,939
Woodbury.....							
Wright.....							
Total.....	504	307,714,192	299,076,975	91,738,753	8,643,171	9,051,658	79,043,844

TABLE NO. III.

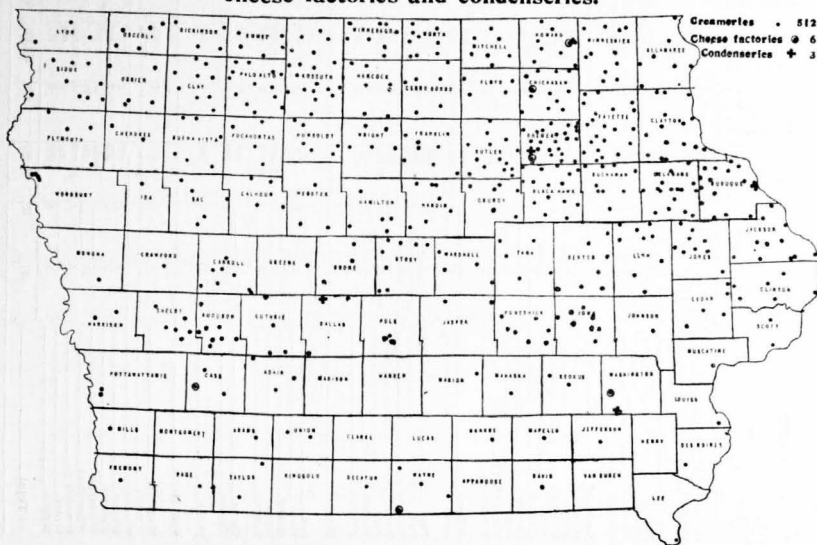
TABLE SHOWING NUMBER OF HAND SEPARATORS, NUMBER OF PATRONS
AND NUMBER OF COWS.

Counties	No. of creameries reporting hand separators	Receive cream by rail	Hand separators reported	No. of creameries reporting patrons and cows	No. of patrons reported	No. of cows reported
Adair.....	3		771	3	728	6,074
Adams.....	1		203	1	214	1,498
Allamakee.....	8		1,359	8	1,723	13,479
Appanoose.....						
Audubon.....	8		1,199	8	1,204	9,232
Benton.....	7		809	7	852	6,042
Black Hawk.....	14	3	2,605	14	4,384	32,917
Boone.....	3		314	4	306	2,398
Bremer.....	6		388	24	912	18,002
Buchanan.....	10	1	996	10	1,431	8,922
Buena Vista.....	4		1,207	4	1,212	8,409
Butler.....	14	1	1,653	13	1,806	12,036
Calhoun.....	5	3	1,545	5	1,545	11,040
Carroll.....	6		943	6	943	5,604
Cass.....	2	1	583	2	583	3,761
Cedar.....	5		457	5	490	3,054
Cerro Gordo.....	6	1	1,323	6	1,474	9,808
Cherokee.....	2		410	2	420	2,940
Chickasaw.....	9		1,112	11	1,974	18,494
Clarke.....						
Clay.....	9		1,013	9	1,087	7,677
Clayton.....	14	1	1,861	15	2,430	19,642
Clinton.....	5	2	930	5	980	7,110
Crawford.....	1	1	214	1	214	1,284
Dallas.....	9	1	570	2	590	3,600
Davis.....	1	1	156	1	200	1,200
Decatur.....	1	1	562	1	562	3,372
Delaware.....	13	1	1,804	15	3,002	21,924
Des Moines.....	1		50	1	50	300
Dickinson.....	4		529	4	533	3,504
Dubuque.....	17	3	3,503	18	6,998	56,016
Emmet.....	5		404	5	447	3,745
Fayette.....	15		1,774	21	4,837	35,872
Floyd.....	5		785	5	1,007	6,750
Franklin.....	6	1	848	7	1,091	8,071
Fremont.....	1		382	1	100	425
Greene.....	1		214	1	214	1,498
Grundy.....	6	1	680	6	710	5,636
Guthrie.....	4		798	4	915	5,910
Hamilton.....	4		1,355	4	700	3,924
Hancock.....	8		1,209	8	1,215	10,176
Hardin.....	6	1	2,484	6	2,518	13,073
Harrison.....	1	1	270	1	300	2,500
Henry.....						
Howard.....	9		1,480	9	1,563	12,750
Humboldt.....	6	2	1,541	6	1,541	11,162
Ida.....	1	1	100	1	100	700
Iowa.....	8		1,109	8	749	4,529
Jackson.....	11	1	1,749	11	1,885	17,390
Jasper.....	2		250	2	308	1,750
Jefferson.....	1	1	250	1	275	2,100
Johnson.....						
Jones.....	8	2	1,533	8	1,586	13,310

TABLE No. III.—CONTINUED

County	No. of creameries reporting hand separators	Receive cream by rail	Hand separators reported	No. of creameries reporting patrons and cows	No. of patrons reported	No. of cows reported
Keokuk.....	2	1	150	2	250	1,750
Kossuth.....	18		1,603	18	1,684	14,484
Lee.....	1	1	825	1	825	5,775
Linn.....	9	1	2,138	9	2,708	18,787
Louisa.....	1		54	1	66	462
Lucas.....						
Lyon.....	3	1	790	3	840	5,920
Madison.....						
Mahaska.....	1	1	326	1	326	2,382
Marion.....	1		295	1	394	1,425
Marshall.....	4	1	738	4	934	6,517
Mills.....	1		125	1	125	885
Mitchell.....	7		1,022	7	1,466	9,836
Monona.....	1		96	1	96	700
Monroe.....	1		88	1	88	704
Montgomery.....						
Muscataine.....	1	1	450	2	500	4,000
O'Brien.....	5		922	5	936	6,718
Osceola.....	5		595	5	595	4,780
Page.....	1	1	643	1	643	4,501
Palo Alto.....	13		4,108	13	1,371	11,183
Plymouth.....	4		611	4	625	4,407
Pocahontas.....	4		508	4	511	2,754
Polk.....	3	3	8,788	3	9,389	66,723
Pottawattamie.....	1	2	34	1	36	252
Poweshiek.....	7	1	671	7	683	4,276
Ringgold.....						
Sac.....	5		864	5	918	5,376
Scott.....	2	2	477	2	477	3,400
Shelby.....	6		750	6	751	4,312
Sioux.....	8		1,936	8	1,960	12,946
Story.....	8		1,023	8	1,043	7,768
Tama.....	3		219	2	211	1,180
Taylor.....	1	1	200	1	200	1,400
Union.....	2	1	759	2	759	4,713
Van Buren.....						
Wapello.....	1	1	689	1	689	4,723
Warren.....						
Washington.....						
Wayne.....	3	1	737	3	1,120	7,004
Webster.....	3	1	658	3	681	4,748
Winnebago.....	7		1,011	7	1,307	12,234
Winneshiek.....	11		2,030	11	2,324	18,965
Woodbury.....	4	4	12,940	4	12,940	90,370
Worth.....	9		1,061	9	1,066	8,876
Wright.....	5	1	825	5	625	6,750
Total.....	461	58	97,041	492	113,215	884,296

Map of Iowa showing location of creameries, cheese factories and condenseries.



CREAMERY LIST

* Central Churning Plant. c—Co-operative. s—Stock. f—Individual.

Number	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—						
1	Adair Co-op. Cry. Co.	Adair	M. L. McManus	Adair	J. T. Ryan	Adair
2	Arbor Hill Cry. Co.	Stuart (9 mi. s.)	Nels Hansen	Stuart	Nels Hansen	Stuart
3	Greenfield Cry. Co.	Greenfield	Jas. P. Laude	Greenfield	J. D. Main	Greenfield
Adams County—						
4	Fars. Mut. Co-op. Cry. Ass'n.	Prescott	O. M. Green	Prescott	A. H. Ady	Prescott
Allamakee County—						
5	New Albin Co-op. Cry.	New Albin	R. G. May	New Albin	E. Rice	New Albin
6	Fars. Waukon Co-op. Cry. Co.	Waukon	A. H. Hansmeier	Waukon	F. A. Fiehl	Waukon
7	Arctic Spring Cry. Ass'n.	Quandahl	O. C. Flatberg	Spring Grove Minn. R. 3	I. O. Langille	Spring Grove Minn. R. 3
8	Ludlow Co-op. Cry. Co.	Waukon	Wm. F. Shafer	Postville	Wm. P. Muth	Waukon
9	Farmers Co-op. Cry. Co.	Waterville	J. T. Bjerke	Waterville	F. W. Hessel	Waterville
10	Postville Fars. Coop. Cry. Co.	Postville	J. W. Campbell	Postville	E. L. Forrester	Postville
11	Calhoun Creamery Co.	Lansing (7 mi. w.)	C. J. Riser	Church	K. V. Ferris	Church
	Harpers Ferry Cry.	Harpers Ferry				
Audubon County—						
12	Liberty Cry. Co.	Manning	Jas. Witttrup	Manning	Chris Lund	Manning
13	Danish Sep. Co.	Kimballton	Peter Lykke	Kimballton	Peter Thueson	Kimballton
14	Blue Grass Cry. Co.	Hamlin	Jno. Clayton	Exira, R. 5	Geo. Guile	Hamlin
15	Exira Cry. Co.	Exira	F. W. Klever	Exira	Chris. O. Nielsen	Exira
16	West Hamlin Sep. Co.	Exira (6 mi. e.)	Fred Gjerloff	Exira, R. 2	Johannes Johansen	Exira, R. 2
17	Audubon Twp. Cry. Co.	Exira	L. P. Neisen	Exira, R. 3	L. P. Neisen	Exira, R. 3
18	Oakfield Twp. Cry. Co.	Brayton (3 mi. w.)	Harry Nymand	Brayton	M. Anderson	Brayton
19	Sharon Sep. Cry. Co.	Audubon (6 mi. sw.)	Otto Larsen	Audubon, R. 5	Peter Windfeldt	Audubon, R. 4
Benton—County						
20	Blairstown Cry. Co.	Blairstown	Chas. Hanbold	Blairstown	Chas. Hanbold	Blairstown

CREAMERY LIST-CONTINUED

36

Number	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
Benton County--Continued						
21	Norway Cry. Co.i	Norway	H. G. Webster	Norway	H. G. Webster	Norway
22	Farmers Cry. Co.s	Belle Plaine	C. A. Sweet	Belle Plaine	R. D. Ewing	Belle Plaine
23	Shellsburg Cry.i	Shellsburg	J. A. Moeller	Shellsburg	Bob A. Moeller	Shellsburg
24	Urbana Cry.i	Urbana	Jas. Romine	Urbana	Jas. Romine	Urbana
25	Model Cry.i	Newhall	Gardemann & Jungelaus	Newhall	W. C. Dubbs	Newhall
26	Vinton Cry. Co.i	Vinton	E. S. Pyburn	Vinton	C. F. Daniels	Vinton
Black Hawk County--						
27	Benson Dairy Co.c	Benson (1½ mi. s.)	Geo. Mathes	Cedar Falls, R. 2	John Lorenzen	Cedar Falls R. 2
28	Cedar Falls Cry. Co.i	Cedar Falls	Riedel & Jensen	Cedar Falls	U. A. Harvey	Cedar Falls
29	Farmers Dairy Assn.c	Waterloo (5 mi. s.)	S. Sweitzer	Waterloo	R. W. Chadwick	Waterloo
30	Gilbertville Dairy Assn.c	Gilbertville	J. B. Kascht	Waterloo	W. F. Schurke	Gilbertville
31	Co-op. Cry. Co. of Jubileec	Jesup (7 mi. sw.)	F. J. Orth	Jesup	A. J. Widdel	Jesup
32	Mt. Vernon Cry. Co.c	Boies	Geo. H. Moeller	Denver	I. R. Moon	Cedar Falls
33	Hudson Co-op. Cry. Assn.c	Hudson	Henry Lafrenz	Hudson	Wm. McFarland	Hudson
34	Union Cry. Co.c	Finchford	G. A. Evenson	Winslow	P. W. Peterson	Janesville
35	East Lester Cry.c	Fairbank (2½ mi. s.)	L. B. Duffy	Fairbank	W. P. Hughs	Fairbank
36	Fars. Cry. Co.c	Dunkerton	G. S. Kleckner	Dunkerton	O. G. Alexander	Dunkerton
37	Great Western Cry. Co.i	Dewar	E. T. Sadler	Waterloo	L. S. Edwards	Dewar
38	Crain Creek Cry.i	Denver (6 mi. se.)	Wm. Meler	Denver, R. 1	Jno. Nottger	Dunkerton, R. 2
39	La Porte Co-op. Cry. Co.c	La Porte City	C. B. Gingrich	La Porte City	Chas. Zell	La Porte City
40	Eagle Twp. Cry. Assn.s	Waterloo (11 mi. s.)	P. Damgaard	Waterloo, R. 1	P. Damgaard	Waterloo, R. 1
41	*S. P. Wadley Co.s	Waterloo	S. P. Wadley Co.	Dubuque	Wm. Gossman	Waterloo
Boone County--						
42	Boone Cry. Co.i	Boone	R. J. Saverald	Boone	A. A. Anderson	Boone
43	Dodge Fars. Mut. Co-op. Cry. Co.c	Boone	L. J. Bremsen	Boone, R. 3	L. J. Bremsen	Boone, R. 3
44	Rosendale Co-op. Cry. Co.c	Story City (6 mi. w.)	L. O. Peterson	Story City	L. O. Peterson	Story City
45	The Berkley Cry. Co.i	Berkley	C. F. Gorley	Berkley		
Bremer County--						
46	Maxfield Cry. Co.c	Readlyn (2½ mi. nw.)	J. Strotzman	Readlyn	F. H. Wehling	Readlyn
47	Fremont Cry. Co.i	Tripoli	E. O. Fink	Tripoli	H. J. Hankner	Tripoli

48	Ladage & Mellinger Cry.i	Plainfield	H. C. Ladage	Plainfield	H. C. Ladage	Plainfield
49	Dayton Cry. Co.c	Sumner (4 mi. s.)	J. H. Kasemeier	Sumner	Roy H. Scoles	Sumner
50	Mohawk Conds. Milk Co.s	Waverly	Frank G. Gebbie	Rochester, N. Y. 1228 Granite		
51	Janesville Cry. Assn.c	Janesville	H. W. Stine	Janesville	B. O. Squires	Janesville
52	Readlyn Co-op. Cry. Co.s	Readlyn	H. A. Griese	Readlyn	H. A. Griese	Readlyn
53	Spring Fountain Cry. Co.c	Sumner	Wm. Zell	Sumner	F. W. Bremer	Sumner
54	Grove Hill Cry. Co.c	Fairbank (4½ mi. sw.)	Frank Kane	Fairbank	F. D. Daniels	Fairbank
55	Seigel Cry. Co.c	Tripoli	H. F. Moeller	Waverly, R. 2	F. H. Harms	Waverly, R. 2
56	Washington Cry. Co.c	Waverly (3 mi. e.)	E. W. Brandt	Waverly, R. 5	D. Bottermann	Waverly, R. 5
57	LaFayette Cry. Co.c	Waverly (4½ mi. n.)	L. H. Cutler	Waverly, R. 6	J. G. Nichols	Waverly, R. 1
58	Artesian Cry. Co.c	Denver (4 mi. n.)	O. C. Tractow	Waverly		
59	Tripoli Cry. Co.c	Tripoli	J. C. Koch	Tripoli	Wm. Ambrose	Tripoli
60	Potters Siding Cry. Co.c	Tripoli	Wm. Kallenbach	Tripoli, R. 2	J. Ambrose	Tripoli
61	Sumner Cry. Co.c	Sumner	A. S. Munger	Sumner	E. B. Olds	Sumner
62	Excelsior Cry. Co.c	Sumner	H. E. Wuttke	Sumner, R. 4	Robt. Wagner	Sumner, R. 4
63	Climax Cry. Co.c	Sumner (6 mi. sw.)	H. W. Schnadt	Sumner, R. 6	L. L. Zornik	Sumner, R. 6
64	Klinger Cry. Co.i	Readlyn	C. H. Rohrsen	Dunkerton, R. 2	C. H. Rohrsen	Dunkerton, R. 2
65	Frederika Cry. Co.c	Frederika	J. H. McDonald	Frederika	Wm. Dilley	Frederika
66	First Maxfield Cry. Co.c	Denver	Henry Mathias	Readlyn	J. W. Wedemeyer	Denver
67	Little Valley Cry. Co.c	Sumner	Chas. Krueger	Sumner, R. 7	F. Wills	Sumner, R. 7
68	Western Douglas Cry. Co.s	Bremer (5 mi. n.)	Carl Oberhen	Plainfield, R. 1	Robt. Kerr	Waverly, R. 1
69	Bremer Cry. Co.c	Bremer	G. W. Christophel	Waverly, R. 6	Henry Piegors	Waverly, R. 2

Buchanan County--						
70	*Wapsie Valley Cry. Co.s	Independence	C. V. Rosenberger	Independence	L. J. Hall	Independence
71	Otterville Creamerys	Otterville	W. Anderson	Independence	R. E. Bantz	Otterville
72	Stanley Cry. Co.i	Stanley	W. H. Day	Stanley	Geo. Coyle	Oelwein
73	Lamont Fars. Cry. Assn.c	Lamont	O. C. Gladwin	Lamont	E. A. Cole	Lamont
74	L. Schnittler Cry.i	Rowley	J. H. Reed	Rowley	J. H. Reed	Rowley
75	Jesup Cry. Co.c	Jesup	C. L. Bright	Jesup	E. A. Howey	Jesup
76	Hazleton Fars. Co-op. Cry.c	Hazleton	J. W. Basham	Hazleton	Matt McDowall	Hazleton
77	Fairbank Fars. Cry. Co.c	Fairbank	A. J. Langley	Fairbank	O. E. Brant	Fairbank
78	Buffalo Valley Cry. Co.i	Winthrop	Guthrie Simmons	Winthrop	Andrew Peterson	Winthrop
79	*Rush Park Dairy Farms	Independence	Leo Crahan	Independence	Geo. Landis	Independence

Buena Vista County--						
80	Farmers Co-op. Cry. Co.c	Alta	C. P. Corneilussen	Alta	H. S. Allen	Alta
81	Linn Grove Cry. Co.i	Linn Grove	Peterson & Jensen	Linn Grove	Peter Peterson	Linn Grove
82	Fars. Cry. & Produce Co.c	Newell	E. P. Kruse	Newell	N. C. Olsen	Newell
83	Buena Vista Cry. Co.s	Storm Lake	O. L. Ford	Storm Lake	W. J. McPheeters	Storm Lake
84	Sioux Rapids Cry. Co.i	Sioux Rapids	F. R. Ballantyne	Sioux Rapids	Fay Williams	Sioux Rapids
	Albert City Cry.c	Albert City	J. E. Lauridsen	Albert City	J. E. Lauridsen	Albert City

Butler County--						
85	Monroe Central Cry. Co.s	Eleanor (1 mi. n.)	Chas. Rohde	Aplington	Chas. Rohde	Aplington
86	Clarksville Cry. Co.i	Clarksville	M. J. Johnson	Clarksville	M. A. Jones	Clarksville

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CREAMERY LIST—CONTINUED

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Number	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
Butler County—Continued						
87	New Hartford Fars. Mut. Co-op. Cry. Co.	New Hartford	R. L. Farnsworth	New Hartford	Peter Larson	New Hartford
88	The Albion Co-op. Cry. Co.	Parkersburg (8 mi. e.)	E. S. Philo	New Hartford	W. F. Graham	Parkersburg, R. 1
89	Northern West Point Cry.	Greene (7 mi. s. w.)	T. J. O'Brien	Greene	Theo. Jensen	Greene
90	Courbat Cry. Co.	Coster	O. F. Courbat	Shell Rock	O. F. Courbat	Shell Rock
91	Shell Rock Cry. Co.	Shell Rock	E. E. Wilcox	Shell Rock	M. C. Bussey	Shell Rock
92	Beaver Cry. Co.	New Hartford (3 mi. s.)	J. J. Bergman	New Hartford	W. H. Chapman	New Hartford
93	Kesley Cry. Co.	Kesley	H. Patterson	Kesley	H. Patterson	Kesley
94	Fars. Co-op. Cry. Co.	Allison	Frank Fishel	Allison	R. D. Sweet	Allison
95	Fars. Co-op. Cry. Co.	Greene	A. S. Shook	Greene	J. Jacobson	Greene
96	White Rose Cry. Co.	Austinville	S. L. Patterson	Austinville	J. E. DuShane	Austinville
97	E. C. Capper & Co.	Dumont	E. C. Capper	Dumont	C. H. Capper	Dumont
98	Nortons Corners Cry. Co.	Shell Rock (7 mi. s. w.)	E. T. Sadler	Waterloo	S. J. VanderVeen	Shell Rock, RFD
Calhoun County—						
99	*Somers Cry. Co.	Somers	H. H. Hopkins	Rockford, Ill.	W. H. Graham	Somers
100	Pomeroy Cry. Co.	Pomeroy	H. A. Albrecht	Pomeroy, R. 1	Geo. F. Allard	Pomeroy
101	Moon Bros. Cry. Co.	Manson	Harry A. Moon	Manson	Chas. G. Moon	Manson
102	*Western Packing Co.	Rockwell City	E. Johnson	Spirit Lake	Lee Fredricks	Rockwell City
Carroll County—						
103	Fars. Co-op. Cry. Co.	Coon Rapids	Carl V. Ford	Coon Rapids	Fred S. Davis	Coon Rapids
104	Willey Cry. Co.	Willey	H. Lauridsen	Carroll, R. 5	H. Lauridsen	Carroll, R. 5
105	Halbur Cry. Co.	Halbur	M. J. Wagner	Halbur	M. J. Wagner	Halbur
106	Templeton Cry. Co.	Templeton	Henry Langel	Templeton	Frank Doniger	Templeton
107	Rose Valley Cry. Co.	Roselle	C. Kohorst	Carroll, R. 4	Clemens Kohorst	Carroll, R. 4
108	Coon Rapids Co-op. Cry. Co.	Coon Rapids	Mabel Miller	Coon Rapids	Julius Sahr	Coon Rapids
109	Selzer Pure Food & Products Co.	Carroll	John Selzer	Carroll	E. J. Riley	Carroll
110	Manning Cry. Co.	Manning	H. C. Darger	Manning	E. A. Hayes	Manning
Cass County—						
111	*Atlantic Produce Co.	Atlantic	W. F. Priebe Co.	Atlantic	R. T. Grierson	Atlantic
112	Fars. Cry. Co.	Cumberland	E. Euker	Wiota	Albert Heyn	Cumberland
Cedar County—						
113	Golden Star Cry. Co.	Bennett	W. H. Kroeger	Bennett	W. H. Kroeger	Bennett
114	Hopewell Cry. Co.	West Branch	J. T. Butler	West Branch	L. M. Hall	West Branch
115	Tipton Co-op. Cry. Co.	Tipton	C. F. Simmermaker	Tipton	R. L. Rector	Tipton
116	Lowden Fars. Mut. Co-op. Cry. Co.	Lowden	A. Freund	Lowden	W. L. Sloan	Lowden
117	Massillon Co-op. Cry. Co.	Massillon	P. H. Schneider	Massillon	Peter White	Massillon
Cerro Gordo County—						
118	Sunny Side Cry. Co.	Thornton	J. E. Mortensen	Thornton	L. A. Solreik	Thornton
119	Ventura Fars. Cry. Co.	Ventura	J. E. Sawyer	Clear Lake	Robt. Bless	Ventura
120	Rockwell Co-op. Cry. Co.	Rockwell	F. C. Siegfried	Rockwell	F. D. Ford	Rockwell
121	Plymouth Co-op. Cry. Co.	Plymouth	J. L. Stevens	Plymouth	C. N. Hart	Plymouth
122	Farmers Mut. Co-op. Cry. Co.	Clear Lake	H. E. Palmeter	Clear Lake	Guy Thomas	Clear Lake
123	*E. B. Higley Co.	Mason City	C. O'Keeffe	Mason City	Geo. C. Johnson	Mason City
Cherokee County—						
124	Cherokee Cry. & Bottling Works.	Cherokee	Jno. H. Goeb	Cherokee	Carl G. Joeb	Cherokee
125	White Rose Cry. Co.	Marcus	Maud Naffziger	Sioux City	Victor Naffziger	Marcus
Chickasaw County—						
126	Saude Co-op. Cry. Assn.	Saude	C. A. Steensland	Saude	G. F. Langquist	Saude
127	Jerico Cry. Assn.	Jerico	Mike Kearney	Lawler, R. 1	John Finegan	New Hampton
128	Fars. Co-op. Cry. Assn.	Nashua	S. W. Blinn	Nashua	M. E. McMurray	Nashua
129	The New Hampton Fars. Cry. Assn.	New Hampton	J. W. Krieger	New Hampton	D. W. Mohler	New Hampton
130	Lawler Cry. Assn.	Lawler	P. J. Cooney	New Hampton	A. W. Snyder	Lawler
131	Ionia Fars. Cry. Assn.	Ionia	H. B. Young	Ionia	F. W. Stickman	Ionia
132	Fredericksburg Butter Factory	Fredericksburg	C. L. Whitcomb	Fredericksburg		
133	Alta Vista Fars. Co-op. Cry.	Alta Vista	Albert Tietjen	Alta Vista		
134	Boyd Fars. Co-op. Cry. Assn.	Boyd	John Heit	New Hampton, R. 2	H. B. Fortney	Alta Vista
135	Williamstown Cry. Assn.	New Hampton (6½ mi. s.)	C. M. Burmaster	Fredericksburg, R. 4	M. J. Donovan	New Hampton, R. 5
136	Deerfield Creamery Co.	Bassett	E. T. Sadler	Waterloo	Geo. Assink	Bassett, RFD
Clay County—						
137	Fars. Cry. Assn.	Greenville	A. D. Claussen	Greenville	E. P. Conway	Greenville
138	Gillett Grove Cry. Co.	Gillett Grove	E. E. Higgins	Gillett Grove	J. N. Peterson	Gillett Grove
139	Spencer Dairy Produce Co.	Spencer	J. F. Frank	Spencer	Ernest Selhaver	Spencer
140	Everly Cry. Co.	Everly	P. W. Johnson	Everly	P. W. Johnson	Everly
141	Fars. Cry. & Produce Co.	Webb	B. A. Reid	Webb	J. A. Reid	Webb
142	Langdon Mut. Co-op. Cry. Assn.	Langdon	N. C. Nielsen	Langdon	N. C. Nielsen	Langdon
143	Royal Creamery Co.	Royal	C. H. Matravars	Royal	J. F. Oddy	Royal
144	Fostoria Cry. Co.	Fostoria	Olaf Hofstad	Fostoria	Edgar Chadwick	Fostoria
145	Fars. Co-op. Cry. Co.	Dickens	Jno. J. Lawler	Dickens	W. A. Thayer	Dickens

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CREAMERY LIST—CONTINUED

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Number	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
Clayton County—						
146	Garber Fars. Co-op. Cry. Co. c	Garber	R. T. Smith	Garber	C. H. Pinch	Garber
147	Union Fars. Co-op. Cry. c	Monona	Robt. M. Fonda	Monona	Watson Shick	Monona
148	*North Iowa Butter & Egg Co. s	McGregor	T. H. Allan	McGregor	J. S. Watson	McGregor
149	Crown Brand Cry. Co. c	Elkader	J. T. Leonard	Elkader	J. T. Leonard	Elkader
150	Edgewood Fars. Co-op. Cry. Co. c	Edgewood	W. A. Robinson	Edgewood	Harley Evert	Edgewood
151	Fars. Cry. Co. c	Osterdock	H. A. Mallory	Osterdock	C. R. Welch	Osterdock
152	Millville Cry. Co. c	Millville	Fred Mueller	Guttenberg, R. 2	Carl Loomis	Turkey River
153	Volga City Fars. Cry. Assn. c	Volga	E. Probert	Volga	A. Matson	Volga
154	Strawberry Point Fars. Cry. c	Strawberry Point	C. D. Wolcott	Strawberry Pt.	J. J. Brunner	Strawberry Pt.
155	Farmersburg & St. Olaf Co-op. Cry. Co. c	St. Olaf	Wm. L. Fuhrman	St. Olaf	Jack Frisbie	St. Olaf
156	Littleport Fars. Co-op. Cry. c	Littleport	Geo. Rengnitz	Elkport, R. 1	Earl Batchelder	Littleport
157	Luana Fars. Co-op. Cry. c	Luana	H. R. Roderick	Luana	S. Peterson	Luana
158	Garnaville Fars. Cry. Co. c	Garnaville	E. C. Wirkler	Garnaville	J. F. Fisher	Garnaville
159	Fidelity Cry. Co. c	Edgewood	H. F. Beyer	Edgewood	Royal Firman	Edgewood
160	Clayton Cry. Co. c	Clayton	A. E. Nagel	Clayton	Peter S. Beckett	Clayton
Clinton County—						
161	Clinton Co. Cry. Co. c	DeWitt	A. E. Banta	DeWitt	A. E. Banta	DeWitt
162	*Iowa Cold Storage Co. s	Clinton	H. R. Gray	Clinton	Walter Freed	644 10th Ave., Clinton
163	Farmers Co-op. Cry. Co. c	Toronto	Edw. Hart, Jr.	Toronto	Chris. Jessen	Toronto
164	Fars. Co-op. Cry. Co. c	Wheatland	Edw. J. Riedesel	Wheatland	N. Overgaard	Wheatland
165	Springbrook Cry. Co. c	Welton	B. W. Newman	Elgin, Ill.	E. A. Kinsler	Welton
166	Charlotte Cry. Co. c	Charlotte	A. E. Robertson	Charlotte	A. E. Robertson	Charlotte
Crawford County—						
167	*Nicholson Produce Co. s	Denison	Alfred Wright	Denison	H. E. Hansen	Denison
Dallas County—						
168	Fars. Co-op. Cry. Assn. c	Dexter	Jas. L. Keachie	Dexter	Jas. L. Keachie	Dexter
169	*Woodward Cry. Co. c	Woodward	H. P. Colonkey & Son	Woodward	Wm. Ackerman	Woodward
170	Condensed Milk Factory	Perry	C. W. Mann	Indianapolis, Ind

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Davis County—						
171	Bloomfield Cry. Co. c	Bloomfield	Newton Richardson	Bloomfield	W. B. Beckley	Bloomfield
Decatur County—						
172	*Clarinda Poultry Butter & Egg Co. s	Leon	G. V. Dryden	Clarinda	C. B. Peterson	Leon
Delaware County—						
173	Manchester Co-op. Cry. Co. c	Manchester	Jas. Bishop	Manchester	W. E. Mittlestadt	Manchester
174	Hammels Cry. Co. c	Earlville	W. F. Hammel	Earlville	W. Hammel	Earlville
175	Hazel Green Cry. Co. c	Ryan (6 mi. e.)	Daniel King	Delhi	Alex. Graham	Manchester
176	Fars. Co-op. Cry. Co. c	Thorpe	M. E. Blair	Manchester	G. Stuessi	Thorpe
177	Silver Spring Cry. Co. c	Delhi	E. B. Porter	Delhi	H. P. Bancroft	Delhi
178	Masonville Co-op. Cry. Co. c	Masonville	F. S. Harris	Masonville	Milton Colton	Masonville
179	*Dairy City Cry. Co. c	Manchester	L. Andrews	Manchester	J. A. Porter	Manchester
180	Earlville Cry. Co. c	Earlville	J. M. Dunn	Earlville	J. M. Dunn	Earlville
181	Delaware Co-op. Cry. Co. c	Delaware	A. D. Long	Manchester	J. T. Dawson	Delaware
182	Bear Grove Cry. Co. c	Dyersville	J. T. Goedken	Dyersville, R. 20	Elmer J. Reed	Dyersville, R. 20
183	Hopkinton Co-op. Cry. Co. c	Hopkinton	I. T. Wilson	Hopkinton	Hugh Bullis	Hopkinton
184	Colesburg Cry. Co. c	Colesburg	Robt. A. Gull	Colesburg	A. L. Landis	Colesburg
185	Greeley Fars. Co-op. Cry. c	Greeley	J. O. Mathews	Greeley	W. R. Crabb	Greeley
186	Sand Spring Co-op. Cry. Co. c	Sand Spring	J. H. Hankens	Sand Spring	J. W. Appleby	Sand Spring
187	Ryan Cry. Co. c	Ryan	Geo. A. Emery	Ryan	Geo. A. Emery	Ryan
188	Spring Branch Co-op. Cry. c	Manchester	W. Y. Davis	Manchester	R. J. Erb	Manchester
Des Moines County—						
189	Danville Co-op. Cry. Co. c	Danville	W. M. Irwin	Danville	A. W. Pyle	Danville
Dickinson County—						
190	Lake Park Co-op. Cry. Co. c	Lake Park	J. G. Chrysler	Lake Park	E. E. Starr	Lake Park
191	Milford Fars. Butter & Cheese Assn. s	Milford	Fred W. Born	Milford	Fred W. Born	Milford
192	Terrill Co-op. Cry. Assn. c	Terrill	R. A. Klingbeil	Terrill	P. O. Flaskegard	Terrill
193	Superior Co-op. Cry. Assn. c	Superior	Mrs. Gladys V. Martens	Superior	Theo. Erickson	Superior
Dubuque County—						
194	Crown Dairy Co. c	Dubuque	A. M. Conzett	2279 Jackson St., Dubuque	C. I. Turner	Dubuque
195	Holy Cross Cry. Co. c	Holy Cross	Leo. Sweeney	N. Buena Vista	Jas. McCool	N. Buena Vista
196	Hague Cry. Co. c	Zwingle	H. S. Hague	Zwingle	H. S. Hague	Zwingle
197	Worthington Cry. Co. c	Worthington	C. Boehler	Worthington	C. N. Boehler, Jr.	Worthington
198	Sherrill Cry. Co. c	Sherrill	J. C. Boleyn	1660 Rohnberg Ave., Dubuque	Fred Koeller	Dubuque, R. 1
199	New Vienna Central Cry. Co. c	New Vienna	Henry Smith	New Vienna	W. C. Frank	New Vienna
200	Globe Cry. Co. c	Luxemburg	Geo. Friedmann	N. Buena Vista	Jno. P. Crippes	New Vienna, R 23

STATE DAIRY COMMISSION.

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CREAMERY LIST—CONTINUED

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Number	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
Dubuque County—Continued						
301	Farley Cry. Co.	Farley	G. W. Cropp	Farley	Thos. E. Landis	Farley
302	Fillmore Co-op. Cry. Co.	Fillmore	R. E. Curve	Bernard	Richard Fontz	Cascade, R. 28
303	*Beatrice Cry. Co.	Dubuque	A. O. Elvidge	Dubuque	Morris Healy	Dubuque
304	O'Neill Cry. Co.	Richardsville	C. O'Neill	Waupeton	A. R. Barker	Waupeton
305	*Iowa Dairy Co.	Dubuque	Andrew Fluetich	Dubuque	W. F. Schroeder	Dubuque
306	Fars. Golden Star Cry. Co.	Dyersville	Albert J. Kern	Dyersville	Wm. Cornell	Dyersville
307	Hickory Valley Cry. Co.	Dyersville (5 m. ne.)	John Ramm	Farley	Peter Goetzinger	Dyersville, R. 21
308	Cascade Co-op. Cry. Co.	Cascade	P. J. Conlin	Cascade	Albert Fay	Cascade
309	Columbian Cry. Co.	Dubuque	Henry W. Laude	Dubuque, R. 4	Joe Taylor	Dubuque, R. 4
310	Hoprig Fars. Co-op. Cry. Co.	Baltown	Albert Cummer	Specht's Ferry	Henry Koehler	Specht's Ferry
311	*S. P. Wadley Co.	Dubuque	S. O. Wadley	Dubuque	W. P. Beeckler	Dubuque
Emmet County—						
212	Fars. Cry. Co.	Armstrong	G. Stewart	Armstrong	J. J. Boland	Armstrong
213	Estherville Cry. Co.	Estherville	W. A. Kerr	Estherville	J. M. Kerr	Estherville
214	Farmers Cry. Co.	Wallingford	O. O. Refsell	Wallingford	J. C. Jensen	Wallingford
215	Hoprig Fars. Co-op. Cry. Co.	Ringsted (8 mi. sw.)	Jno. C. Bosold	Graettinger, R. 2	Julius Jensen	Hoprig
216	Denmark Cry. Co.	Ringsted (3 mi. ne.)	P. L. Peterson	Ringsted	Louis Anderson	Ringsted
Fayette County—						
217	Oran Cry. Co.	Oran	J. N. Getz	Oran	B. F. Bentley	Oran
218	German Cry. Co.	Westgate (3 1/2 mi. n. e.)	Wm. Seegers	Sumner, R. 1	L. C. Barnes	Sumner
219	Maple Grove Cry. Co.	Oelwein (4 mi. s. w.)	Thos. E. Sadler	Hazelton, R. 2	Thos. E. Sadler	Hazelton, R. 2
220	Alpha Fars. Cry. Co.	Alpha	Jno. T. Gager	Alpha	J. F. Cummings	Alpha
221	Richdel Cry. Co.	Sumner (7 mi. n. e.)	P. F. Wittenburg	Sumner	C. A. Day	Sumner
222	Fars. Mut. Co-op. Cry. Assn.	Stanley (5 1/2 mi. n. e.)	Geo. Jellings	Stanley	C. S. Payne	Stanley
223	Waucoma Fars. Co-op. Cry. Co.	Waucoma	Thos. McManey	Waucoma	W. H. Eischeld	Waucoma
224	Riverside Cry. Co.	Wadena	F. J. Schoeder	Wadena	A. Z. Corr	Wadena
225	Westgate Cry. Co.	Westgate	P. S. Coleman	Westgate	E. H. Homann	Westgate
226	The Fars. Co-op. Cry. Co.	St. Lucas	G. H. Hackman	St. Lucas	Ben H. Kuennen	St. Lucas
227	Center Valley Cry. Co.	Sumner (7 1/2 mi. n. w.)	J. S. Briggs	Fayette, R. 1	F. M. Zell	Sumner, R. 2
228	Randall Fars. Co-op. Cry. Co.	Oelwein	H. C. Harwood	Oelwein	Hans Broby	Oelwein
229	Jefferson Co-op. Cry. Co.	Oelwein (4 mi. n. w.)	H. H. Meyer	Independence	Anton Smith	Oelwein, RFD
230	Harlan Fars. Mut. Co-op. Cry. Co.	Maynard	J. C. Lewis	Maynard	C. B. Bracy	Maynard
231	Hawkeye Cry. Co.	Hawkeye	J. Q. Adams	West Union	Chris. Russier	Hawkeye
Fayette County—						
232	Fayette Cry. Assn.	Fayette	Peter E. Jubb	Fayette	G. M. Miller	Fayette
233	Elgin Fars. Dairy Co.	Elgin	Meichor Luchsinger	Elgin	Ed Hanson	Elgin
234	Clermont Valley Cry. Co.	Clermont	F. F. Ferguson	Clermont	Ammon Erickson	Clermont
235	Fars. Cry. Co.	Arlington	Floyd Finney	Arlington	E. E. Mittelstadt	Arlington
236	Oelwein Fars. Co-op. Cry. Co.	Oelwein	L. C. Harwood	Oelwein	Hans Broby	Oelwein
237	West Union Fars. Co-op. Cry. Co.	West Union	F. O. Billings	West Union	B. F. Schultz	West Union
Floyd County—						
238	Rockford Co-op. Cry. Assn.	Rockford	E. F. Briggs	Rockford	J. C. Farnham	Rockford
239	Niles Creamery Co.	Nilesville	Frank Brunner	Charles City	A. Larsen	Charles City
240	Charles City Cry. Co.	Charles City	N. H. Nelson	Charles City	Carl Peterson	Charles City
241	Nora Springs Cry. & Produce Co.	Nora Springs	W. F. Miner	Nora Springs	C. Finnell	Nora Springs
Franklin County—						
242	Fars. Co-op. Cry. Co.	Dows	H. J. Iverson	Dows	Frank L. Larson	Dows
243	Latimer Co-op. Cry. Co.	Latimer	Chas. Johnson	Latimer	Rasmus Nielsen	Latimer
244	Hamilton Cry. Co.	Goutier	Geo. Dohmann	Hampton	Herbert Soballe	Goutier
245	Ackley Cry. Co.	Ackley	P. J. Martin	Ackley	Wm. Kotenbeutel	Ackley
246	Fars. Cry. Co.	Alexander	B. G. Cunningham	Alexander	H. E. Gates	Alexander
247	*Hampton Cry. Co.	Hampton	F. L. Tanner	Hampton	Carl Meier	Hampton
248	Bradford Cry. Co.	Bradford	Geo. Freese	Bradford	H. Brokaw	Bradford
Fremont County—						
249	Sidney Co-op. Cry. Co.	Sidney	H. S. Magel	Sidney	M. C. Peterson	Sidney
Greene County—						
250	G. W. Nicholson Co.	Grand Junction	Wilbur W. Wertz	Grand Jet.	Geo. O. Fisher	Grand Jet.
Grundy County—						
251	Reinbeck Cry. Co.	Reinbeck	Sweitzer Bros.	Reinbeck	E. F. Sweitzer	Reinbeck
252	Fredsville Co-op. Cry. Co.	Dike (4 1/2 mi. ne.)	Geo. W. Boysen	Dike	A. F. Schultz	Cedar Falls
253	Beaver Center Cry. Co.	Stout (3 mi. sw.)	Andrew J. Meyer	Stout	T. E. Dilger	Stout
254	Grundy Center Produce Co.	Grundy Center	B. R. Churchill	Grundy Center	B. R. Churchill	Grundy Center
255	Ferr Cry. Co.	Parkersburg (7 mi. s.)	W. H. Henning	Stout	T. Soltes	Stout
256	German Twp. Cry. Co.	Ackley	P. J. Martin	Ackley	N. Schutler	Ackley, RFD.
Guthrie County—						
257	Menlo Cry. Co.	Menlo	F. L. P. Hitecock	Menlo	H. H. Colbert	Menlo
258	Guthrie Center Co-op. Cry. Co.	Guthrie Center	J. A. McLaughlin	Guthrie Center	A. W. Hanks	Guthrie Center
259	Casey Cry. Co.	Casey	Harlie E. Smith	Casey	W. E. Cline	Casey
260	Bayard Co-op. Cry. Co.	Bayard	E. E. Strasser	Bayard	Chris. Rasmussen	Bayard

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STATE DAIRY COMMISSION.

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Number	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
Hamilton County—						
261	Jewell Cry. Co. ----- c	Jewell -----	M. J. Mansager -----	Jewell -----	M. J. Mansager -----	Jewell -----
262	Stratford Co-op. Cry. Co. ----- s	Stratford -----	Chris. Morek -----	Stratford -----	Chris. Morek -----	Stratford -----
263	Ellsworth Co-op. Cry. Assn. ----- c	Ellsworth -----	S. Stenberg -----	Ellsworth -----	O. B. Stenberg -----	Ellsworth -----
264	Randall Fars. Cry. Co. ----- c	Randall -----	M. G. Olson -----	Randall -----	M. G. Olson -----	Randall -----
265	Ellingson Mathre & Co. ----- i	Webster City -----	Ellingson-Mathre Co -----	Webster City -----	I. W. Kroskop -----	Webster City -----
Hancock County—						
266	Woden Fars. Cry. Co. ----- c	Woden -----	Adolf Orthel -----	Woden -----	Jno. Paulson -----	Woden -----
267	Kanawha Fars. Mut. Cry. Co. ----- c	Kanawha -----	Thos. H. Thompson -----	Kanawha -----	B. O. Brownlee -----	Kanawha -----
268	Concord Cry. Co. ----- c	Garner -----	G. H. Lade -----	Garner -----	J. A. Fenger -----	Garner -----
269	Fars. Co-op. Cry. Co. ----- c	Garner -----	J. Kiesel -----	Garner -----	C. R. Conway -----	Garner -----
270	Goodell Co-op. Cry. Co. ----- c	Goodell -----	John Smith -----	Goodell -----	M. M. Sorenson -----	Goodell -----
271	Crystal Cry. Co. ----- c	Crystal Lake -----	J. P. Johnson -----	Crystal Lake -----	N. P. Pederson -----	Crystal Lake -----
272	Britt Co-op. Cry. Co. ----- c	Britt -----	H. A. Schaper -----	Britt -----	Geo. G. Kolthoff -----	Britt -----
Hardin County—						
273	Alden Co-op. Cry. Co. ----- c	Alden -----	E. C. Edwards -----	Alden -----	Jno. S. Smith -----	Alden -----
274	Eldora Cry. Co. ----- i	Eldora -----	Jensen & Hadley -----	Eldora -----	R. R. Hadley -----	Eldora -----
275	Hubbard Co-op. Cry. Co. ----- c	Hubbard -----	H. K. Granner -----	Hubbard -----	Fred Herzog -----	Hubbard -----
276	Hubbard Co-op. Cry. Co. ----- c	Iowa Falls -----	E. E. Benedict -----	Iowa Falls -----	J. R. Jones -----	Iowa Falls -----
277	Concord & Scott Cry. Co. ----- c	Radcliffe (5 mi. sw.) -----	LeRoy Anderson -----	Radcliffe -----	J. F. Burdett -----	Radcliffe -----
278	Owasa Co-op. Cry. Co. ----- c	Owasa -----	W. N. McLennan -----	Owasa -----	G. J. Gudknecht -----	Owasa -----
279	S. P. Wadley Co. ----- s	Iowa Falls -----	O. Dillon -----	Iowa Falls -----	J. Fiete -----	Iowa Falls -----
Harrison County—						
280	Magnolia Cry. Co. ----- c	Magnolia -----	F. H. Cadwell -----	Logan, R. 2 -----	B. F. O'Hart -----	Magnolia -----
281	*Roundy-McMurray Co. ----- s	Woodbine -----	H. J. McMurray -----	Woodbine -----	Walter Evans -----	Woodbine -----
Howard County—						
282	Maple Leaf Cry. Co. ----- c	Maple Leaf -----	D. Lane -----	Elma R. 1 -----	N. W. Graf -----	Elma R. 1 -----
283	Fars. Co-op. Cry. Co. ----- c	Protovin -----	C. P. Pecknovsky -----	Protovin -----	Wenzel Kaderabek -----	Protovin -----
284	Saratoga Co-op. Cry. Assn. ----- c	Saratoga -----	Jno. H. Viebrock -----	Lime Springs -----	Henry Foss -----	Saratoga -----
285	Elma Co-op. Cry. Co. ----- c	Elma -----	J. P. Whelan -----	Elma -----	J. P. Whelan -----	Elma -----
Cresco County—						
286	Cresco Cry. Co. ----- i	Cresco -----	D. A. Palmer -----	Cresco -----	D. A. Palmer -----	Cresco -----
287	Schley Cry. Co. ----- i	Schley -----	C. A. Fosse -----	Cresco R. 8 -----	C. A. Fosse -----	Cresco -----
288	Fars. Co-op. Cry. Assn. ----- c	Chester -----	L. A. Eggerichs -----	Chester -----	C. C. Plummer -----	Chester -----
289	Fars. Cry. Co. ----- c	Lime Springs -----	A. J. Cray -----	Lime Springs -----	O. H. Buchner -----	Lime Springs -----
290	Cresco Milk Co. ----- s	Cresco -----	F. B. Hulls -----	Cresco -----	A. C. Hillstad -----	Cresco -----
Humboldt County—						
291	Clover Cry. Co. ----- s	Thor -----	Lewis Olson -----	Thor -----	Barne Hill -----	Thor -----
292	Rutland Cry. Assn. ----- c	Rutland -----	Jas. Osia -----	Rutland -----	Joe Bogh -----	Rutland -----
293	Wacousta Cry. Assn. ----- c	Ottosen -----	A. O. Clave -----	Ottosen -----	C. C. Anker -----	Ottosen -----
294	*Humboldt Cry. Co. ----- s	Humboldt -----	I. N. Clark -----	Humboldt -----	A. H. Bertelson -----	Humboldt -----
295	Owlake Cry. Co. ----- c	Goldfield (5 mi. w.) -----	C. M. Clausen -----	Goldfield -----	Wm. Larsen -----	Goldfield -----
296	Bode Cry. Assn. ----- c	Bode -----	H. C. Olson -----	Bode -----	Iver Shursen -----	Bode -----
Iowa County—						
297	Shimer Cry. Co. ----- c	Conroy -----	S. H. Stanerson -----	Conroy -----	Christ Lundhoy -----	Conroy -----
298	Genoa Bluff Cry. Co. ----- c	Ladora (6 mi. se.) -----	M. W. Ketting -----	Williamsburg R. 4 -----	Geo. P. Byrne -----	Conroy -----
299	Ladora Cry. Co. ----- c	Ladora -----	E. J. Warren -----	Ladora -----	J. O. Ersland -----	Marengo R. 1 -----
300	Marengo Fars. Co-op. Cry. ----- s	Marengo -----	O. W. Gode -----	Marengo -----	B. S. Wallace -----	Marengo -----
301	Victor Co-op. Cry. Co. ----- c	Victor -----	H. F. Lenocker -----	Victor -----	H. F. Lenocker -----	Victor -----
302	Troy Cry. Co. ----- c	Williamsburg -----	Geo. C. House -----	Williamsburg -----	W. R. Edwards -----	Williamsburg -----
303	York Cry. Co. ----- c	Williamsburg -----	H. W. Hudepohl -----	South Amama -----	G. E. Steinke -----	Williamsburg -----
304	Parnell Co-op. Cry. Co. ----- c	Parnell -----	Ed. Carroll -----	Parnell -----	H. D. Henion -----	Parnell -----
Ida County—						
305	Murphy-Wehde Produce Co. ----- i	Holstein -----	Gus. Wehde -----	Holstein -----	John Suiter -----	Holstein -----
Jackson County—						
306	Monmouth Cry. Co. ----- i	Monmouth -----	C. E. Mills -----	Monmouth -----	F. G. Irons -----	Monmouth -----
307	Andrew Cry. Co. ----- i	Andrew -----	E. D. Hansen -----	Maquoketa -----	Chas. Von Rhein -----	Andrew -----
308	*Hansen Cold Storage Co. ----- i	Maquoketa -----	E. D. Hansen -----	Maquoketa -----	D. J. Hagerty -----	Maquoketa -----
309	St. Donatus Cry. Co. ----- c	St. Donatus -----	Heinrig & Frantzan -----	St. Donatus -----	J. P. Frantzan -----	St. Donatus -----
310	Sterling Cry. Co. ----- i	Lamotte -----	Hoffman Cry. Co. -----	Lamotte -----	Jno. M. Hoffman -----	Lamotte -----
311	Springbrook Cry. Co. ----- i	Springbrook -----	Jno. Gonner -----	Springbrook -----	J. D. Schurbon -----	Springbrook -----
312	Springbrook Cry. Co. ----- s	Preston -----	Balch W. Newman -----	Elgin, Ill. -----	A. J. Negus -----	Preston -----
313	Preston Cry. Assn. ----- c	Preston -----	Samuel McNeill -----	Preston -----	J. A. Gordon -----	Preston -----
314	Farmers Union Co-op. Cry. Co. ----- c	Maquoketa -----	C. Hinkleman -----	Maquoketa -----	A. Other -----	Maquoketa R. 1 -----
315	Fulton Co-op. Cry. Co. ----- c	Fulton -----	John Heide -----	Fulton -----	Casper Myrom -----	Fulton -----
316	Fars. Cry. Co. ----- c	Sabula -----	F. O. White -----	Sabula -----	T. A. Golden -----	Sabula -----
317	Bellevue Cry. Co. ----- i	Bellevue -----	J. F. Runkle -----	Bellevue -----	Oscar Hanapel -----	Bellevue -----
Jasper County—						
318	Baxter Dairy Co. ----- c	Baxter -----	Aug. Klemme -----	Baxter -----	G. W. Peterson -----	Baxter -----
319	Newburg Cry. Co. ----- s	Newburg -----	Jens Jensen -----	Newburg -----	Jens Jensen -----	Newburg -----

CREAMERY LIST—CONTINUED

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Number	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
Jefferson County—						
320	*Fairfield Pure Butter Co. i	Fairfield	Fisher, Long & Lyngholm	Fairfield
Jones County—						
321	Fawn Creek Cry. Co. i	Anamosa	W. D. Romine	Anamosa	Jake Zubrod	Anamosa
322	Fars. Co-op. Cry. Co. c	Monticello	O. W. Brazelton	Monticello	Fred Lehman	Monticello
323	Downville Fars. Cry. Co. i	Monticello (5 mi. nw.) ..	C. R. Wilder	Monticello	C. R. Wilder	Monticello
324	Scotch Grove Co-op. Cry. Co. c	Scotch Grove	H. R. Jacobs	Scotch Grove	W. A. Rizer	Scotch Grove
325	Langworthy Co-op. Cry. Co. c	Langworthy	Jno. H. Batchelder	Langworthy	Jno. H. Batchelder	Langworthy
326	Amber Co-op. Cry. Co. c	Amber	P. B. Daly	Anamosa R. 4	S. F. Nickels	Amber
327	Fars. Co-op. Cry. Co. c	Center Junction	C. A. Burmeister	Center Jct.	A. F. Seneff	Center Jct.
328	Anamosa Cry. Co. i	Anamosa	H. M. Derleth	Anamosa	H. M. Derleth	Anamosa
329	*Iowa Creamery Co. s	Oxford Junction	S. L. Murphy	Oxford Jct.	Otto Hokum	Oxford Jct.
Keokuk County—						
330	*Geo. M. Griffin Cry. Co. i	Sigourney	Geo. M. Griffin	Sigourney	O. A. Jones	Sigourney
331	S. E. Reisman Produce Co. i	What Cheer	S. E. Reisman	What Cheer	Robt. Storey	What Cheer
Johnson County—						
332	Autoerat Dairy Co. i	Iowa City	Wm. A. Fry	Iowa City	Wm. F. Wyman	Iowa City
Kossuth County—						
333	Fars. Co-op. Cry. Assn. c	Ledyard	J. J. Tilmoney	Ledyard	H. M. Deyer	Ledyard
334	Rahm Bros. Cry. Co. i	St. Benedict	E. F. Rahm	St. Benedict	F. L. Haldeman	St. Benedict
335	Whittemore Cry. Co. c	Whittemore	Thos. Carmody	Whittemore	A. M. Whitney	Whittemore
336	Lotts Creek Co-op. Cry. Co. c	Lone Rock (8mi. sw.) ..	Jno. Markgraf	Lone Rock	Wm. Kessler	Lone Rock
337	Swea City Co-op. Cry. Co. c	Swea City	R. H. Walker	Swea City	Carl Nelson	Swea City
338	St. Joseph Co-op. Cry. Co. c	St. Joseph	Nicholas Gales	Bode R. 1
339	Sexton Co-op. Cry. Co. c	Sexton	C. A. Little	Sexton	L. H. Larsen	Sexton
340	Seneca Co-op. Cry. Co. c	Fenton (7 mi. ne.)	M. Jensen	Fenton	W. H. Anderson	Fenton
341	Lone Rock Co-op. Cry. Co. c	Lone Rock	Robt. Jacob	Lone Rock R. 1	Will Helgason	Lone Rock
342	Irvington Co-op. Cry. Co. c	Irvington	A. P. Ives	Irvington	A. R. Wilder	Irvington
343	Fars. Co-op. Cry. Co. c	Hobart	A. E. Clayton	Algona	Joel Blomster	Algona

344	Germania Co-op. Cry. Co. c	Germania	M. J. Dyer	Germania	M. J. Dyer	Germania
345	Fenton Cry. Co. c	Fenton	O. F. C. Laage	Fenton	C. F. Bollig	Fenton
346	Bancroft Co-op. Cry. Co. c	Bancroft	Frank A. Fangman	Bancroft R. 2 ..	A. J. Doleschal	Bancroft
347	Burt Co-op. Cry. Co. c	Burt	M. E. Warner	Burt	R. E. Clemons	Burt
348	Plum Creek Co-op. Cry. Co. c	Algona (5 mi. ne.)	H. J. Bode	Algona	M. J. Bobo	Algona
349	Algona Co-op. Cry. Co. c	Algona	J. B. Hofins	Algona	L. P. Anderson	Algona
350	Wesley Cry. Co. i	Wesley	Fred F. Lockwood	Wesley	Fred F. Lockwood	Wesley
351	Titonka Co-op. Cry. Co. c	Titonka	Geo. G. Schutjer	Titonka	S. S. Hudson	Titonka
Lee County—						
352	S. P. Pond Co. c	Keokuk	F. H. George	Keokuk	J. P. McDonald	Keokuk
Linn County—						
353	Walker Iowa Creamery	Walker	H. J. Nietert	Walker	S. W. Laird	Walker
354	Springville Cry. Co. i	Springville	C. A. Batchelder	Springville	J. S. Marshall	Springville
355	Ely & Western Cry. Co. s	Ely	Frank J. Dolezal	Ely	Frank Dolezal	Ely
356	Center Point Cry. Co. i	Center Point	C. N. Pollock	Center Point	Leo Denison	Center Point
357	Valley Farm Cry. Co. i	Central City (3 mi. nw.) ..	P. G. Henderson	Central City R. 3 ..	Earl George	Central City R. 3 ..
358	Central City Cry. Co. s	Central City	E. E. Henderson	Central City	W. A. Stone	Central City
359	*Gurle-Barth Co. s	Cedar Rapids	B. H. Shinn	Cedar Rapids	C. C. McCue	Cedar Rapids
360	Rogers Cry. Co. i	Rogers	A. J. Barth	Cedar Rapids	W. I. Dilger	Rogers
361	Coggon Cry. Co. i	Coggon	O. C. Capper	Coggon	O. C. Capper	Coggon
Louisa County—						
362	Oakville Cry. Co. s	Oakville	Geo. W. Graham	Oakville	Wm. Boyle	Oakville
Lyon County—						
363	Inwood Cry. Co. i	Inwood	H. C. Nelson	Inwood	H. C. Nelson	Inwood
364	George Cry. Co. s	George	H. H. Hopkins	Rockford, Ill., 216 Brown Bld.	Ed. Wilson	George
365	Rock Rapids Cry. Co. i	Rock Rapids	W. J. Purchas	Rock Rapids	F. B. Lucia	Rock Rapids
Mahaska County—						
366	*Oskaloosa Cry. Co. s	Oskaloosa	Oskaloosa Cry. Co.	Oskaloosa	L. F. Clark	Oskaloosa
Marion County—						
367	Pella Cry. Co. s	Pella	David VanSittert	Pella	T. Smorenburg	Pella
Marshall County—						
368	Marshalltown Cry. Co. i	Marshalltown	J. J. Bork	Marshalltown	Carl A. Carlson	314 S. Third Ave. Marshalltown
369	State Center Fars. Cry. Assn. c	State Center	R. Robinson	State Center	G. T. Shaunce	State Center
370	Minerva Valley Cry. Co. c	Clemons	L. H. Armbricht	Clemons	E. W. Frederickson	Clemons
371	Dunbar Cry. Co. c	Dunbar	C. M. Bergeson	Dunbar	H. Jensen	Dunbar

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CREAMERY LIST—CONTINUED

Number	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
Mills County—						
372	Glenwood Cry. Co.s	Glenwood	L. E. Geil	Glenwood	F. D. Shiftlet	Glenwood
Mitchell County—						
373	New Haven Cry. Co.i	New Haven	Julius Brunner	Osage R. 4	Julius Brunner	Osage R. 4
374	Little Cedar Cry. Co.i	Little Cedar	G. L. Heftler	Little Cedar	G. L. Heftler	Little Cedar
375	Osage Co-op. Cry. Assn.c	Osage	John Torsleff	Mitchell	S. Klemsrud	Osage
376	St. Ansgar Cry. Co.c	St. Ansgar	M. A. Tollefson	St. Ansgar	H. R. Bullis	St. Ansgar
377	Fars. Co-op. Cry. Co.c	Orchard	E. O. Clapper	Orchard	M. M. Blandin	Orchard
378	Rock Creek Co-op. Cry. Assn.c	Osage (9 mi. sw.)	H. L. Johnson	Rudd	H. M. Crocker	Osage
379	Stacyville Cry. Co.i	Stacyville	Mrs. J. B. Spensley	Stacyville	Chas. Woodhewer	Stacyville
Monona County—						
380	Moorhead Cry. Co.i	Moorhead	P. D. Nelson	Moorhead	P. D. Nelson	Moorhead
Monroe County—						
381	Albia Cry. Co.i	Albia	Sam Jones	Albia	Earl Burlingame	Albia
Muscataine County—						
382	Muscataine Produce & Ice Co.s	Muscataine	Dr. T. F. Beveridge	Muscataine	J. E. Jones	Muscataine
O'Brien County—						
383	Union Cry. Co.s	Paullina	Wm. Coin	Paullina	J. C. Joslin	Hartley
384	Hartley Cry. Co.s	Hartley	J. C. Joslin	Hartley	Adolph Christensen	Sutherland
385	Sutherland Cry. Co.i	Sutherland	Adolph Christensen	Sutherland	L. W. Woodhewer	Sheldon
386	Sheldon Cry. Co.i	Sheldon	D. A. Miller	Sheldon	Wm. Gehris	Paullina
387	Caldonia Cry. Co.s	Paullina (6½ mi. sw.)	G. Harris	Paullina		
Osceola County—						
388	Ashton Cry. Co.i	Ashton	Kramer Bros.	Ashton	M. Kramer	Ashton
389	Fars. Co-op. Cry. Co.c	Melvin	Fred J. Bauman	Melvin	Geo. W. Wheeler	Melvin
390	Fars. Cry. Co.c	Ocheyedan	Arthur E. Hindt	Ocheyedan	H. W. Becker	Ocheyedan
Page County—						
391	Sibley Cry. Co.i	Sibley	L. Lohnbakken	Sibley	Jno. De Vrie	Sibley
392	Fairview Cry. Co.i	Harris	L. J. Hagerty	Harris	H. A. Screedan	Harris
393	*Clarinda Poultry Buttr & Egg Co. s	Clarinda	G. V. Dryden	Clarinda	O. J. Gustin	Clarinda
Palo Alto County—						
394	Depew Cry. Co.c	Cylinder (6 mi. n.)	R. Buchan	Emmetsburg	Henry Hanson	Cylinder
395	West Bend Co-op. Cry. Co.c	West Bend	A. L. Frye	West Bend	O. W. Dubbs	West Bend
396	Fars. Co-op. Cry. Co.c	Ruthven	G. A. Appelmann	Ruthven	J. H. Tripp	Ruthven
397	Palo Alto Cry. Co.c	Graettinger (5½ mi. w.)	P. K. Iverson	Graettinger	Myron Williams	Graettinger, R. 1
398	Mallard Butter & Cream Assn.c	Mallard	T. C. Truog	Mallard	T. R. Wilson	Mallard
399	Lost Island Cry. Co.c	Graettinger	Charley Jensen	Emmetsburg R. 3	Matt. P. Junker	Graettinger R. 1
400	Emmetsburg Cry. Co.c	Emmetsburg	Lewis Stuchmer	Emmetsburg	M. Anderson	Emmetsburg
401	Rushlake Cry. Co.c	Curlew	D. Z. Reid	Curlew	C. W. Larsen	Curlew
402	Cylinder Cry. Co.i	Cylinder	E. W. Reid	Cylinder	V. A. Reid	Cylinder
403	Silver Lake Cry. Co.c	Ayrshire	J. J. Martin	Ayrshire	Fred Shelman	Ayrshire
404	Fairville Cry. Co.s	Fairville	Jos. Kliegl	Cylinder	W. D. Kueker	Cylinder
405	Fars. Co-op. Cry. Co.c	Graettinger	F. L. Lambe	Graettinger	Win. Matters	Graettinger
406	Rodman Cry. Co.i	Rodman	Carl Nelson	Swea City	Elmer Gustafson	Rodman
Plymouth County—						
407	LeMars Cry. Co.s	LeMars	Hutchinson Bros.	Sioux City	P. E. Hornor	LeMars
408	Reimsen Cry. Co.s	Reimsen	H. H. Hopkins	Rockford Ill.	Jas. Lovestrom	Reimsen
409	Payne Bros. Cry. Co.i	Kingsley	Carl Lissner	Kingsley	Carl Lissner	Kingsley
410	Grant Twp. Cry. Co.c	Craig (3½ mi. se.)	Fred Kusch	Craig	B. H. Loeffler	LeMars R. 4
Polk County—						
411	*Des Moines Cry. Co.s	Des Moines	B. S. Schermerhorn	Des Moines	A. L. Larson	4100 Kingman, DM
412	*Fars. Co-op. Produce Co.s	Des Moines	L. O. Loizeaux	Des Moines	Nels. Danielson	Des Moines
413	*Beatrice Cry. Co.s	Des Moines	H. R. Wright	Des Moines	R. O. Rae	Des Moines
Pocahontas County—						
414	Pocahontas Cry. Co.i	Pocahontas	J. A. Crowther	Pocahontas	Gust Wehler	Pocahontas
415	Laurens Cry. Co.i	Laurens	J. G. Hinn	Laurens	F. W. Johnson	Laurens
416	Palmer Cry. Co.i	Palmer	Geo. Siebels	Palmer	Ed. Johnson	Palmer
417	Plover Cry. Co.i	Plover	H. Fitzgerald	Plover	A. G. Heathman	Plover
Pottawattamie County—						
418	Waterloo Cry. Co.s	Council Bluffs	Leroy Corliss	Omaha, Neb.		
419	*Bloomer Cold Storage Co.s	Council Bluffs	D. F. Anderson	Council Bluffs	J. A. Dutton	Council Bluffs

CREAMERY LIST—CONTINUED

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Number	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
Poweshiek County—						
420	Ewart Co-op. Cry. Co. c	Ewart	C. C. Bomberger.....	Ewart	C. C. Bomberger.....	Ewart
421	Deep River Cry. Co. s	Deep River	H. J. Goebel	Deep River	H. J. Goebel	Deep River
422	Grinnell Cry., Ice & Cold Storage Plant	Grinnell	J. W. Fowler	Grinnell	H. W. Spencer	Grinnell
423	Springbrook Cry. Co. s	Montezuma	B. W. Newman	Elgin, Ill.	F. O. Klingbeil	Montezuma
424	Springbrook Cry. Co. s	Guernsey	Balch W. Newman	Elgin, Ill.	O. W. Hicks	Guernsey
425	Fars. Co-op. Cry. Co. c	Jacobs	J. R. Rivers	Grinnell	F. J. Crowther.....	Jacobs
426	Brooklyn Cry. Co. c	Brooklyn	C. E. Brooks	Brooklyn	Geo. H. Guthrie.....	Brooklyn
Sac County—						
427	Hillman Cry. Co. i	Lytton	I. Hillman	Lytton	Fred Hillman	Lytton
428	Wall Lake Cry. Co. i	Wall Lake	C. W. Davis	Wall Lake	C. W. Davis	Wall Lake
429	Eden Cry. Co. s	Schaller	Geo. S. Angier	Schaller	W. F. Reid	Storm Lake
430	Fars. Co-op. Cry. Co. c	Early	L. W. McCreery.....	Early	L. W. McCreery.....	Early
431	Lake View Cry. Co. i	Lake View	E. C. Rogers	Lake View	E. C. Rogers	Lake View
Scott County—						
432	Star Cry. Co. i	Long Grove	C. S. Clapp	Eldridge	Guy Mathias	Long Grove
433	*Bell-Jones Co. s	Davenport	M. V. Jones	Davenport	Geo. Ferris	Davenport
Shelby County—						
434	Prairie Rose Cry. Co. c	Walnut (9 mi. n.).....	Jno. H. Vending	Walnut R. 2	Chris Back	Walnut R. 2
435	Fars. Mut. Co-op. Co. c	Kirkman (5 mi. e.).....	Fred Koenig	Kirkman R. 1	Nis E. Hanson	Kirkman R. 1
436	Buck Valley Cry. Co. c	Kimballtown (5 mi. nw.)	Paul Bjorn	Harlan R. 2	Peter Nymman	Harlan R. 5
437	Center Cry. Co. c	Harlan	Clarence Johnson	Harlan R. 2	L. C. Langesen	Harlan R. 2
438	Earling Cry. Co. i	Earling	Brunk & Kenkel	Earling	J. A. Bruck	Earling
439	The Harlan Cry. Co. s	Harlan	M. Ankerstjerne	Harlan	M. Ankerstjerne	Harlan
Sioux County—						
440	Hull Cry. Co. i	Hull	Jno. O. DeRoos.....	Hull	Andrew De Roos.....	Hull
441	Hawarden Cry. Co. i	Hawarden	Emil Zorr	Hawarden	Emil Zorr	Hawarden
442	Hospers Cry. Co. i	Hospers	Stover & Boterman	Hospers	Jno. J. Marx	Hospers
443	Alton Cry. Co. i	Alton	C. J. Mueller	Alton	H. E. Collins	Alton
Story County—						
444	Fars. Mut. Co-op. Cry. Assn. c	Orange City	E. J. Kraai	Orange City	J. F. Vander Meer.....	Orange City
445	Fars. Co-op. Cry. Assn. c	Boyden	Jno. Rensink	Boyden	Frank Welter	Boyden
446	Sioux Center Cry. Co. i	Sioux Center	Jelgerhuis & Co.	Orange City	J. te Veltrup	Sioux Center
447	Rock Valley Cry. Co. i	Rock Valley	F. Vander Stoep	Rock Valley	Ed. Vander Stoep	Rock Valley
448	Granville Cry. Co. i	Granville	F. J. Diederick	Granville	F. J. Diederick	Granville
Tama County—						
449	Fars. Mut. Co-op. Cry. Assn. c	Gilbert	C. P. Lake	Gilbert	C. P. Lake	Gilbert
450	Huxley Fars. Co-op. Cry. Co. c	Huxley	Sam Maland	Huxley	O. J. Olson	Huxley
451	Roland Fars. Cry. Co. c	Roland	E. M. Rod	Roland	Geo. Wick	Roland
452	Story City Cry. Co. c	Story City	Alex Henderson	Story City	Sam Severeide	Story City
453	Slater Fars. Cry. Co. c	Slater	Chas. Skortman	Slater	Clarence Clark	Slater
454	Zearing Cry. Co. s	Zearing	C. P. Bean	Zearing	C. E. Buffington	Zearing
455	Dairy Dept., Iowa State College.....	Ames	Prof. M. Mortensen	Ames	Harry J. Evans	Ames
456	McCallsburg Fars. Cry. Co. c	McCallsburg	B. H. Baumgardner	McCallsburg	O. T. Knutson	McCallsburg
Taylor County—						
457	Fars. Cry. Co. s	Garwin	Ralph Hall	Garwin	W. D. Wenthe	Garwin
458	J. H. Neil Cry. Co. i	Tama	J. H. Neil	Tama	J. H. Neil	Tama
459	Gladbrook Cry. i	Gladbrook	H. F. Beyer	Edgewood	Clarence Mitchell	Gladbrook
460	Springbrook Cry. Co. s	Elberon	Balch W. Newman	Elgin, Ill.	F. L. Francis	Elberon
461	Traer Cry. Co. i	Traer	G. E. Olsen	Traer	G. E. Olsen	Traer
Union County—						
462	Bedford Cry. Co. i	Bedford	Frank Dunning	Bedford	Leslie Klopp	Bedford
463	Peacock Butter & Ice Cream Co. i	Lenox	A. H. Peacock	Lenox	A. H. Peacock	Lenox
Wapello County—						
464	Fars. Co-op. Cry. Co. c	Afton	B. M. Breed	Afton	V. O. Williams	Afton
465	Clarinda Poultry, Butter & Egg Co. s	Creston	G. V. Dryden	Clarinda	Leonard Brotherton	Creston
Washington County—						
466	*Yorkshire Cry. Co. s	Ottumwa	R. N. Morrell	Ottumwa	C. A. Gage	Ottumwa
Wayne County—						
467	Hawkeye Condensed Milk Co. i	Brighton	T. Thompson	Brighton		
468	Seymour Co-op. Cry. Co. c	Seymour	A. E. Clemens	Seymour	Jno. McLane	Seymour
469	Old Colony Cry. Co. i	Humeston	J. L. Humphrey	Humeston	M. W. Bixby	Humeston
470	Corydon Cry. Co. s	Corydon	J. K. Green	Corydon	E. F. Davis	Corydon

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CREAMERY LIST—CONTINUED

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Number	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
Webster County—						
471	Ft. Dodge Cry. Co. i	Ft. Dodge	A. R. Loomis	Ft. Dodge	C. E. Garrison	Ft. Dodge
472	Dayton Co-op. Cry. Co. s	Dayton	J. A. Clegg	Dayton	C. L. Mills	Dayton
473	Gowrie Co-op. Cry. Co. c	Gowrie	A. E. Lindquist	Gowrie	N. H. Trimble	Gowrie
Winneshiek County—						
474	Forest City Co-op. Cry. Co. c	Forest City	Jno. Carson	Forest City	E. A. Jensen	Forest City
475	Lake Mills Cry. Co. c	Lake Mills	Ola T. Groe	Lake Mills	Carl G. Hoyland	Lake Mills
476	Lincoln Co-op. Cry. Co. c	Rake	P. N. Peterson	Rake	Henry Springer	Rake
477	Scarville Cry. Assn. c	Scarville	K. M. Larson	Scarville	Soren Kristensen	Scarville
478	Vinji Cry. Assn. c	Scarville	Ola Strom	Scarville	H. C. Standel	Scarville
479	Thompson Co-op. Cry. Co. c	Thompson	M. M. Tapager	Thompson	C. C. Clifton	Thompson
480	Buffalo Center Cry. Co. c	Buffalo Center	B. E. Hook	Buffalo Center	H. C. Thompson	Buffalo Center
481	Leland Co-op. Cry. Co. c	Leland	E. E. Branstad	Leland	S. O. Rusley	Leland
Winneshiek County—						
482	L. T. Fosse & Sons	Ridgeway	O. A. Fosse	Ridgeway	O. A. Fosse	Ridgeway
483	Lincoln Cry. Co. c	Ridgeway	O. O. Rue	Ridgeway	G. H. Bakken	Ridgeway
484	Silver Spring Cry. s	Ossian (1 m. sw.)	H. P. Nicholson	Ossian	Ola H. Hauge	Ossian
485	Nordness Cry. Co. s	Nordness	J. N. Bragestad	Decorah R. 1	Victor V. Johnson	Decorah, R 2
486	Kendallville Cry. Co. i	Cresco	Ed Holmes	Kendallville	Ed. Holmes	Kendallville
487	Rock Spring Co-op. Cry. c	Highlandville	J. J. Bjerke	Spring Grove, Minn.	P. M. Peterson	Spring Grove, Minn.
488	Highland Cry. Co. i	Newhouse, Minn. (8 mi. s.)	Bidne & Akre	Highlandville	Peter J. Bidne	Highlandville
489	Festina Cry. Co. c	Festina	W. A. Schrandt	Calmar, R. 1	Mike Hauert	Calmar, R 1
490	Calmar Cry. Co. s	Calmar	A. A. Olson	Calmar	Ever Parlow	Calmar
491	Silver Creek Cry. Co. c	Burr Oak	W. H. Emmons	Burr Oak	John O. Johnson	Burr Oak
492	Decorah Fars. Ice Cave Cry. s	Decorah	A. T. Holton	Decorah	N. O. Benedickson	Decorah
Worth County—						
493	Joice Cry. Co. c	Joice	M. D. Evans	Joice	H. K. Nelson	Joice
494	Tenold Cry. Co. c	Northwood (11 m. sw.)	O. K. Storre	Kensett R. 1	N. O. Dahlen	Northwood
495	Fertile Co-op. Dairy Co. c	Northwood	F. A. Tenold	Northwood	A. O. Peterson	Northwood
496	Hartland Dairy Assn. c	Northwood (9 mi. w.)	Gust Reyerson	Emmons, Minn.	A. O. Dahlen	Northwood
497	Fars. Co-op. Cry. Co. c	Manly	H. D. Backhaus	Manly	L. O. Knudson	Manly
Woodbury County—						
498	Fars. Butter & Cheese Assn. c	Northwood	M. D. Johnson	Northwood	F. D. Warner	Northwood
499	Kensett Cry. Co. i	Kensett	N. Gylleck	Kensett	N. Gylleck	Kensett
500	Fertile Co-op. Dairy Co. c	Fertile	J. A. Johnson	Fertile	J. A. Johnson	Fertile
501	Hanlontown Cry. Co. c	Hanlontown	F. C. Hinze	Hanlontown	F. C. Hinze	Hanlontown
Woodbury County—						
502	*Glendell Cry. Co. s	Sioux City	J. E. Schulta	Sioux City	J. W. Rhuhy	Sioux City
503	*Blue Valley Cry. Co. s	Sioux City	C. J. Walker	Chicago, Ill.	C. L. Smith	Sioux City
504	*Hanford Produce Co. s	Sioux City	J. H. Whittemore	Sioux City	M. O. Wheelock	Sioux City
505	*Arctic Cry. Co. s	Sioux City	C. E. Gear	Sioux City	Alfred Krudberg	Sioux City
Wright County—						
506	*Fountain Cry. Co. i	Goldfield	W. E. Mann	Goldfield	C. H. Jennings	Goldfield
507	Norway Co-op. Cry. Co. c	Belmond (9 mi. w.)	C. J. Baxter	Belmond R. 3	Hans Foss	Kanawha R 5
508	Clarion Cry. Assn. c	Clarion	Wiert Johnson	Clarion	Antis Fatland	Clarion
509	Rowan Co-op. Cry. Co. c	Rowan	A. C. Rietz	Rowan	A. O. Pelley	Rowan
510	Fars. Co-op. Cry. Co. c	Belmond	G. F. Elder	Belmond	C. H. Vanderham	Belmond

STATE DAIRY COMMISSION.

CHEESE FACTORY LIST

Number	Name of Factory	Located at or Near	Name of Proprietor, Secretary or Manager	Address	Name of Cheesemaker	Address
	Bremer County—					
1	Janesville Cheese Factory—	Janesville	Geo. V. Fowler	Waterloo	Chas. Eys	Janesville
	Cass County—					
2	Lewis Cheese Factory—	Lewis	M. E. Deban	Lewis	M. E. Tolenn	Lewis
	Chickasaw County—					
3	Ionla Cheese Factory—	Ionla	U. W. Kann	Ionla	Kann Bros.	Ionla
	Howard County—					
4	Clover Leaf Cheese Factory—	Cresco	J. J. House	Cresco	J. J. House	Cresco
	Washington County—					
5	Dublin Cheese Factory—	Dublin	J. S. Mangold	Washington	J. S. Mangold	Washington
	Wayne County—					
6	DeHaan Cheese Factory—	Linleville	Matthew DeHaan	Linleville	Matthew DeHaan	Linleville

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