

Departments Exhibit at Dairy Cattle Con. Waterloo-1921 STATE OF IOWA

1921

REPORT OF THE

DAIRY AND FOOD COMMISSIONER

FOR THE

YEAR ENDING OCTOBER 31, 1921

W. B. BARNEY STATE DAIRY AND FOOD COMMISSIONER DES MOINES, IOWA

> Published By THE STATE OF IOWA Des Moines

LETTER OF TRANSMITTAL

HON. N. E. KENDALL, Governor.

Sir: In compliance with the law, I have the honor to submit herewith the Thirty-fifth Annual Report of the Dairy and Food Commissioner.

W. B. BARNEY, Dairy and Food Commissioner. Des Moines, December 15, 1921.

REPORT OF COMMISSIONER

From our 1920 report we quote the following as to economic conditions.

Economic readjustment has been the chief problem of the past year. Disturbed and abnormal conditions, the heritage of every great war, mean a trying period of reconstruction for every nation involved—a period of economic warfare between conflicting interests during which many suffer and few are benefited. Following every great crisis comes a period of high prices and great business activity during which extravagance is the rule of the hour and a false feeling of prosperity, induced by the circulation of tremendous amounts of deflated money, gives the wage earner in particular; a feeling of financial security which history does not show to be justified. This in turn is followed by a true period of readjustment, when, because of the inability of the great mass of consumers to pay the prices established by inflation, prices again seek their normal level.

We are free to admit at this time that we have not passed through this period without serious difficulties and that this is especially true in its application to the farmer.

It is very well for some of our economists to travel over the country telling our people that the worst is over, but times in this and other agricultural districts are not going to be very much better so long as the farmer must accept from 20 to 25 cents for oats and from 30 to 35 cents for corn and 2 to 3 cents for green hides, all of which are less than pre-war prices, much less than the cost of production.

These prices lessen his purchasing power, so that he is no longer able to pay forty to sixty dollars for a suit of clothes and one to one dollar and a half for a neck-tie and eight to twelve dollars for a pair of shoes, with other articles of wearing apparel for himself and family in the same proportion.

Conditions will not be materially improved until the farmer can get at least somewhere near the cost of production, or a little profit. This he cannot do at this writing. Either his products must be materially increased in price or the things he is obliged to purchase must stand somewhere near the same per-

DAIRY AND FOOD DEPARTMENT

centage of reduction he has been obliged to accept on his products.

Corn sold as high as \$1.60 to \$1.80. We will admit that possibly this was an unreasonably high price, perhaps just as far from its real value as 25 to 30 cents is at this time. I recently overheard the following conversation between two gentlemen, coming out of a restaurant. One asked the other if he had had a good meal; the answer was that he should have had, as he had eaten three bushels of corn.

There is no reason why the railroads should get more for transporting a bushel of corn to the seaboard than the Iowa farmer gets for raising it. There has been too much alarm about some of our railroads going into bankruptcy and too little consideration given to the farmer who is, or will be, in bankruptcy. The railroads should do their share of bringing the country back to normal, the same as the farmer has had to do. An industry as well organized as our railroads, generally is quite able to protect itself. It is only through the help of the Iowa Farm Bureau that the farmer has received the protection that he has been able to get.

The dairy farmer has suffered less in the readjustment than any other branch of the agricultural industry. Dairy products have not depreciated in price in the same proportion that grain, cattle and hogs have. This matter will be treated at greater length in another part of this report.

TUBERCULOSIS IN OUR DAIRY HERDS

A great advance has been made in cleaning up our milk producing herds within the last two or three years. Possibly, in no other year have as many applications been filed requesting the tests as in the year just drawing to a close. The fact that the Thirty-Ninth General Assembly put a provision in the law giving preference to dairy herds had a good effect. Besides this, the new law gave cities and towns greater authority than they had ever before enjoyed to enact ordinances having for their purpose the regulation of the milk supply.

House File No. 361 reads as follows, and is of no little importance to those who are interested:

Cities and towns, including cities under special charter, in addition

to powers already granted, shall have within their corporate limits the power by ordinance (1) To provide for the inspection of milk, skimmed milk, buttermilk and cream, for domestic or potable use. (2) To establish and enforce sanitary requirements for the production, handling and distribution of milk, skimmed milk, buttermilk and cream for domestic or potable use. (3) To compel the tuberculin test by an accredited veterinarian for dairy cattle supplying milk for human consumption. (4) To provide for the pasteurization of milk, skimmed milk and cream, except that produced from a cow or herd of cows which have been placed and maintained under state or federal supervision for the eradication of tuberculosis, provided that, a cow or herd of cows shall be considered under such supervision when there is on file in the office of the commission of animal health an application for such supervision, and except that produced from a cow or herd of cows which have been tested and found free of tuberculosis by an "accredited" practicing veterinarian.

Any ordinance requiring a tuberculin test of a cow or herd of cows, whose milk is or shall be sold within the corporate limits of any city or town, as provided in this act, shall further provide that if such test has not been previously made, it may be applied at any time within six (6) months from the date of the passage of such ordinance, and the provisions thereof shall apply only after the expiration of said period.

For the purposes of this act an "accredited" practicing veterinarian is one who has successfully passed an examination of the bureau of animal industry of the United States Department of Agriculture and the commission of animal health of this state and is authorized to make tuberculin tests of accredited herds of cattle under the provisions of section six (6) of the uniform methods and rules governing accredited herd work which was approved by the bureau of animal industry of the United States Department of Agriculture, December 6, 1920.

Nothing in this act shall be construed as giving to such cities and towns authority to adopt ordinances in conflict with the state law, or to abrogate the authority now or hereafter vested in the state dairy and food commission.

During the early part of 1921, this department began receiving numerous requests for copies of an ordinance that would be suited to the needs of the different towns and cities throughout the state. It is perfectly easy to understand that it would be an extremely difficult matter to draw up an ordinance that would be suited to each and every city within the state, the variation in the size of the different places having much to do with conditions under which milk is produced.

I, finally, concluded to counsel with the different bodies, whose names you will find at the end of a "Proposed Milk Ordinance" which follows and is made a part of this report. With

6

DAIRY AND FOOD DEPARTMENT

8

the help of the attorney general and after a number of conferences, with interested parties, we brought out what we termed a proposed ordinance. We assume that it has met with considerable favor, as we have reason to believe that it has been enacted in one hundred or more places. Quite a number of places have made only slight changes, but this was expected.

PROPOSED MILK ORDINANCE

Issued May 18, 1921, by W. B. BARNEY, Dairy and Food Commissioner of the State of Iowa and approved by Aximal Health Commission, State Board of Health, League of Iowa Monicipalitiles, State Dairy Council.

Subject to such changes as may be deemed necessary to suit conditions in cities and towns where adopted.

AN ORDINANCE providing for the inspection of milk, skim-milk, buttermilk and cream; to establish and enforce sanitary requirements for the production, distribution and handling thereof, and to require pasteurization, and for tuberculin tests of herds supplying same, and prescribing penalities for violation.

Be it ordained by the Council of the City of Iowa:

Section 1. For the purpose of this ordinance, milk is the fresh, clean, lacteal secretion obtained by the complete milking of one or more healthy cows, properly fed and kept; cream is the portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean, and skimmilk is the portion of milk, poor in fat, from which the cream has been removed. The term "skim-milk" shall also include the fresh, clean, lacteal secretion of one or more healthy cows and containing less than three per cent of milk fat or less than eleven and one-half per cent of milk solids.

Sec. 2. It shall be unlawful to distribute or intend to distribute any milk, skim-milk or cream which is adulterated.

For the purpose of this ordinance, milk, cream and skim-milk shall be considered adulterated:

In case of milk, cream, and skim-milk;

First. If any water or any other substance has been added.

Second. If it contains any visible dirt or be contained in any container which is not clean.

Third. If it be obtained from any animal having disease, sickness, ulcer, abscess or running sore or which has been obtained from a cow within fifteen days before or five days after calving. Fourth. If it be obtained from a cow stabled in an unhealthful place or fed upon any substance in a state of putrification or of an unhealthful nature.

In the case of milk:

If it contains less than three per cent (3%) of milk fat or less than eleven and one-half per cent (111/2%) of milk solids,

In the case of cream:

If it contains less than sixteen per cent (16%) of milk fat.

Sec. 3. It shall be unlawful to distribute or intend to distribute any misbranded milk, skim-milk or cream.

For the purpose of this ordinance, milk, cream and skim-milk shall be considered to be misbranded.

If it is labeled or branded so as to deceive or mislead the purchaser or if the package bears any statement, design or device which is false or misleading in any particular.

Sec. 4. It shall be unlawful to distribute or intend to distribute any milk, cream or skim-milk without obtaining a milk license from the Dairy and Food Commission of the State of Iowa and recording such license with the clerk. The clerk shall keep a permanent record of all such licenses and all revocations thereof.^{*}

*Under section IV of this ordinance no one distributing milk shall be required to take out a license except those distributing from a vehicle or store as provided in section 1444 C. C.

Sec. 5. It shall be unlawful to distribute or intend to distribute milk, skim-milk or cream unless the same is produced and distributed in strict compliance with the following rules and regulations:

(a) All milk shall be bottled but shall not be bottled on any delivery wagon or at any other place than in the milk house or milk plant, and shall be delivered in the original bottle. Nothing in this paragraph shall apply to consumers taking two gallons or more at one delivery.

(b) No dirty or unwashed bottles shall be received or be in the possession of any distributor of milk. Milk bottles, milk cans or other containers for milk shall not be used for any other purpose than containing milk and milk products. Bottles, cans or other containers shall not be left at any dwelling or other building under quarantine so long as quarantine is maintained; but shall be emptied into a receptacle provided by the person desiring milk at such quarantine place.

(c) All raw milk, skim-milk or cream shall be the product of a healthy cow or herd of cows as determined by a physical examination, and produced from a cow or herd of cows which have been placed and maintained under State or Federal supervision for the eradication of tuberculosis, provided that, a cow or herd of cows shall be considered

under such supervision where there is on file in the office of the Iowa Commission of Animal Health an application for such supervision, or which have been tested and found free of tuberculosis by an "accredited" practicing veterinarian. A cow or herd of cows other than those placed under State or Federal supervision shall be tested for tuberculosis at least once a year, and where reactors are found, they must be removed and a retest conducted within six months. No cow or cows shall be allowed to associate with or added to a cow or herd of cows which have been found free of tuberculosis, as above provided, except such cow or cows as have been found free of tuberculosis. For the purpose of this ordinance, an "accredited" practicing veterinarian is one who has successfully passed an examination of the Bureau of Animal Industry of the United States Department of Agriculture and the Commission of Animal Health of this State and is authorized to make tuberculin tests of accredited herds of cattle under the provision of section six (6) of the Uniform Methods and Rules governing accredited herd work which was approved by the Bureau of Animal Industry of the United States Department of Agriculture, December 6, 1920. Such tuberculin test of a cow or herd of cows, whose milk is to be distributed, may be applied at any time within six (6) months from the date of the passage of this ordinance.

(d) No milk or cream shall be distributed or intended for distribution except that produced from a cow or herd of cows as provided by paragraph (c), except it shall first have been efficiently pasteurized. Milk shall be deemed to have been efficiently pasteurized when it has been subjected to a temperature of approximately 145 degrees Fahrenheit and not less than 142 degrees, and held at this temperature for at least thirty minutes. Every pasteurizing apparatus shall be equipped with a standard type automatic time and temperature recording device which shall be attached, adjusted and used in a manner prescribed by the dairy inspector. The recording chart shall be dated and filed at the pasteurizing plant, and be available for inspection by the dairy inspector. No milk produced by a cow or cows which have reacted to the tuberculin test shall be pasteurized and distributed or intended for distribution as fluid milk.

(e) Barns in which milk is produced shall be clean, well lighted and ventilated, and shall have floors constructed of cement or other impervious material. Manure shall not be allowed to accumulate within fifty (50) feet of the barn. Cows shall be clean and free from visible dirt at all times. Milking shall be done with clean dry hands into some form of small top pail with smooth seams or with a properly cleaned and sterilized mechanical milker.

(f) Milk shall be removed from the barns immediately after milking to a clean place and strained through new cotton or other clean efficient strainer. Milk shall be cooled immediately after milking to a temperature approximating that of well water or less and maintained at that temperature until delivered, except during the process of pasteurization.

(g) All milk houses, milk depots, milk plants and milk distributing vehicles shall be kept in a clean and sanitary condition at all times, in accordance with the standards and regulations fixed by the State law.

(h) All utensils which come in contact with milk shall be thoroughly washed and sterilized with live steam or boiling water or by any other effective and harmless method of sterilization approved by the dairy inspector.

(i) All persons engaged in the production, handling and distribution of milk shall be free from all communicable diseases and from any contact with any communicable disease. Every operator of a dairy farm, milk depot, milk distributing plant or milk delivery wagon shall within twenty-four hours notify the mayor or dairy inspector of the presence of any communicable disease on his farm, among his employees or the families of his employees.

(j) Every producer of milk which is distributed or intended for distribution, shall within twenty-four hours notify the mayor or dairy inspector of the presence of any disease among the cows producing any of the milk distributed by him.

Sec. 6. It shall be unlawful to return any dirty or unwashed milk bottle, can or container to a distributor of milk, but all such shall be thoroughly rinsed with clean, cold water immediately after being emptied; or use any milk bottle, can or other container for any other purpose than containing milk or milk products. In case of quarantine, consumer shall provide a receptacle into which milk, skim-milk, buttermilk or cream shall be emptied.

Sec. 7 The council shall appoint a suitable person as dairy inspector at a salary to be fixed by the council by resolution. The dairy inspector shall familiarize himself with all State laws, ordinances and rules and regulations of all State officers and of the State and local Board of Health relating to the production and distribution of milk, skim-milk and cream, and shall see that all such laws, ordinances and rules are strictly enforced. He shall take samples of milk, skim-milk and cream distributed or intended for distribution for determining whether such complies with all State laws, ordinances, rules and regulations of all State officers, and of the State and local Board of Health. He shall inspect all dairies from which milk is distributed and all distributing stations and places where milk is kept for distribution, together with their equipment and employees. A complete record of all conditions found shall be filed with the mayor. The powers and duties of the dairy inspector may be exercised by, combined with or delegated to any other officer or employee by action of the council by resolution. In the discharge of his duties he shall co-operate with the State Dairy

DAIRY AND FOOD DEPARTMENT

and Food Commissioner, the Animal Health Commission, and the State Board of Health.

Sec. 8. Any one violating any of the provisions of this ordinance shall, upon conviction, he subject to imprisonment not exceeding thirty days or to a fine not exceeding one hundred dollars. Whenever the fine and costs, imposed for the violation of this ordinance, are not paid, the person convicted may be committed to jail until such fine and costs are paid, not exceeding thirty days.

Sec. 9. All ordinances or parts of ordinances in conflict with this ordinance are hereby repealed.

Sec. 10. This ordinance shall be in force from and after its passage and publication as provided by law.

Dated at Des Moines, Iowa, May 18, 1921.

12

Approved by

DAIRY AND FOOD COMMISSION STATE BOARD OF HEALTH ANIMAL HEALTH COMMISSION LEAGUE OF IOWA MUNCIPALITIES STATE DAIRY COUNCIL

This department has nothing to do with the enforcement of the law having for its purpose the eradication of tubercularcattle. We work in close co-operation with Dr. Peter Malcolm, State Veterinarian, but all correspondence in this matter should be addressed to him.

PROPOSED DAIRY BUILDING AT FAIRGROUNDS

In my 1920 Report, I called the attention of the Legislature in the following language:

"An appropriation for the erection of a dairy building at the State Fair will be asked from the Legislature this winter. (See cut in fore part of Report.) That Iowa's great dairy industry should have only two small booths and a refrigerator display to represent it, at the greatest of all state fairs, is a matter of great surprise to visitors from other states. This apparent indifference to the dairy industry has been a source of considerable dissatisfaction to the various dairy organizations throughout the state. Complaints from exhibitors of dairy machinery and supplies are growing more numerous each year, until they have now reached the stage where threats to discontinue exhibiting are being heard. It is my opinion that this building should be second to none in the country. Besides ample space for the exhibiting of dairy machinery and supplies, it should be large enough to permit of the serving of dairy products and contain a working model of all phases of dairy manufacturing. By this, I mean that a creamery, market milk plant, ice cream factory, and cheese factory should be in actual operation each day of the fair. The opportunity to carry on educational work among the men of Iowa's dairy plants by model factories of this kind is very great. Not only would a building of this kind possess great educational value but it would be a source of considerable revenue to the fair board."

The above was written early in the summer, by the time the Legislature convened, agricultural products had taken such a drop and conditions were such that it seemed unwise to do anything or urge the erection of such a building, until materials and labor had declined in price in something like the same proportion as farm products.

I sincerely hope that as early as 1923 the readjustment period will have passed and times will be normal, so that the Fortieth General Assembly may deal generously with this most important matter.

DAIRY COMMISSIONERS

	County From	Da	te of First	
NAME	Which Chosen	Appoint	ment Years served	
Henry D. Sherman	. Jones	May 1.	18861886-1890	
Augustus C. Tupper	. Mitchell	May 1,	18901890-1894	
William K. Boardman	Story	May 1,	18941894-1898	
Levi S Gates	. Delaware	May I.	18981898-1898	
Byron P. Norton	.Howard	Nov. 8,	18981898-1902	
Herbert R. Wright				
*Died October 11th 19	808 Ryron P	Norton	appointed to fill	

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

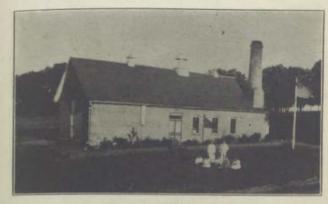
Note: Name of Office changed by Act of Thirty-first General Assembly to Dairy and Food Commissioner.

DAIRY AND FOOD COMMISSIONERS

Herbert R. WrightPolkJuly 1, 1906....1906-1910 William B. BarneyFranklinMay 1, 1910....1910-



Farmers Co-operative Creamery Garnavillo, Iowa.



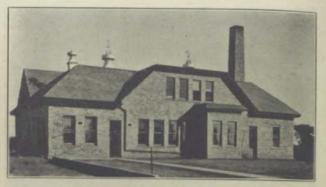
Farmers Co-operative Creamery Northwood, Iowa.



Farmers Co-operative Creamery Festina, Iowa.



Farmers Co-operative Creamery Monticello, Iowa.



Farmers Co-operative Creamery Plymouth, Iowa.



Farmers Co-operative Creamery Nashua, Iowa.

DAIRY PRODUCTS

Estimates of the income, received by the State, from Dairy Products, during the past year place the figures at \$130,147,679.36, derived from the following sources:

Creamery Butter	\$47,896,805.29
Ice Cream	6,138,839.30
Market Milk	24,869,492.83
Cheese	81,113.89
Cottage Cheese	260,000.00
Farm Dairy Butter	18,528,750.00
Condensed Milk	372,678.05
Skim-milk & Buttermilk	
Fertilizer	20,000,000.00

With the exception of creamery butter, you will find that the foregoing figures show a decided decrease in values, as compared with the figures given in my 1920 report. I account for this by the declining of prices on all of our markets during the past year, as well as by a decrease in the amount of some of the products manufactured.

I, naturally, expected that prices would decline this year. However, I have been more than gratified during the entire year with the condition of our Dairy Markets, especially, when compared with the market values of all other farm products and we are confident that the milch cow has saved thousands of Iowa farmers from financial ruin.

Corn, oats and other grains, as well as all forage crops produced on our Iowa farms have been selling below the cost of production. Considering the favorable market value of Dairy Products, I decided that it was an opportune time to impress upon the Iowa farmer the necessity of marketing considerable of his cheap grain, through the butterfat route, by feeding it to milch cows and with this in mind and with the help of Wallaces' Farmer and some suggestions from the Dairy Husbandry Department of the Iowa State College, we issued the following poster.

DAIRY FARMERS

Market your corn and oats in the form of butterfat. No doubt you have heard considerable protesting against the low prices which producers are receiving for corn and oats. The figures mentioned below give a comparison of the return for corn and oats when fed to milk cows and should be of interest to all having to do with the dairy industry.

Milk Cows Give the Following Values to Grains:

Butteriat Price	Corn Value	Oats Value
36	* 54	37
38	57.6	40
40	61	42
42	65	44.6
44	68.3	47
46	* 72	49.5
48	75.4	52
50	79	54.5

This value of corn and oats takes into consideration the added labor of butterfat production and investment in cattle.

SUGGESTIONS FOR FEEDING.

The Dairy Husbandry Department of the Iowa State College, suggests the following rations to feed milk cows for the promotion of butterfat production and maximum use of Iowa's surplus corn crop;

400 pounds cracked corn or corn and cob meal;

200 pounds Ground Oats;

100 pounds Oil Meal or Cotton Seed Meal.

One hundred pounds of ground soy beans is superior to oil meal or cotton seed meal and is being grown in some localities of Iowa. A ration not quite as satisfactory as the above may be made up of equal parts by weight of corn and coh meal, or cracked corn and ground oats. With this clover hay and corn ensilage should be fed. Generous feeding of milk cows with thoughtful management of the herd will do more to increase production of butterfat than anything and develop a higher cash market for Iowa's corn and oat crop.

STATE DAIRY AND FOOD COMMISSION. W. B. BARNEY, Commissioner.

We are inclined to believe that the suggestions offered on this poster were more or less popular at this time, as we have issued over 60,000 copies, all of which have been distributed over the state and they were mailed out only upon request.

There has been very little change in the consumption of farm butter. However, I still believe, as I have stated in previous reports, that "While the use of good dairy butter upon the farm, or in towns adjacent to the place of its manufacture is not to be condemned, I feel that in general Iowa dairymen would profit more and more by sending a good grade of cream to the creamery, instead of converting it into butter on the farm. This applies, particularly, to dairy butter, which is traded in at the country store for merchandise, a practice which is still in vogue in many parts of this state. In many instances, these country stores receive such a large amount of dairy butter, of widely differing grades, that the only means which they have of disposing of it, is to send it to the renovating plant, where it is manufactured into low-grade butter. It is almost impossible to estimate the loss sustained from this practice but it is safe to say that it is very large."

This not only applies to the farmer, or producer, but to the country merchant as well and I am inclined to place the blame for considerable of this loss upon the merchant, for the reason, that very few, if any, merchants are making a differential in the price per pound paid for the different grades of dairy butter. We understand that a great many lowa merchants are more or less worried over this proposition, at this time, especially in southern lowa and I would recommend as a solution of this problem, that all lowa farm dairy butter be paid for strictly according to grade or quality.

Reports from creameries show that over 5,000,000 pounds more of creamery butter was sold within the state than during the previous year. We are inclined to believe that this is due to the decline in price, which has enabled a great many people of moderate means to use creamery butter, instead of oleomargarine, which was the case when butter was beyond their reach in price.

From a recent report, issued by the Internal Revenue Department, we are informed that there has been a $47\frac{1}{2}\%$ decrease in the consumption of oleomargarine, during the first nine months of the past year. We also learn from reports from the Federal Dairy Division that there has been a 19% increase in the production of dairy products, these reports are interesting, when compared with the reports from cold storage warehouses, which show that there is less creamery butter in cold storage than on the same date one year ago. This indicates

DAIRY AND FOOD DEPARTMENT

that the consumer prefers butter to oleomargarine, when there is not too great a difference in the price.

This, also, confirms the fact that the American people prefer butter to any of its substitutes.

In view of the fact that we have had such an enormous increase in production, during the past year and with every indication pointing towards still greater production, during the coming year, I would recommend that the dairy interests of the state do all they can to stimulate the consumption of dairy products, by appropriating liberal amounts for advertising and educational work, especially such work as is being carried on by organizations, such as the National Dairy Council, etc.

A great amount of interest is now being taken by our Iowa Creameries in our State Butter Mark or as it is better known and more commonly called our State Brand. We have had a few more creameries each year who have applied for and qualified for the use of this Brand, however, the interest has not been as keen as we would like to have it. Market conditions at the time the Brand was originated were not as discriminate, as far as quality was concerned, as they are today and there was not much of an inducement for creameries to go to the expense and trouble of qualifying for the use of the Brand. However, the plants who have stayed by the Brand are now winning out, as market conditions have changed considerably.

I believe there is a ready market, within the state, which would be willing to pay a premium for all the State Brand Butter which will be manufactured in Iowa for some time to come, providing, the State Brand creameries get together and arrange a plan for putting their product on our home markets.

CREAMERY BUTTER

The year 1921 shows a remarkable increase in Iowa's butter production. Iowa Creameries have manufactured 98,740,419 pounds of butter, which is 12,520,807 pounds more than was manufactured in 1920 and 1,111,631 pounds more than was manufactured in 1917, which was formerly our largest year of production, since I have been Commissioner.

Despite the fact that the market price has declined considerable during the year, the total value of creamery butter manufactured has increased, due, of course, to the increase in production. This year's output sold for \$47,896,805.29. This is \$32,351.87 more than the total value last year, making this the Banner Year, as far as values are concerned.

That there has been a marked improvement in the quality is not denied by any one, this condition has been brought about by several agencies, mainly, by market conditions, greater interest in grading and attention to details by our operators, increased interest in dairying on the part of all producers, which naturally, means greater interest in quality and by the increased efforts of this Department and the Dairy Manufacturing Division of the Extension Department of the Iowa State College, along with the help of all our State Dairy Organizations.

To back us up with our contention that this is also our Banner Year, in regard to the improvement in quality we wish to refer you to the Banner, which was won on butter exhibited at the National Dairy Show, by our Iowa creameries. (A cut of which appears elsewhere in this report, along with the men who made the butter).

A banner of this kind is offered each year by the National Creamery Buttermakers' Association. The state of Minnesota has won every banner, previously offered, I am very much gratified to know that Iowa can once more proclaim herself a quality butter producing state.

I noticed considerable more interest was being taken in the improvement of quality early in the year, especially was this true in regard to the butter scoring contests, which were held each month and after the exhibit at the Iowa State Fair and the Dairy Cattle Congress, at Waterloo, we found such a marked improvement in the quality that we predicted Iowa had a very good chance to win the Banner at the National Show and later results proved that our prediction was correct.

I am satisfied that most of the credit for improvement in quality must be given to our creamery operators. We are each year putting more and more of our creameries in charge of wide-awake, trained and up-to-date men, more of this sort of men are becoming interested in creamery work, for the reason,

DAIRY AND FOOD DEPARTMENT

22

that our creamery managers, directors, etc., have begun to realize that they must pay salaries that will attract first class men to this work.

To become a first class operator, it is necessary for a man to serve several years' apprenticeship and receive some Dairy School training. Helpers, or second men, as we sometimes call them, generally receive small salaries. Dairy School training costs considerable money and good wide-awake men will not spend the time or money necessary to make them first class operators, unless they receive a salary commensurate with the training required to fit them for this class of work.





William Helgason, Wallingford





U. C. Ladage, Strawberry Point 10WA BUTTERMAKERS-WINNERS OF THE NATIONAL ASSOCIATION BANNER



W. H. Eischeid, Edgewood



Henry Segebarth, Fairbank



E. H. Rohrssen, Waverly



J. E. Morris, Jessup



F. H. Harms, Tripoli



E. M. Guiney, Tripoli

IOWA BUTTERMAKERS-WINNERS OF THE NATIONAL ASSOCIATION BANNER

DAIRY AND FOOD DEPARTMENT

CONDENSED MILK

The manufacture of condensed milk has gradually decreased in Iowa since 1919. It seems that this product continues to be a drug on the market, which condition can, probably, be accounted for by the fact that during the war there was an unlimited demand for this product. A very great amount of the output of this country was exported. During this time, (due to the enormous demand for this product), a great many new condenseries were erected, especially in some of the dairy districts of Wisconsin and some of the eastern states. Foreign demands, naturally, fell off with the close of the war, with the result that the markets of this country were flooded with condensed milk. A great many eastern plants have closed down during the past year or have installed the necessary equipment to convert their product into butter.

We are in hopes that this condition will clarify itself during the coming year and that the industry will once more get back to a normal basis.

As was reported last year, Iowa has but two condenseries, which are still operating although they have converted some of their product into butter. Their total output decreased in value during the year from \$733,521.34 to \$372,678.05.

CHEESE

The manufacture of cheese in lowa shows a decrease of 458,640 pounds less than last year. Reports received by this department also, show that there were but ten factories operating, as compared with seventeen one year ago and but one of these ten is in operation, at this time, the others having been closed, temporarily, due to the unsatisfactory condition of our cheese markets and the fact that they were unable to pay the producer satisfactory prices for milk.

Our ten factories, which only operated part time during the year, manufactured a total of 331,483 pounds, which was valued at \$81,113,89. This is far below the amount consumed by the state and we are sorry that conditions are such that Iowa must import a large amount of this product to supply home demands.

As I have stated before, cheese should occupy a prominent

place in our dietary, especially, on account of its high nutritive value and palatability.

Iowa manufactures and consumes over 2,000,000 pounds of cottage cheese, annually, and this valuable food is becoming more popular with the housewife each year.

ICE CREAM

The ice cream industry of the state has survived another strenuous year, price reductions, high manufacturing costs and express rates, war taxes, shortage of ice and poor collections have been the cause of constant uncertainty and worry to the manufacturer and retailer, as well.

In spite of stringent financial conditions, which resulted in a great many people being out of employment, the consumption of ice cream has increased 144,000 gallons in this state during the past year.

Our factories manufactured, approximately, 5,580,763 gallons, which sold for a total of \$6,138,839.30. Although we have had a slight increase in the amount manufactured the total valuation of this product decreased \$657,103.70, due to a decline in the wholesale price.

The war tax placed upon the sale of ice cream is, undoubtedly, partly responsible for the failure of the public to consume a larger amount of ice cream. This is brought about through the tendency, on the part of certain retailers, to advance the price to the next even nickel, when a war tax of one or two cents is placed upon each dish served. That is, a dish of ice cream retailing for fifteen cents incurs a war tax of two cents. Many dealers simply advance the total price to twenty cents and absorb the war tax. Needless to say, this extra three cents are not shared with the manufacturer, and from his standpoint is harmful, since there is no gainsaying the fact that this levying of an additional five cents does keep many people from making a purchase.

I am satisfied that the tax on ice cream should be eliminated as the citizens of Iowa, at least, do not class ice cream as a luxury but consider it one of our most valuable food products. The wholesale price was reduced by the manufacturer to

The wholesale price was reduced by the most manufacsome extent this year, however, I believe that most manufac-

DAIRY AND FOOD DEPARTMENT

28

turers would welcome still greater reductions, providing, they were assured that the retailers would make corresponding reductions and the public would get the benefits to be derived from such a move.

MARKET MILK

This year has seen a large increase in the production of milk, due in large part to the financial condition and the drop in price of all farm products.

The producer has found out that the dairy cow affords him a steady supply of cash which he has needed so badly. The result has been, in many cases, a production in excess of the demand, which has kept prices down to the producer and has been reflected in lower prices to the consumer. These conditions have, also, kept the price of all manufactured dairy products, as cheese, butter and condensed milk, much lower than they have been for several years.

It is apparent that these conditions will continue unless there is a greater consumption in dairy products. Educational campaigns have been made in many cities on the value of milk as a food and in every case an increased consumption has been noted. It is unfortunate that in times of low income the housewife will in most cases reduce the amount of milk for the family, in preference to any other food. She must be taught that she can better conserve the health of her family by reducing the amount of any other article of food.

One of the purposes of the National Dairy Council is to promote the consumption of market milk by teaching the public the value of milk, as a food and its necessity in the diet. Large amounts of literature and illustrated posters have been distributed to accomplish this and the results have been gratifying. Marked results have been obtained among school children, in many cities, by inducing them to drink milk each day at school. An especial effort has been made in these schools to get under-nourished children to drink milk and the records show that this class of children have made a marked improvement in their mental as well as physical condition, after taking the milk for several months.

I believe that the quality of the market milk in Iowa compares very favorably with that of any other state. A law requiring dairy cattle to be tested for tuberculosis, passed by the Thirty-Ninth General Assembly and appearing elsewhere in this report, will materially improve the quality of our milk supply. Last fall this department conducted a market milk contest, in which eleven cities entered. The scoring was made in accordance with the rules followed by the United States Department of Agriculture, the scoring being made upon the results of chemical analysis, cleanliness and bacteria. By means of these contests we are able to locate any milk unfit for food and the cause for this condition.

With this information the inspector can give the necessary instructions for making the milk safe and in compliance with the law.

In the scoring of milk, the perfect score is as follows:

35	points	for	bacteria.
25	points	for	flavor and odor.
10	points	for	cleanliness.
10	points	for	fat.
10	points	for	solids, not fat.
5	points	for	acidity.
5	points	for	the container.

The scores in the contest are as follows:

Ottumwa	61.80
Davenport	64.08
Des Moines	76:20
Burlington	69.35
Marshalltown	63.26
Mason City	62.58
Dubuque	77.36
Sioux City	80.57
Fort Dodge	61.64
Cedar Rapids	88.93
Waterloo	68.83

While only a few of the scores are close to a perfect score of 100, it does not indicate a dangerous condition as the low scores were produced by high bacterial counts due to not cooling the milk properly, which allows the harmless lactic acid bacteria to develop in large numbers. The inspection of the market milk supply is of prime importance and the law provides that the Commissioner may appoint a milk inspector in cities of 10,000 or more population. But there is not sufficient

DAIRY AND FOOD DEPARTMENT

30

funds to pay them for full time, thus they are placed upon a per diem basis, they receiving pay for from five to fifteen days each month, according to the population.

Much good can be accomplished by the city and state appointing the same man and employ him full time and the combined salaries insures the employment of more efficient inspectors. The state authority gives the added advantage to the city of dairy farm inspection outside the city limits which a city inspector would not have. Dairy farm inspection is a very important part of market milk supervision, as it reaches the source of the supply where lax methods and poor equipment are often the cause of impure milk.

CREAM GRADING

Ever since the advent of the cream separator, the grading of cream has been advocated, in some form or other, and as the whole milk creameries and old fashioned skimming stations gradually began to decrease, it was generally believed by those in touch with the situation that eventually some uniform system would have to be established, governing the handling and purchasing of cream, used in the manufacture of butter.

From the standpoint of improving the quality of cream received by the creamery the use of an efficient system of cream grading is all important. Until recent years the cream grading has received very little attention by our creameries. Little if any, grading was done and the same price was paid for good and poor cream. This has resulted in a general depreciation of the quality of the cream furnished by the farmer, there was no material inducement to the farmer to make a special effort in the care of the cream on the farm. Unless his personal pride and decency prompted him to produce a clean, sanitary and properly cooled cream, he was all too ready to follow the line of the least resistance and pay no attention to the quality of the cream he furnished. In fact, the failure of the creamery to grade cream put a premium on shiftless and careless handing of cream on the farm and on the receipt of poor cream in the heater

In consequence of this disregard for quality of raw material, much of the butter annually reaching the market was of unsatisfactory quality, the keeping property of much of this butter was inferior, causing it to come out of storage in a deteriorated condition, large quantities of butter had to be sold under market quotations, inviting keen competition by foreign butter and butter substitutes and rendering the establishment of a reputation for American butter in foreign markets exceedingly slow and difficult.

Within the last five to ten years, the pure food wave that has swept the country awakening the public to a keener appreciation of the value of wholesome food products of good quality, the realization on the part of the creamerymen of the necessity of supplying the market with better butter in order to dispose of it at a satisfactory margin, and the efforts of the dairy educational forces to introduce practical methods for the systematic grading of cream, have been mighty factors in focusing the attention of the creamerymen on improving their cream supply by cream grading and quality-paying.

The earliest efforts at cream grading were largely abortive. In isolated cases some concerns had the courage and determination to grade and pay on the basis of grade only. But the great majority of creameries, while acknowledging the fundamental correctness of cream grading, lacked the courage to undertake it. Their intentions foundered on the rock of competition in the cream supply territory. They lacked confidence in each other to stand by mutual agreements to start grading and quality-paying. They were fearful of losing patrons and of working into the hands of their competitors. Gentlemen's agreements, drafted in sectional and national conferences of creamerymen to grade cream, proved futile. Attempts to place legislative measures on the statute books, requiring the grading of cream, proved unconstitutional, and Government inspection of the creameries for the purpose of compelling nationwide cream grading did not materialize because of the enormity of the proposed undertaking.

While most of these proposed and apparently ideal plans failed to materialize and were automatically abandoned, one after another, the constant agitation of the subject did not fail to have its good effect. While it became clear to all practical creamerymen that the industry was not ripe as yet for an organ-

ized state- or nation-wide plan of cream grading by mutual agreement between creameries, farsighted creamery-men realized that this complex and difficult matter was a problem to be solved independently by each individual creamery and that it was to the unquestioned advantage of each individual concern to introduce cream grading in their own plants.

Today most of the really progressive creameries, large and small, are grading their cream and many of these creameries pay the farmer on the basis of quality. Those who have taken this important step are already convinced of its permanent advantages and it is only a question of time when all creameries, for their own protection, will adopt a rational system of cream grading and paying on the basis of quality. They are bound to come to the inevitable conclusion that in order to secure satisfactory returns from the market, they must furnish the market with good butter, that they cannot hold the patronage of the cream producer to furnish good cream unless they pay him a differential on the basis of quality, and that the paying of top prices for butterfat of poor quality must ultimately spell financial loss and ruin.

Keeping in mind the obstacles which have confronted the creamery that has been a pioneer and started a grading system and at the same time considering market conditions during the last two or three years, these conditions having, generally, been annoying to the manufacturer of lower grade butter, I decided that something should be done to stimulate more of an interest in cream grading and that some uniform grading system should be established in Iowa.

A meeting was held at this office early last winter, at which representatives of the co-operative and centralized creameries, Dairy Department of the State Agricultural College, State Dairy Council, Creamery Managers' and Secretaries' Association, State Buttermakers' Association and members of this Department were present. At this meeting the various problems relating to the grading of cream were discussed at length. The Department, after getting the judgment of the various members of the dairy industry represented at the meeting, established the following grades of cream and rules and regulations governing its purchase. YEASTY—Cream having a flavor resembling yeast and which has a tendency to foam when cream has been held under too high temperature.

CHEESY—Cream which smells and tastes like cheese, caused by holding sour cream for too long a period at too high temperature, under conditions not sufficiently clean.

WEEDY-Cream which has the flavor of onions, rag-weed, rape, cabbage, etc.

BITTER-Bitter cream has a taste closely resembling quinine. It is cream which has been held too long at a low temperature.

The above regulations shall be observed in the purchase of all cream by creamerymen and station operators, and by producers of cream.

W. B. BARNEY,

Dairy and Food Commissioner.

Approved July 18, 1921, by Executive Council of Iowa.

TACK THIS POSTER IN & CONSPICUOUS PLACE

Clean utensils and cooling tanks will help you to have cream which will grade Extras and Firsts.

REGULATIONS FOR CREAM GRADING

Under authority granted by Sec. 4999-a-18, the following grades of cream are hereby established.

EXTRAS

Extras shall consist of sweet cream, clean in flavor and not to contain more than .2 of 1% of acidity.

FIRSTS

Firsts shall consist of cream that is clean, smooth, free of all undesirable odors, clean to the taste and only slightly sour.

SECONDS

Seconds shall consist of cream that is too sour to grade as Firsts; may contain undesirable flavors or odors to a slight degree, also that which is too old to pass as Firsts. All sour cream containing less than 25% butterfat shall be graded as Seconds.

ILLEGAL CREAM

Under the Law, cream is a food and any cream produced from an unhealthy cow or consisting in whole or in part of a filthy, rancid, decomposed or putrid substance shall not be offered for sale. Neither shall such cream be purchased.

The following undesirable flavors and odors will not be allowed except in a slight degree in cream grading Seconds, and will be turned back as illegal.

DAIRY AND FOOD DEPARTMENT

too long or holding cream in stale cans, or using stale water in washing or rinsing cans. Musty cream is the result of holding cream in a cave, cellar, or room having stale or musty surroundings.

VERY SOUR—Cream having a very high acidity. It is the result of holding cream too long and at too high a temperature.

OILY—Oily flavor is caused by having cream near coal oil, gasoline or other similar product; also by carelessness in handling separator oil, or using cans in which any of these products have been handled.

METALLIC-Metallic flavor is that flavor which is frequently caused by cream coming in contact with rusty or poorly tinned separators, cream cans or other utensils.

EXTRAS

Extras shall consist of sweet cream, clean in flavor and not to contain more than .2 of 1% of acidity.

All containers for cream grading Extras shall be properly designated.

A space of at least 2 feet shall separate Extras from any other grade of cream.

This placard shall be tacked in a conspicuous place on the wall, immediately above the containers of cream grading Extras.

> W. B. BARNEY, State Dairy and Food Commissioner.

Approved April 1, 1921.

34

This card in white.

FIRSTS

This placard shall be tacked in a conspicuous place on the wall immediately above the receiving container of cream grading Firsts.

Firsts shall consist of cream that is clean, smooth, free from all undesirable odors, clean to the taste and only slightly sour.

All containers for cream grading Firsts shall be properly designated.

A space of at least 2 feet shall separate Firsts from any other grade of cream.

W. B. BARNEY,

Approved April 1, 1921.

State Dairy and Food Commissioner.

This card in blue.

SECONDS

This placard shall be tacked in a conspicuous place on the wall, immediately above the receiving container of cream grading Seconds.

Seconds shall consist of cream that is too sour to grade as Firsts, may contain undesirable flavors or odors to a slight degree, also that which is too old to pass as Firsts. All sour cream containing less than 25% butterfat shall be graded as Seconds. All containers for cream grading Seconds shall be properly designated.

A space of at least 2 feet shall separate Seconds from any other grade of cream.

Approved April 1, 1921.

W. B. BARNEY, State Dairy and Food Commissioner.

This card in red.

These grades are printed in card form in different colors and are posted up in the cream station at different places and the various grades placed near the card which designates the grade to which it belongs.

PURE FOOD LEGISLATION AND ITS BENEFITS

The passing of the National Food and Drug Act, in 1906, was the most beneficial legislation ever passed by Congress in the interest of the consumers of foods and drugs and honest manufacturers of these products.

Practically all of the states now have similar laws and their proper and fearless enforcement insures to the people food, which is produced and handled in a sanitary and healthful manner, free from adulteration and labeled to show their true composition.

The laws of lowa give the consumer this full protection and manufacturers vie with one another in putting out high class foods, produced under sanitary conditions and from fresh raw materials. By using these fresh raw materials and properly sterilizing the finished products, the use of preservatives has been found unnecessary, contrary to the former belief that it was impossible to keep food products for any length of time without using liberal quantities of chemical preservatives. Eternal vigilance, however, will always be the price the states and nation must pay for clean, wholesome and honestly labeled foods and drugs. As it is necessary to maintain a police force it is likewise necessary to maintain food and drug officials, to protect the consumers of these products.

Much work has been done in building up a system of cooperation between the Federal Food Authorities and the states, and much good is being accomplished in running down adulterated and misbranded products and prosecuting those responsible for placing them on the market. Under the present system,

DAIRY AND FOOD DEPARTMENT

this department is notified, by the Federal Authorities when illegal foods and drugs have been shipped into Iowa, our inspectors are then instructed to collect samples and these are sent to the Government laboratory and if found to be illegal the shipments are sizzed under Government orders and the manufacturer is cited to appear, with the result that he is fined and his goods destroyed or returned to him to be relabeled to comply with the law, he giving a bond that this will be done properly. Under this system it makes it difficult for the unscrupulous manufacturer to operate for any great length of time.

While there is considerable difference in the requirement of the food laws of the various states, there is a general belief that they should be as nearly uniform, as possible, so as to avoid the extra expense of having different lots of labels and foods to the different states. The added expense of such necessity under the present condition must be borne by the consumer of these products. Many of the states have modeled their food and drug laws after the Federal Act and no doubt in the not distant future, there will be close conformity between all laws which regulate the manufacture and sale of these products, which will be much to the advantage of all concerned.

All danger does not lie in food that is knowingly adulteated by the manufacturer. Outbreaks of food poisoning are a serious menace to the public and require prompt action by food authorities.

In the last few years there have been several outbreaks, in widely separated localities, of botulism due to the presence of the bacillus botulious in certain classes of foods. It has been found by investigators that this bacillus is widely distributed in nature and is a potential source of danger.

This bacillus itself is not poisonous but is a spore former and the poison is formed when it develops, thus the bacillus may be present in foods but unless conditions have been favor able for its growth, there is no danger in consuming the food. Boiling temperature will destroy the toxin produced by this bacillus but it will not destroy the bacillus itself, so that if the food after being heated to this temperature is kept under proper conditions, the toxin will again be produced. It is important that proper factory methods be used in preparing foods as a safegnard against this danger.

This bacillus is as liable to be found in home canned foods as those canned in factories. During the outbreak of this poisoning, in ripe olives, this department was furnished a list of shipments which had been sent into Iowa, by the Federal Authorities and we, at once, instructed the inspectors to order from sale all these shipments, which still remained on the grocers' shelves. By this quick action, possibly an outbreak of this poisoning was prevented in Iowa. This demonstrates the value of co-operation between state and Federal Food Authorities.

At times there have been attempts, in Congress, to nullify the powers of the states over its food supplies, which are shipped from other states, thus having entered inter-state commerce. The Calder Bill, now in Congress, exempts foods which have been shipped into a state, from the requirements of the state laws. This would take from the states their constitutional right to protect the health of their citizens. While a law of this kind is of doubtful constitutionality, it should not be permitted to be placed upon the statutes and every effort should he made to prevent its passage.

IMITATION EVAPORATED MILK

The Thirty-eighth General Assembly, at the solicitation of this Department, passed a law requiring all evaporated milk, made from skim-milk and cocoanut oil, to be branded "Imitation Evaporated Milk."

Owing to evils which were practiced in selling this product, it was deemed advisable to require some sort of labeling which would enable the consumer to know the nature of the product he was buying.

It was found that some grocers would sell this product for ecaporated milk and were content to let the consumer think that he was getting an evaporated whole milk. By branding this product as required by law, in large prominent type, on the main label we believe the consumer is afforded a means of protection and the producer can be protected against this product by placing a tax upon each package sold.

DAIRY AND FOOD DEPARTMENT

CANNED FOODS

(E. L. Redfern-State Chemist.)

The ever increasing amount of canned foods consumed makes their inspection of prime importance. While the canners are supposed to use every precaution to produce a salable product, as a matter of self preservation, faulty packages often get by and are to be found on the market. Cans often go bad after they have left the cannery due to faulty packing or improper handling or storing by the grocer, such as in damp cellars.

The inspector must judge by the exterior appearance whether samples should be taken and submitted to the laboratory. If the ends of the can are cupped or concave they should be given a sharp rap on the edge of a table or something solid to see if the lower end comes up even or remains cupped. If the end does not remain concave there is not sufficient vacuum in the can, provided the temperature of the weather is not too high, in which case the can would likely be a "springer" i.e., the ends could be pressed back and forth. From, this it will be seen that a can may be normal one week and a springer the next, due to the change of the weather.

The above conditions, when found, are no cause for alarm as such goods are perfectly good and salable.

The question of swelled goods is a more serious problem, and where such goods are found, they should be condemned and if possible, thrown on the dump in the inspector's presence. The slightest bulge in the end of a can is just cause for condemnation, as this is due to pressure from the inside from gases produced by fermentation or bacterial action, especially is this true in the case of such foods as peas, corn, etc. However, in acid fruits, swelling is often caused by the action of the fruit acids on the tin which liberates hydrogen gas in sufficient amounts to bulge the ends of the can, except where the can is leaky in which case the swelling is due to decomposition. The action of the fruit acids on the tin is also influenced by the temperature, being hastened when the goods are stored in a hot climate or under a metal roof during the hot summer months in this climate and retarded when held in a cool store room or during the winter months. It can be easily seen then how under certain conditions cans may be normal and under others "springers". Where there is doubt in the inspectors' mind regarding canned goods, an inspection of the contents of the can will solve the matter.

The number of vent holes in the top of a can is one which might be misleading. More than one vent hole is no proof that the goods have been reprocessed as some canners still seal the can before cooking and when the cans are removed from the kettles they are punctured to allow the air to escape, resoldered and put into the kettles and cooked the second time. Even a third vent hole is sometimes made when the second hole has failed to give the proper exhaust, due to particles of the contents stopping the hole. With the sanitary can whose use is becoming so common it is possible to find a vent hole although this is unusual and occurs when by mistake the brine or liquid has been left out and is placed in the sealed cans by means of a vent hole. Also some salmon and crab canners still prefer to vent the sanitary cans and give them a short cooking in the retorts before sealing. Sometimes upon opening a can of beans or peas there is a discoloration on the sides of the can and even on top of the food. This color which is usually black or nearly so is due to a very thin film of metallic sulphide in colloidal form. There is not enough of these materials present, however, to be injurious while they present a suspicious appearance and usually result in complaints by the purchaser. An example of this condition came to the laboratory last fall when a lady brought in a glass quart can of corn. She had canned this herself. There was a black coloration on the surface of the contents and around the neck of the jar. An examination showed that she had used one of the new brass looking covers now sold for Mason jars which has no glass lining. The brass like appearance on the cover proved be due to lacquer and the cover was made of iron. The lacquer had broken away and exposed the iron to the contents with the result that the surface had become black and uninviting in appearance. In corn canning factories this same discoloration has sometimes appeared and is supposed to be due to the corn coming in contact with metals in the cooking kettles or pipes through which the corn is passed. The National Canners'

DAIRY AND FOOD DEPARTMENT

Laboratory, under the direction of Dr. Bigelow, has put much study upon this problem and I understand has practically eliminated this trouble. The Canners' Association in recent years have done much to standardize the quality of their products and the sanitary conditions under which they are produced.

Their inspection service in the principal canning states gives them close control over their products. Reports during the last two years show that much salmon has been canned which was in various stages of decomposition with the result that the Bureau of Chemistry has condemned large quantities of salmon in various parts of the country. The cause of this practice seems to be that salmon were delivered to the cannery faster than they could be handled with the result that the fish would start to decompose before they were canned. The salmon canners have instituted an inspection service, and no doubt much of this practice will be eliminated, at least among members of the salmon canners' association.

The good work of the Bureau of Chemistry, in locating interstate shipments of canned foods, is a great help to the state authorities thereby eliminating illegal goods from the state markets and allowing the inspectors to devote more of their time to intra-state goods. The state officers' principal work on canned goods is to locate and destroy swollen goods as therein lies much danger. A survey of the Botulinus poisoning last year shows that in nearly every case the consumer or the person who cooked the spinach or who served the ripe olives admitted that they detected something was wrong with them.

Every consumer should be taught never to eat any goods that are swelled or that do not have a natural odor and taste.

The standardization of the amount of water and product to be placed in cans of the various foods by the Standards Committee will practically stop loading with water which has been practiced by some canners in the past.

IOWA EGG LAW

The purpose of the egg law is to promote fair dealing in eggs, and increase the market value of Iowa's egg crop. As with any other produce, the market value of any lot of eggs is governed by its quality. Bad eggs are worthless; good eggs command the highest market price.

In interpreting the egg law for the purpose of issuing rules and regulations, the purpose of the law has been kept clearly in mind, and such rules and regulations formulated as will tend to put our egg crop on a quality basis and thereby secure for the Iowa farmer the best price for this cash crop. Only such restrictions have been placed on buying as are necessary to prevent bad eggs entering market channels and thus lowering the market value of good eggs. These restrictions are not intended in any way to hinder free traffic in eggs by honest buyers, but to prevent the demoralization of the market by unfair buying methods.

While reliable information, showing the number of eggs produced is not available, Iowa probably ranks first as an egg producing state. The total income received by the state from this source, during the last year, probably amounts to about \$51,376,600. The average farm price for eggs during this period was 38.6 cents, which means that 133,100,000 dozen of eggs were marketed. This does not take into account of course, the large number consumed on the farms of the state.

The following tabulations showing the contrast between present egg prices and those of a few years ago, will be of interest:

AVERAGE PRICE PAID TO IOWA FARMERS FOR EGGS ON THE FIRST DAY OF EACH MONTH OF THE YEARS SHOWN

		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
19	210	28	28	21	18	18	17	16	14	17	20	22	25
H	11	26	21	14	13	14	13	12	12	14	17	20	25
B	12	27	28	23	17	17	16	15	16	17	19	22	25
15	13	23	20	17	15	15	16	15	14	16	19	23	29
19	14	27	26	22	16	16	16	16	16	20	21	21	26
15	115	28	30	22	16	17	16	15	15	16	20	23	27
-15	16	28	27	22	17	18	- 19	19	20	21	26	30	34
15	17	35	36	33	25	30	31	27	.28	32	34	35	39
35	18	42	47	38	30	31	28	28	33	33	39	42	51
15	19	56	45	30	34	37	38	33	37	38	47	52	59
19	20	55	45	39	37	38	33	37	44	48	53	64	61
39	21	49	32	21	18	16	20						

There is only one method for distinguishing good eggs from bad

40

42

DAIRY AND FOOD DEPARTMENT

ones, or which can be used for the purpose of grading, and that method is candling. Of the numerous devices sold for this purpose, the single hole or two hole candle operated in a darkened room has proven the most satisfactory. Devices designed for handling more than one egg at a time permit mistakes and carelessness to creep in and, as far as this department is concerned, their use is not advised.

Rules and Regulations Governing Licensed Egg Dealers.

 The first licensed buyer of eggs (the huckster, the local retail merchant, or others) shall candle every lot of eggs that he buys (this should be done before settlement is made).

 The licensee shall discard all eggs known as "addled," "moldy", "black-rots," "white-rots," "blood rings," "adherent yolks," eggs with bloody or green whites, eggs incubated beyond "blood ring" stage and all other eggs commonly classed as inedible.

3. The licensee shall pay only for good, edible eggs.

 The licensee shall return to the producer, if requested or if possible, the "rejects" for the producer's own examination.

The good eggs shall be kept in a cool, dry place until sold or shipped.

6. Eggs should be shipped to cold storage within forty-eight hours. If held longer than forty-eight hours they must be recandled before shipping unless they are kept at a temperature of less than sixty degrees Fahrenheit. If kept at a temperature of from forty to sixty they must be recandled if held more than seven days. If kept below forty degrees no recandling is necessary.

 Eggs known as "large hatch spots," "heavily shrunken eggs," "settled yolks," and "leaking eggs," are fit for consumption but will not stand transportation. They should be used only by the home community.

8. All "checks" and "cracks" shell eggs should be shipped in cases stenciled that they contain crack or check shell eggs.

9. All receivers of eggs should use care and intelligence in handling them, always keeping in mind that it is a waste of eggs, fillers, flats, and valuable transportation space to ship "rejects" or other eggs of doubtful character.

10. "Rejects" shall not be sold for human consumption.

 Eggs unfit for food must not be held in possession unless they are broken into a container and denatured so they cannot be used for human food.

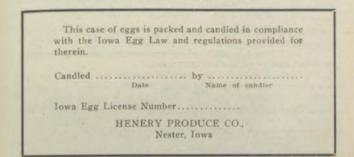
The following denaturants are approved for general use; carbolic acid, creosote and crude oil.

Special denaturants for special purposes shall not be used unless approved by this office.

 Dirty eggs and washed eggs should be used where produced. They must not be accepted at a reduction in price equivalent to their market value.

REPORT OF COMMISSIONER

13. All merchants, dealers and hucksters shall after candling eggs place on the top layer of every case of candled eggs a certificate stating the date of candling, by whom candled, and license number of licensee. This certificate shall be of the following form: (Note—this form should not be smaller than 23% by 434 inches.)



Since the question is often asked, "Who must be licensed?" the regulation pertaining to this subject is herewith re-printed:

"WHO MUST BE LICENSED?"

The law requires the following classes of dealers to take out egg dealers' licenses:

1. All merchants, hucksters and others buying eggs from producers unless such producers are also licensed egg dealers.

All dealers, regardless of the nature of their business, who sell eggs in quantities in excess of one case at a time.

The following are not required to take out a license:

1. Merchants who buy all their eggs from licensed dealers and who do not sell in lots greater than one case.

Farmers and other producers of eggs who do not sell or trade in eggs other than those produced by them or their tenants.

3. Bakeries, restaurants, etc., buying eggs for their consumption only are not classed as engaged in the business of dealing in eggs and are, therefore, not required to secure a license to buy the eggs consumed by them.

The licenses now in force expire March 1, 1923, at which time a new license must be taken out. A suitable blank for applying for the license will be sent to each dealer having a license expiring on that date, before it expires.

RULES AND REGULATIONS GOVERNING ISSUANCE OF LICENSE

 After May 25th, it is necessary that all dealers engaged in the business of buying, selling, dealing in or trading in eggs, except those retailers who buy direct from dealers, having an Iowa license, and who do not sell in lots greater than one case, obtain an egg dealer's license.

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

3. A separate license must be obtained for each place of business where eggs are sold.

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

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

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

WEIGHTS & MEASURES

In presenting our annual report I feel that the work has much to commend itself to right thinking people. It is a work of tremendous proportions which affects all classes of citizens, as the application and the underlying principles of the weights and measures law affect more people than do any other laws on the statute books. More stress is laid on the enforcement of weights and measures laws since they affect the class of citizens who can least afford to protect themselves.

Some of the activities should be enumerated here in order that the public may know of the great scope of the work. All scales, weights and measures in the state are inspected. In the last few years, much has been said and done regarding the inspection and regulation of gasoline measuring devices. No phase of our work has received more attention and rigid inspection. The work of testing the thousands of gasoline pumps and measuring devices requires much time and labor. The most encouraging feature of it being the wholehearted co-operation given by the various manufacturers of these devices and oil companies, with the result that these devices have not only been remodeled and improved upon, but a number of entirely new types have been put on the market, made to meet the weights and measures regulations. The reweighing of commodities in the various stores, and of loads of coal, as well as checking up the peddler, who has been the cause of more trouble to weights and measures men than any other type of merchant. This class of trade is made up of individuals of miscellaneous morals and dispositions. Many of them honest and willing to do what is right, but we are sorry to say, a great number with tendencies to increase their profits by trickery if given a chance. So it is that they must be constantly watched at all times. Many of them persist in using incorrect equipment, others take chances and give short weight.



This shows a few of the filegal weights and measures which have been found in use in the state. They were all condemned and confiscated by the department.

We have many complaints against coal dealers delivering short weight and upon a recent investigation of a complaint from one of our large cities in the state, we found some extreme shortages. The guilty parties were prosecuted in the courts. were convicted and fined. Some of the shortages are as follows:

340 pounds short on 2,000 pounds. 425 pounds short on 4,000 pounds. 660 pounds short on 4,000 pounds.

One coal man whose scale was condemned, defied the state and continued to weigh on them and tore the tag off. He was arrested and given a fine of \$50.00 and costs.

The routine office work has been materially increased, particularly in the matter of correspondence. Questions are continually being submitted by individuals as well as by manufacturers. The Thirty-Ninth General Assembly enacted a law providing a \$3.00 license fee on all gasoline pumps and meters; which materially increases the office work. There is also a great deal of correspondence resulting from daily reports of inspectors; reports of shortages from various sources; requests for scale inspection ; prosecutions ; complaints and reports of similar nature, which demand a large amount of attention from the Chief Inspector of Weights and Measures. Hundreds of scales and measures of various types have been confiscated and condemned. The increase in the use of the Auto Truck has been the cause of many new scales being installed. The department's records show that there have been 4,480 platform scales, 4,900 counter, 4,600 creamery scales inspected. These do not include the number of weights and measures submitted by cities, firms and individuals for verification as to their accuracy. Ten per cent were found to be incorrect. There were also 1,710 gasoline pumps inspected, of which 261/2% were found incorrect: 663 measures of which 130 were incorrect.

During the year ending November 1, 1921, the department inspected 4,025 "heavy" scales, that is, scales used by grain elevators, coal mines, retail coal dealers, railroad stock scales, sugar refineries, canning factories, etc. The revenue received by the state for the inspection of these scales amounted to \$12,-710.98.

The charge for inspection of scales of a capacity over 500 pounds up to and including 4,000 pounds capacity is \$1.00; over 4,000 pounds up to and including 21,000 pounds capacity, \$3.00 each; scales over 21,000 pounds capacity not including railroad track scales \$5.00 each; railroad track scales \$10.00 each; all hopper or Automatic scales \$2.00 each.

The revenue received by the state for scale licenses is \$6,048.00. Of the number of scales inspected 356 have been condemned for repairs; more than 280 were adjusted or their operators were instructed to make changes that would render them accurate.

The revenue received by the state for gasoline pump licenses from July 1, 1921, at which time the law became effective, up to November 1, 1921, is \$13,500.00.

All fees collected under this act, as listed above, are immediately turned over to the State Treasurer and credited to the general fund of the state. This department is operated by a direct appropriation of the Legislature and cannot use any of the fees collected.

Honest weight and measure can only be secured through the vigilance of the purchaser.

The housewife should buy only by weight and she should have a pair of scales and make a check of the various purchases from time to time to determine whether she is getting correct weight. Just recently we received a call from a lady who had purchased five one pound packages of nuts and she stated she was one ounce short on each package, as she said she had a scale and weighed them. Upon investigation we found the merchant's scale was off one ounce on one pound. She received her five ounces of nuts for which she had paid fifty cents (50c) per pound. It is also necessary that the purchaser have a knowledge of the number of pounds he should receive for a bushel or fractional part thereof.

Following is a list of the articles or commodities which must be sold by avoirdupois weight. DAIRY AND FOOD DEPARTMENT

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

entralit states, and states and so a s	1 Bush. Pounds	1 Peck Pounds	Oz 1 QL	
Apples	48	12	24	_
Apples, Dried Alfalfa Seed	24	6	12	
	60	15	30	
Barley	48	12	24	
Beans, Green	56	14	28	
Beans, Dry	60	15	30	
Beans, Lima	56	14	28	
Beeta	56	14	28	
Denna, Dry Denna, Lima Deets Every Seed Ran Room Corn Meed Bickwheat Carrois	14	816	7	
Bran	20	5	10	
Bromus Inermis	-14	334	7	
Broom Corn Seed	.50	1234	25	
Buckwheat	48	12	24	
Carrots Castor Beans	50	12%	25	
Castor Beans	50	12%	25	
Charcoal Cherries	20	5	10	
Cherries	40	10	20	
Clover Seed	60	15 20	30	
Coal	80	20	40	
Coke	40	10	20	
	70	1736	35	
Corn, Unhusked	75	18%	3734	
Corn. Shelled	56	14	28	
Corn Meal	48	12	24	
Cucumbers	48 1	12	24	
Corn Unhusked Corn Shelled Corn Maal Cucumbers Enumers	40	10	20	
		14	28	
Grapes. Stems Hemp Seed Hickory Nuts Hulled Hungarian Seed	- 40 1	10	20	
Hemp Seed	44 1	11	9.0	
Hickory Nuts Hulled	50	1916	25	
Hungarian Seed	50	12%	25	
Kaffir Corn Lime	56	14	28	
Lime	80	20	40	
Millet Seed	50		25	
Millet Seed Outs Onions	32 1	12% 8 13	16	
Onions	52	13	26	
	28	7	14	
Onion Lottom Seis Orchard Grass Heed Osage Orange Seed Parsnips Peaches Peaches, Dried Pearling	32	8	16	
Orchard Grass Seed	14	8%	7	
Osage Orange Seed	32	8	16	
Paranipa	45	11%	2914	
Peaches	48 1	12	24	
Peaches, Dried	38	836	1616	
Peanute	20	.5%	11	
	45	11%	22%	
Peas. Unshelled	50	1234	25	
Peas Deled	60	15	30	
Pluma	45	12	24	
Plums Pop Corn, Cob Pop Corn, Shelled	70 1	1714	35	
Pop Corn, Shelled	56	14.	28	
Potatoes	60.	15	20	
Quinces	48	12	24	
Rape Seed	50	1236	25	
Redtop Seed	14	314	7	
Rutabagas	60. 1	15	\$10	
Rye	56 1	14	28	
Salt	80	20	40	
Sand	130	3244	65	
Portations Cuinces Rappe Seed Redtop Seed Rutabagas Rys Saft Shorts Shorts Surghurn Saed	20 1		10	
Sorghum Seed	50	12%	25	
Speltz	40	10	20	
Sweet Corn	50 1	12%	25	
Sweet Potatoes	50	1246	25	
Timothy Seed	45	1136	2216	
Tomatose	50 -	1216	25	
Turnips	55	18%	27 14	
Walnuts	50	12%	25	
Wheat	60	15	30	
All root crops not specified above	50	1235	25	

1 dry qt.--67.2 en ins. 1 liquid qt.--57.75 eu. ins.' A dry qt. holds 14 per cent more than a liquid qt. Dry commodities must be sold by weight or dry measure REPORT OF COMMISSIONER

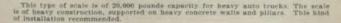
DON'T buy by the package, pail or other meaningless term. DON'T fail to verify your purchase by correct scales or measures. DON'T verify your purchase by incorrect scales and measures. DON'T forget that our business integrity is the backbone of our morality.

DON'T let the honest merchant suffer because you are careless. DON'T ever kick or complain about the high cost of living or business conditions if you make no effort to protect yourself and others.

Be sure your scales are correct before you criticize or condemn your dealer.

Make your complaints to the state dairy and food commission and sign your name; they will be treated confidentially.

> Little ounces that are stolen, Because you're careless when you buy, Make poor your honest tradesman, And your cost of living high.



DAIRY AND FOOD DEPARTMENT

IT IS TIME TO MILK (By Hugh G. Van Pelt.)

It is of record that once upon a time an Irishman stole a watch and a Dutchman stole a cow. Both were caught and lodged in jail in adjoining cells. Time passed slowly and become tiresome under the conditions.

To break the monotony and to twit the Irishman, the Dutchman said, "Pat, vat time it is?" and, characteristic of his nationality, Pat replied, "It is toime to milk."

Ever since I heard Judge Quarton of Guernsey fame tell that story the first time—and I say the first time advisedly—I have wanted to repeat it because it carries a peculiar significance that is not to be ignored by individuals, communities, states or nations.

It is legend that there came a time in the history of Denmark when as a nation, poverty and seemingly insurmountable indebtedness stared her in the face—when the one great problem was that of restoring national solvency.

Then it was that Denmark decided it was time to milk, and from that day to this Denmark has advanced in prosperity until she ranks among the richest countries per capita and as the most noted producer of dairy products.

Such is the significance of Pat's reply, "It is toime to milk" as it applies to nations.

It is no secret that in the early days of Wisconsin wheat was grown continuously year after year until wheat would no longer grow profitably nor would any other farm crop.

Then it was that the question of what to do arose and the reply was "It is time to milk."

Recently, in an address to bankers, the head of the Federal Reserve Bank of the Northwest made the statement that in Wisconsin there was not one of the 990 banks delinquent and that they had sent more than \$50,000,000 into the Chicago district during the past year; this during a year when states that are practicing other forms of agriculture almost to the exclusion of dairying are clamoring for credit.

Such is the significance of Pat's reply, "It is toime to milk", as it applies to states.

In the September 15th issue of the Dairy Farmer appeared

an editorial telling of a community in North Dakota that is this year experiencing its sixth consecutive crop failure.

One crop failure, especially if it came this year, would suffice to discourage most sections, but not the stout-hearted North Dakota community because:

In the early days of crop failures when the inevitable question of what to do was propounded someone said "It is time to milk," and last year the average gross income from 17 farms in the crop failure district was \$2,325.83.

Strange as it may seem, these men, under the worst of farming conditions, are enjoying greater prosperity than their fellow farmers in sections of the state that have bumper farm crops.

Such is the significance of Pat's reply, "It is toime to milk," as it applies to communities.

John W. Newman, former Commissioner of Agriculture of Kentucky, has eight farms operated by tenants. During the war the price of tobacco was high and these tenants specialized to the extreme in growing the weed. Mr. Newman says they profited to the extent that each of them became worth from \$4.000 to \$5,000 and then a year ago, when the price of tobacco dropped, they lost all and began borrowing money of him to operate the farms.

After loaning them a total of \$3,000 Mr. Newman called them together and in his own words said, "not another cent will I loan you. I will place on each of your farms 10 cows, eight sows and 100 chickens and if you can't make money off the farms, you cangotoel".

In other words he told them, "It is time to milk."

Continuing, Mr. Newman said, "Since that time each of these tenants is coming to me with money instead of for money."

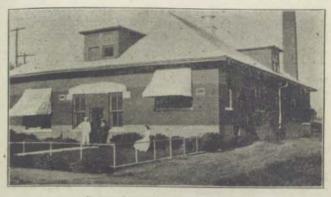
Such is the significance of Pat's reply, "It is toime to milk", as it applies to individuals.

From every section of the United States comes the cry that farm crops are selling below cost of production and yet the individual, the community, the state or the nation that is milking good cows. breeding up productive herds and caring for them well is prospering.

REPORT OF COMMISSIONER

Compared with prices of all other farm commodities and on the basis of cost of production, the prices of dairy products are higher today than they were at any time during the war when everybody admitted they were rich.

Further arguments are unnecessary to carry the conviction that of all times within the memory of the present generation the hour has arrived when to every man who farms there is much significance in Pat's reply, "It is toime to milk."



Farmers Co-operative Creamery, Hull. Iowa.

DEVELOPING YOUR HOME MARKET

We have always been of the opinion that there is nothing too good for Iowa and we believe that the majority of the people of this state want the best food products, which money can buy.

We are quite sure that the citizens of Iowa are getting very little of our best **Iowa Butter**, which is a condition we are sorry exists and we are inclined to place the responsibility in this matter entirely with the management of our Iowa creameries, as we are satisfied that there is a ready market within the state for all of our best butter, especially "State Brand" butter, at a premium over what the same product would sell for on the eastern markets.

The following article, by A. M. Hein, manager of the Farmers Co-operative Creamery, at Hull, Iowa, proves that our assertions are correct. Mr. Hein has given this subject a great deal of study and has demonstrated that it is possible to develop a home market for quality products, such as is found in our State Brand butter.

In developing local markets for your butter two important factors are necessary. First, quality and second, publicity.

You may get along very well when you have the quality, but I have found that to make double time, just spend a little

DAIRY AND FOOD DEPARTMENT

money advertising, telling the public what you have, and if it is different or better than any other brand tell them so, and be sure the goods you advertise will back you up. Then the rest will shape its way.

I want to first take up in a brief way five points that I consider the most important as to why local marketing is more profitable.

First—the Price. You all know money is what makes the things go, and so we are all after the price. Many of us cannot tell definitely what our butter is going to net us when we ship to the big markets, so you have this advantage in home marketing that you make the price. If you make it too low that is your lookout, but we will leave that to you.

Second—the Freight Transportation is and has been high, amounting approximately to 3c per pound of butter from our station; this is a nice little sum that would pay for advertising and distributing the butter in local markets.

Third—Deterioration in Transit. The results from this deterioration when butter is at its best benefits no one. The refrigerator car people or the railroad company will not say that your butter is too good to be piled in a moldy, musty car —no, it is to pile it in and take your medicine with the rest of the guys. If you have a poor quality butter the result will also be a heavy cut in price.

Fourth—Shrinkage. There is usually some loss on every tub of butter shipped. Some buttermakers may think because they allow onehalf pound to every tub that there is no shrinkage—the half pound was given in as good weight I suppose.

Fifth—Market Conditions. You no doubt are all aware of the fact that market conditions have much to do with the sale of your butter in the big markets. If the goods arrive on a sluggish market and prices are going down, the chances are the goods will not be sold until the bottom is reached. This again results in a heavy loss. In local marketing you will have the goods sold at a high price when you were paying the high price for fat, and when the drop comes you will be paying considerably less for fat, so the danger for losing is only slight.

Now then, why is it not more profitable to develop local

markets for your butter in this state? With a little advertising and getting right after it you can get good results.

We have found it considerably harder to get started in a big city with our butter than in smaller towns. Most large cities have one or more creameries where the small towns we furnish have no creamery.

In giving you our experience how we managed to get our butter started in a city something like 60,000 population where three big central plants are located. It has been whispered to me several times that it is a hard thing to get started in the big cities for several reasons. One of them was the service the city merchant would receive from their home creameries—they would not need to stock up for more than a day's supply, etc. The other main reason was that the majority were boosters for their home product.

These were the two factors we had to deal with before undertaking this proposition of placing our State Brand in Sioux City.

There was only one thing to do and that was to create a demand for our butter and this had to be done by advertising.

We decided to start a parcel post business and in this way get in touch with the consumers who were looking for a good quality of butter. We ran a large display ad twice a week with the State Butter mark in the daily papers. After a short time we cut the ad to a small one with a small cut of the butter-mark, and made the price for three days on each ad. We worked up quite a business in this way, not only in Sioux City. but from other towns in this state, and other states as well.

After a month or so we began to think about getting some one to take over this sale and work it through the best groceries. We managed to get in touch with a good man in the city that had been in the grocery business for some time, but had sold out his business, and he took over exclusive sale on this butter.

When this man went to call on the stores it was almost impossible to get the merchant to listen to his butter story, as they already handled three brands and some of them more. So nothing could be accomplished in this way. We made up our mind to put on another advertising campaign—one that would

54

DAIRY AND FOOD DEPARTMENT

take effect at once. This we did by hiring some women demonstrators who would make a house to house canvass taking small samples of butter about an inch square and one-fourth inch thick, or a little less, put up in a small waxed paper sack. These were given to the lady of the house with some literature pertaining to "State Brand Butter." We had four girls for a number of days to do this work. At the same time orders were taken for one or more pounds for a trial order to be delivered by the grocery with whom they did their trading. This worked out very well, and in the evening these orders were sorted out and when 10 or more pounds were sold through any of the stores our man would deliver this amount the next day to the grocery store for delivery. In this way we had the merchant where he could not very well refuse, because his customers demanded this butter from him. Some stores ran up to 30 pounds during the day's campaign. In this way we reached better than one hundred stores and meat markets. However, we have sifted them down to something like 50, as 25 per cent would not keep our State Brand in stock, because the price was too high and because we would not promise them that we would meet competition in price, etc., and the other 25 percent were slow pay.

Right after the week or so of our demonstrations from house to house we ran a 30 foot reel in five of the picture shows. Alternately we did this for thirteen weeks, and we believe that this is one of the cheapest ways of bringing some thing before the public that they will talk about. Our butter was very well advertised all over the city and I wish to say that we enjoyed a very large business during the past season from our adventures—we sold as high as 1,000 pounds some days in prints in Sioux City alone then we had considerable other local trade which amounted in all during the best month last summer to over 31,000 prints.

During our advertising campaign we emphasized strongly that there was no neutralizer used in the manufacture of this brand. The word neutralizer was used more or less in the daily papers at the time we started our advertising. People read about the neutralizer decision being postponed from time to time and the consuming public began to inquire about this new process that they never heard of before.

I remember the first time I went to see our ad in the movies. As it happened a couple was sitting ahead of me—I presume they were a married couple. When our State Brand appeared on the screen in that large circle, leaving ample space at the top for these words—THERE IS NO SUBSTITUTE. FOR GOOD BUTTER—. Then on the right of the trade-mark came flashing the words—THE STATE PROHIBITS THE USE OF A NEUTRALIZER IN THIS BRAND. Down a little farther it reads—TAKE ADVANTAGE OF THIS PRO-TECTION OFFERED. DEMAND IT OF YOUR GROC-ER. At the bottom the distributer's name appeared with his phone number.

Now about this couple which I mentioned amused me somewhat when the word "neutralizer" flashed on the screen the lady turned to her man inquiring: "What was meant by neutralizer?" He replied: "Some kind of dope to make it look natural". Not a bad guess, was it? I believe the word "neutralizer" was new to both of them. It is just a year ago next month that we started out with the parcel post business, and in these eleven months we are well satisfied with what we have accomplished, and had many more ideas worked out to use in connection with our campaign had we gotten warmed up with our competitors but as it was we have got along fine thus far.

Opportunities for working up a home market for quality butter are good most any where. You may have to figure out your own salvation how it's best to place it on the market so the public can get it.

But remember that quality and publicity with plenty of tact behind will do the business.

Try it and see for yourself.

DAIRY FARMING, THE MOST PERMANENT INDUSTRY

As a safe and permanent occupation, none of the common forms of farming compare with dairying. Still, many dairymen have regarded the future of the industry with doubt. Falling prices during the early months of the present year.

lead them to wonder and worry regarding their heavy investments in live stock, land, buildings and machinery. Let them consider the following seven reasons why dairying is the most permanent form of farming. We could give more and will gladly do so, if called upon, however, we rest assured that seven good reasons will more than remove the last vestige of doubt from the minds of most people.

First—Milk and milk products are absolutely essential to life, health and normal growth. This point is becoming better known year by year to our reading and reasoning public; as a consequence the consumption of milk and milk products is steadily increasing. So is the use of substitutes, you may say, and you would be right. War prices and highly commendable patriotism popularized the use of substitutes. But none of the so-called substitutes, no matter how extensively advertised, dare meet pure milk products in open battle. Why? Because milk products contain vitamines, and vitamines are absolutely essential to normal health and growth. They are not found in appreciable quantity in other animal oils and in vegetable oils, and it is these oils that form the base of all substitutes on the market.

Second—During the past five years our population has increased seven per cent; milk consumption has increased ten per cent in the same period. What do these indisputable facts promise for the future? The population of the United States is increasing rapidly and history will show that it has been on the steady increase for the past century. Immigration and the natural increase through births assure further growth. Education in child welfare and general health insists on milk for the growing child. Therefore we may expect to see milk consumption increase far more rapidly and markedly in the next generation than in the decade just ended. What could be a more promising guarantee for the future than an ever increasing and expanding market.

Third—Dairy products are a source of regular and reliable profit. The market for dairy products has never been controlled by a few; it never will be. Through co-operative creameries and cheese factories farmers can supply a staple. finished product, ready to be disposed of direct to the ultimate consumer if necessary. This in a sense makes possible the the elimination of the middleman, and has been used by farmers where it was found that the "split" in profits was going against them. Once a month, twice a month, or even every week or day in some cases, the dairyman receives payment for the work his cows have done for him—and cows don't work on an eight-hour day basis either. Thus the dairy farmer is enabled to pay cash for things he buys and is free to "stand from under" when hard times threaten.

Fourth-Dairying and diversified farming are one and the same. Diversified farming produces a variety of crops for market; a failure of any one or two does not mean bankruptcy for the farmer. The dairyman does not have "all his eggs in one basket." Contrast this condition with the Corn Belt where wealth is measured in terms of corn, hogs, and steers. This year has seen the "bottom drop out" of the market for the three things he produces-commodities he has always considered as legal tender. As a consequence there is no money in circulation, farmers are not able to meet their obligations, farm sales made a year ago at high prices are falling through, and banks are unable to assist farmers in making loans. In Wisconsin, primarily a dairy state, conditions are much better in spite of decreased prices. Banks are still able to take care of the needs of farmers, and farmers seem to be able to "scare up the cash" with which to meet their debts. Why? Because diversified farming with the timely aid of dairy dollars can meet and is successfully meeting the emergency.

Fifth—The dairy herd conserves and even increases soil fertility, assuring good yields of farm crops in future years. At the same time the herd provides a sure, prompt, and profitable outlet for grains and roughage grown on the farm. Land that supports good dairy herds becomes richer year by year whereas land devoted to raising grains and hay for market soon becomes sadly depleted unless carefully managed and unless commercial fertilizer is purchased. Every ton of corn sold off the farm, worth in normal times about \$20.00 takes with it \$6.50 worth of plant food; every ton of wheat worth \$35.00 takes \$17.00; every ton of butterfat worth about \$1,000.-00 takes only 49 cents worth of plant food! Meanwhile the herd

DAIRY AND FOOD DEPARTMENT

is returning many times this amount in fertility. It pays to market crops in the milk can. Keep these facts in mind when you haul away your next load of oats or hay.

Sixth-Our biggest and most successful dairymen, with years of practical experience to back up their statements, say, "The dairy crop is the only one which has never known a complete failure." They base this statement on a few simple facts. In the first place dairying is more quickly adjustable to new conditions and prices than any other kind of farming. We can easily see why. Field crops are marketed once a year, and the price is forced down-temporarily-because of the overload of any single crop on the market. The marketing period is not distributed. To purposely hold for higher prices means to wait for the money tied up in the crop. Not so with the dairyman, He markets his "crop" every day, or every few days at most, and is paid once or twice a month or oftener. His returns no doubt do vary in times such as the present when all lines of industry are being readjusted, but a few months of low prices do not condemn the industry. The reasoning farmer notes a drop of 15 to 25 percent in milk prices, then compares this to the drop of corn from \$1.50 per bushel to around 60 cents, and pork from 23 cents to 9 cents. He figures his average earnings for the last two years and is satisfied. He knows that no business is entirely free from ups and downs; he also knows that none are more highly favored than dairying in this respect.

Seventh—The dairy cow is a home builder. Farming, no matter how profitable, never reaches the position of dignity which is its heritage until the farm home becomes so attractive that it is the greatest pride of the entire family, something to be handed down from generation to generation. The growing boy or girl does not look forward with pleasure to the time when they will inherit a mortgage-ridden, impoverished ruin. They do thrill at the thought of a farm both fertile and fair, stocked with the blood left as the breeders' handiwork of father and grandfather. The dairy herd always has stood and always will stand as a symbol of permanence for the good farm, the real farm home, the farm from which the boys are not easily attracted to the job in the city nor the girls lured away to the office.

WORK OF THE NATIONAL DAIRY COUNCIL.

The National Dairy Council has been functioning under its present plan for a period of two years with considerable success and in consideration of financial support from the Dairy Industry is adequately prepared through contact with and co-operation from educational and welfare agencies, as well as commercial, to enter into the following agreement:

I. To promote a clearer understanding of the service of Dairy Products in the diet of the nation with consequent increases in consumption of those products and favorable market conditions by means of

A. Education work in the schools, colleges, and universities, access to which has been granted by authorities because this is an "Educational Organization." Its help has been sought by over 30,000 school teachers.

B. Educational, health, and welfare clubs and associations, such as Red Cross, Parent-Teachers, etc., have sought and secured publicity material, pamphlets, speakers, etc., from the National Dairy Council, because it is educational, which service will continue without question.

C. Conducting milk and Dairy Products campaigns where whole cities and communities join to emphasize the need of Dairy Products in the diet.

D. The Public Press, Billboards, Window Space, District. State and National Fairs and Conventions, and Commercial agencies, have been used where such service was warranted.

During the past year the National Dairy council has supplied over four million (4,000,000) pieces of literature to the consuming public, it has circulated three motion picture films, thirty seven picture show slides, four billboard posters, several mechanical devices which graphically demonstrate food values of Dairy Products at fairs and in window displays. The Council has supervised more than one hundred campaigns in cities and towns fostering increased use of Dairy Products, notable among these being Philadelphia, Cleveland, Minneapolis, St. Paul, Trenton, and Youngstown. It has also maintained booths at the National Educational Association Convention with 8,000 teachers attending and at the American Medical

DAIRY AND FOOD DEPARTMENT

Association Convention with 10,000 doctors present. These functions are increasing almost more rapidly than they can be cared for with the present force of workers—thirty-two in number.

The results of this type of work and stimulation of interest cannot be presented concretely. However, these facts are pertinent. During the seven months, March to September, Philadelphia milk sales were 6.65% greater than for the same period of 1920 in spite of a decrease in population. Detroit reported an increase of 20% over a preceding similar period as a result of a campaign. One milk distributor in a western city said. "My milk sales are 18% greater than in 1920, which I attribute entirely to the education work which has been done." Butter production has been 100,000,000 pounds larger during the first ten months of 1921 than for the same period of 1920 and smaller storage stocks prevailed at the close of the period in 1921. Most leading butter manufacturers state that the educational work of the Dairy Council has stimulated much of the consumption which has made the butter market favorable. The manufacture of margarines during the first nine months of 1921 decreased almost 50% as compared with 1920. And, all of this increase in consumption of Dairy Products has been maintained in the face of a most serious national business depression with decreased sales of practically all other foods.

II. The National Dairy Council agrees to scrutinize and combat such false advertising and publicity of butter substitutes as may come to its attention. It has already secured the withdrawal of large numbers of false billboards, newspaper and circular advertising, by complaint to the vigilance committee of the associated advertisers, Federal Trade Commission, Attorney General of the United States, and State Educational Institutions.

III. The National Dairy Council agrees to place its educational material and publicity in such channels as appear most serviceable but believe that to serve the butter industry best it should distribute most throughout the area of New England and North Atlantic States where more than 50% of the creamery butter is consumed and one-third of the entire population of the United States are located. IV. The National Dairy Council agrees to maintain receipts from the butter industry in a separate fund, expenditure of which shall be supervised by a committee of butter manufacturers, selected by the butter interests supporting the Council, in co-operation with the officers of the National Dairy Council. It is suggested for the approval of such committee that the fund be budgeted as follows:

- 40% Billboards and window posters;
- 30% Pamphlets, etc., for educational work;
- 20% Dairy Products Campaigns;
- 10% in general publicity and investigational work.

V. In consideration of your financial support the National Dairy Council will make report of receipts and disbursements with explanation at least semi-annually.

To do the most successful and far-reaching work a fund of \$150,000 seems advisable for butter publicity work as outlined under Division No. IV. To raise this amount it will be necessary to receive payments in the amount of 25 cents per thousand pounds of butter manufactured, or 30 cents per thousand pounds of fat handled, in creameries making a total of 600,000,-000 pounds of butter. Do not look upon this as a contribution, or as joining one more organization. The money you pay to sales agencies, advertising agencies, commission firms, transportation mediums, etc., is based upon volume. Here you are doing fundamental market development work which cannot be done individually. You are buying a service just as truly as any other one of your marketing agencies.

We are submitting this report of the work accomplished by the National Dairy Council for the reason that thousands of dairymen in this state are supporting this work, through their creameries and other marketing organizations and we believe that it will be of interest to everyone to know just how this work has been handled.

DAIRY AND FOOD DEPARTMENT

WORK OF IOWA STATE DAIRY ASSOCIATION (By J. P. Eves. State Dairy Expert.)

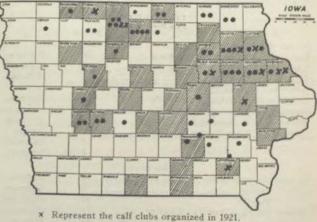
The demand made on the Iowa State Dairy Association, during the past year has been greatly increased in spite of the financial depression. This condition, however, is only to be expected since farmers always appreciate the possibilities of dairying during the period of hard times.

The past year has shown a very decided trend toward dairying. This holds true in practically every county in Iowa. A comparison of the financial conditions in various counties of Iowa, as well as the comparison between states, has proven conclusively that the dairy sections are weathering the times in a very satisfactory manner as compared with practically every other agricultural section. This fact has been the cause of an almost unsuppliable demand for dairy cows. Bankers who would not ordinarily loan money for any purpose have been very free in the loaning of money to men to buy cows. It is a very noticeable fact in Iowa that this demand is coming from sections where the grade calf clubs, previously organized by the Dairy Association, have been in existence. These clubs brought, in many instances, the original dairy cattle into the communities. The farmers have finally realized the value of special purpose dairy cattle on the Iowa farm. I can cite one community where a grade club was organized in 1919. During the fall of 1921 five car loads of grade dairy cows have been purchased and distributed in this same community.

It has been the attitude of the Dairy Association, however, that many farmers are not to be encouraged to turn to dairying. With a percentage of the farmers, it is only a temporary idea with the one purpose of merely supplying a satisfactory temporary market for their grain and hay and to help carry them over the hard time period. We have contended that it is wise to encourage only those men who are interested in going into dairying as a permanent enterprise.

In comparing one year's report with another, we necessarily find that there is a constant changing of the line of work followed. The activities of the Dairy Association must of necessity respond to the demand placed on it and the change of financial conditions has, of course, made a greater change than one would expect between one year and another.

This map will illustrate clearly the counties in which work was done by Iowa State Dairy Association Representatives during 1922.



. Represent the calf clubs organized in previous years.

DAIRY CALF CLUB WORK

The boys' and girls' dairy calf club work, in spite of the fact that most calf clubs have suffered a decrease during the past year, gained in popularity. The Dairy Association is cooperating with and receiving the hearty co-operation of the Club and Dairy Extension Divisions of the Iowa State College in this work.

1921 was the banner year from the standpoint of the number of pure bred clubs organized and the number of members owning calves in these clubs. The comparison of three years' work in which the clubs have been organized shows the following:

1919	Four	Pure	Bred	Clubs	Organized	90	Members.	
1920	Six	Pure	Bred	Clubs	Organized	81	Members.	
1921	Eight	Pure	Bred	Clubs	Organized	123	Members.	

DAIRY AND FOOD DEPARTMENT

With but very few exceptions, the bankers in all localities are willing to finance the dairy clubs in spite of close money because they realize the importance of developing the dairy industry. To my knowledge, only two clubs were held back this year because of lack of finances.

1921 CLUBS Pure Bred Calves.

	No. of Calves	Breed
Dubuque Co. Holstein Brdrs. Ass'n	24	Holsteins
Linn Co. Holstein Brdrs. Ass'n	25	Holsteins
Fayette Co. Farm Bureau	5	Holsteins
Jefferson Co. Farm Bureau	8	Jerseys
Delaware Co. Holstein Brdrs. Ass'n	5	Holsteins
Dubuque Co. Guernsey Brdrs. Ass'n	25	Guernseys
Blackhawk Co. Holstein Brdrs. Ass'n	13	Holsteins
Clayton Co. Farm Bureau	10	Jerseys
	4	Guernseys
	4	Jerseys
Grade Calves		
Kossuth Farm Bureau	7	Holsteins
Fenton	2	Guernseys
Titonka	10	Guernseys
Emmet Co. Farm Bureau-Ringsted	11	Guernseys
	14	Holsteins

It has been considered advisable to make some change in the distribution of time spent on club work and, consequently, more time is being spent on the follow-up work of the clubs already organized and less time given to the matter of organizing new clubs. It has proven that the greatest success is not possible unless a very close personal touch is maintained with the club member. This takes time, necessitates a number of visits to the club during the year, but has been the means of establishing the clubs on a good deal firmer and more successful basis.

The number of clubs organized in which grade calves were distributed has, in accordance with this policy, been limited to those counties in which the Farm Bureau was willing to get behind the club in the same manner in which they would follow up a pure bred club. This has, of course, limited the number of clubs considerably but we believe, in the long run, it will be the more effective. The grade club has proven to be a mighty effective means of introducing good productive blood around cooperative creameries where they are often sadly in need of a better class of cows. In every instance where a grade club has been organized, it has been a forerunner to the introduction of grade cows and pure bred sires. In a number of localities the demand for a pure bred club has resulted from the previous organization of a grade club.

All grade clubs have been organized in the past with the purchase of "baby calves", by which I mean young calves three to five weeks old which are shipped in by express. Great care has been paid in the purchase of these calves. During 1921 all calves were purchased from Waukesha County, Wisconsin, through the Breed Associations. The present demand for cattle has been the means of advocating, in many instances, the organization of clubs with older bred heifers, believing that this would bring a much quicker return. We have found that the bankers have been more willing to finance such a club because of the quicker returns possible.

An added feature of the three period for clubs is just developing because the oldest pure bred heifers have just freshened during the past year. The members are being required to keep a record of the milk and butterfat produced during the year and some very creditable records are being secured. In Fayette County, where liberal prizes were offered by a local banker, an interesting competition developed. Two prizes of \$50.00 each to be given to the members, making the highest seven day record, provided the incentive. Bob Stewart, aged ten years, won the prize of \$50.00 on the heifer making her record as a senior two year old. This club heifer, Miss Diana Butterboy Beets, produced in seven days 21 pounds of butter from 405 pounds of milk. Mike Stewart, his older brother, with his club heifer, Miss Eliza Highland Johanna 3rd, won the \$50.00 prize for the heifer freshening, as a junior two year old with a production of 17.2 pounds of butter from 326 pounds of milk. Bob Stewart's heifer has been continued on her test by his father and will complete a record of very close to 600 pounds of butter.

The success of a calf club can be pretty well decided by the public opinion of the people connected with it. It has been

66

DAIRY AND FOOD DEPARTMENT

a source of satisfaction during the past year to see the greatest interest in clubs exist in those counties where the most work had been done previously. We now have a number of counties in which at least four clubs had been organized. Fayette County has organized three consecutive pure bred clubs. Dubuque County first organized a pure bred club in 1920 and came back strong in 1921 by the organizing of two more with a total enrollment of 58 members. Kossuth and Buchanan Counties are continuing their clubs that have all been organized on the three year basis. The grade calf club has proven very effective in Kossuth County around the creameries and has been a decided advantage in stimulating the interest in dairying.

EXCHANGE BUREAU

At all times an effort is made to place the buyer and seller of dairy cattle in touch with each other. Assistance is always offered to those parties who are buying their initial dairy cattle and wish experienced help. The past year has shown the greatest results of these efforts. A large number of cows and heifers have been purchased as well as a number of pure bred sires secured to place at the head of herds that have not previously used registered dairy bulls. It is a conservative estimate that at least \$25,000.00 worth of dairy cattle have been purchased during the past year through the medium of the State Dairy Association. At least fifteen pure bred sires have been purchased through the efforts of the Association's representatives.

BREEDERS' ASSOCIATIONS

A greater amount of time has been given to assisting the state and county dairy breed associations during the past year. It is the belief that through such organizations this office can do more effective work in improving dairy conditions within the state and within the individual county. Fifteen different breeders' association meetings were attended during 1921. Of this number, nine definite organizations are now in existence. It is planned that such organizations should adopt some definite piece of development work to improve and develop the dairy industry.

CLUB EXHIBITS AND JUDGING CONTESTS

1921 witnessed the first exhibit of pure bred dairy club heifers at the Iowa State Fair and Dairy Cattle Congress. The start was not a large one but it bids fair to develop into one of the more interesting and educational exhibits of club work. In addition to these, two larger exhibits of all counties in which pure bred dairy calf club work is being followed had their individual county exhibits.

Fayette County can be cited as having one of the most successful county exhibits. The County Fair at West Union and the Farm Bureau are co-operating in the maintenance of a club camp. All club members are required to show their calves at the County Fair and the camp is maintained so as to provide for the members a comfortable, as well as a safe place to sleep. A competent cook and care-taker, to provide meals and look after the members in a general way, is secured. This club is proving one of the big features in popularizing the work in that county.

Considerable stress has been placed on the judging demonstrations and judging contests conducted among the different club members. This work has developed a great deal of interest and friendly competition- Judging demonstrations and assistance in training was given to five different county teams previous to the State Fair. In addition, time and assistance was given in training the three calf club boys selected to represent Iowa in the Dairy Judging Contest at the National Dairy Show.

OTHER PROJECTS

There are always calls coming on various projects that could hardly be listed under the major lines adopted by the Association. These requests are varied and rather out of line with the usual work of the Association, but assistance is given whenever possible. We have had the co-operation of the State Dairy Council, The Extension Department of the Iowa State College and the Dairy and Food Commission at all times. Assistance has been given these organizations whenever possible.

PROJECTS FOR 1922

The plans for 1922 call for the pushing of the work much the same as during the past year.

69

DAIRY AND FOOD DEPARTMENT

The calf club work will be featured because I predict a great increase in the numbers and in profitable results during the coming year. Many counties are being urged by the bankers to take up this line of work. The interest of the farmers themselves and of the boys and girls is also rapidly turning toward the dairy calf club work.

The pure bred sire work will be one of the features. It is hoped that some form of pure bred sire campaign will be mapped out that will be effective in Iowa. It is certainly an opportune time to push this line of work because of the comparatively reasonable price at which good pure bred dairy sires can be purchased.

Assistance to state and county breed associations will be given additional attention. It is the belief of the Dairy Association that these different organizations should be fostered and given all possible co-operation and assistance.

The Exchange Bureau will be continued and an effort made to make it more effective.

These many lines, in addition to the general demand, always coming during the year will give the representative of the Iowa State Dairy Association a full schedule for 1922.

The work of the Laboratory is shown in the following table:

Cream and Milk	1978	Samples
Ice Cream	141	Samples
Miscellaneous Foods	65	Samples
Paints and Oils	19	Samples
Butter	194	Samples
For Attorney General and		
County Attorneys	243	Samples
Insecticides	43	Samples
Board of Control	10	Samples
Seeds	35	Samples
Stock Foods	180	Samples
Pharmacy Commission	2	Samples
Bacteriological	140	Samples
TOTAL	3050	Samples

The amount of work done in the Laboratory this year is gratifying, being a material increase over last year and represents the work of two chemists with the exception of about two months of work by a third chemist, employed on half time.

CITY MILK LICENSES.

Table showing the number of milk licenses issued to city milk dealers for each year from 1911 to 1921. In each case the year ends on July 4th.

Year 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 No. 1,310 1.908 2,088 2,189 2,365 2,729 2,858 2,286 2,718 3,061 3,455

LOCAL STATE MILK INSPECTORS OF THE STATE OF IOWA

Cities	Inspectors.
Boone	.W. H. McLain, M. D.
Burlington	.W. F. Schoeder
Cedar Rapids	
Clinton	.J. H. Spence
Council Bluffs	.B. A. Moore
Davenport	.A. B. Haskins, D. V. S.
Des Moines	.W. B. Barney, Jr.
Dubuque	.J. N. Graham, D. V. S.
Ft. Dodge	
Iowa City	
Keokuk	
Marshalltown	
Mason City	
Muscatine	
Ottumwa	
Sioux City	
Waterloo	.P. A. Hodge

SUMMARY

During the year ending November 1, 1921, our inspectors have inspected a total of 23,476 establishments, as follows:

Grocery	9,025
Meat Market	4,062
Bakery	1,024
Slaughter House	146
Restaurant	1,325
Coal Dealer	23
Elevator	9
Feed Store	80
Ice Cream Factory	538
Creamery	1,052
Dairymen	457
Farm Dairy	347

DAIRY AND FOOD DEPARTMENT

Confectionery						 				+	.,	1.2	+									i.	,				ŝ	÷	655
Wholesale Gro	oce	r					•.						*				÷			•	.,		•						12
Seed Dealer																													1
Bottling Work	8		÷	-					4	æ	ς,	1		20	4	ee.			-	÷	e)		•		0		4		31
Cream Station			2		4	1		s,					÷	1						x	6			4			•	•	2,984
Produce						1.	5	ę,	ŝ			2	4							÷	1	1	÷	-				÷	1,555
Miscellaneous							4		. ,		•			×.		1	÷			•		1				1		-	. 149
TOTAL .							.,		-								4	•			t.					, ,	.,	-	23,476

DAIRY AND FOOD COMMISSION FEES RECEIVED YEAR ENDING OCTOBER 31, 1921

Inspection Fee Tags\$	15,988.50
Seed Analyses Fees	12.00
Feeding Stuffs Analyses Fees	79.00
Stock Food Licenses	2,050.00
Egg Licenses	7,188.00
Babcock Test Licenses	8,507.50
Scale Tag Licenses	6,000.00
Scale Inspection Fees	12,710.98
Sanitary Law Licenses	16,908.00
Milk Dealers Licenses	4,713.00
Gasoline Pump & Meter Licenses	13,296.00
Cold Storage Licenses	625.00
Commercial Fertilizer Licenses	480.00

TOTAL \$ 88,557.98

Fees collected by this Department, as listed above, are not used by the Department but are turned over to the State Treasurer as soon as received.

REPORT OF COMMISSIONER

DAIRY AND FOOD COMMISSION EXPENSES YEAR ENDING OCTOBER 31, 1921

NAME	SALARY	EXPENSE	TOTAL
W. B. Barney	\$ 3,300.00	\$ 241.86	\$ 3,541.86
W. A. Gordon	108.33	19.89	128.22
M. E. McMurray	2,208.25	214.10	2,422.35
E. L. Redfern	2,700.00	93.32	2.793.32
B. O. Brownlee	2,100.00	1.460.07	8,560.07
c. A. Clarke	2,100.00	1,135.88	3,235,88
H. E. Forrester	2,100.00	1,456.94	8,556,94
L E. Ritter	1,984.87	1,156.69	3,141.56
W. Stephenson	2,100.00	1,190,42	3,290,42
O. P. Thompson	1,750.00	1,138,85	2,888.85
F. C. Gilmore	1,708.28	1.272.62	2,980,90
E. W. Neasham	1.787.47	1.278.38	3,065,85
F. L. Odell	1,583,31	868.88	2,452.19
toy Scoles	1,888.32	1.285.64	8,118,96
A. Countryman	1,953.18	698.56	2,851.74
C. C. House	1,350.00	1,072.87	2,422,87
*M. E. Flynn	350.00	89.59	439,59
M. W. Knapp	750.00	330.49	
W. Milnes.	2,100.00	997.59	1,080.49
M. Morrow	1,945.79		3,097.59
Ottosen	2,100.00	1,018.18 1.256.40	2,963.92
I. A. Stearns.	2.026.58		3,356.40
		885.80	2,912,38
O. Van De Bogart	2,100.00	698.94	2,708.94
8. Bogle	2,400.00	48.81	2,443.81
B. Briggs	2,100.00	1,527.72	3,627.72
J. J. Nolan	2,100.00	1,888.28	3,933.28
V. G. Jordan	2,100.00	7.86	2,107.86
. W. Day	2,000.00		2,000.00
V. Barker	1,500.00		1,500.00
Minnie Benson	900.00	TATAL .	900.00
Blanche Lindblom	362.28		362.28
faurine Mack	1,200.00	- Palater	1,200.06
G. O'Connell	1,200.00		1,200.00
W. H. Davis	127.00	(a accesso	127.00
Fannie Conaway	373.84		373.84
R. B. Edmunds	280.80		380.00
Vera Thompson	18.47		18.47
R. T. Lustig	264.00		264.00
J. W. Lytton	1,073.10		1,073.10
aboratory Expense		611.91	611.91
Veights and Measures Expense		2,182.49	2,182,49
lise. Office Expense		2,031.64	2,031.64
lilk Agents' Expense		635.11	635.11
flik Agents' Fees	Sec. 1	6,630.00	6,630.00
nspection Fee Tags		2,465.00	-2,465.00
elephone		51.68	51.68
elegraph		26.61	26.61
Electricity		16.51	16.51
Express and Drayage		368.43	368.43
TOTALS	\$60,133.87	\$38,293,96	\$98,427.83

*Employed less than a year. **Deceased.

LAWS ENFORCED BY DAIRY AND FOOD COMMISSIONER

DAIRY LAW

The object of the dairy law is to insure the manufacture of clean, wholesome dairy products of uniform quality and possessing high nutritive value, and to encourage and promote all branches of the dairy industry, thereby securing for Iowa farmers a steady and fair market for one of Iowa's most valuable agricultural products.

FUNCTIONS OF ASSISTANT COMMISSIONERS AND DAIRY INSPECTORS

Inspection and educational work relative to sanitary conditions of dairy farms, cream buying stations, creameries, condensed milk factories, cheese factories, ice cream factories.

EDUCATIONAL WORK AT CREAMERIES

Instructs buttermakers in new methods of handling raw materials and manufacture of butter.

Confers with and addresses creamery boards and assists in moulding policies of the creameries.

Assists in the building of new and remodeling of old creameries, and installation of new equipment.

Periodically checks moisture content of the butter being made. Periodically checks salt content of the butter being made.

Studies methods of manufacture at the creameries for the purpose of increasing the efficiency of the plant.

Checks cost of production and costs of marketing.

Advises creamery as to the best sources of equipment and materials.

Assists in securing frequent and regular transportation facilities. Assists in securing satisfactory markets in eastern cities for butter. Tests creamery scales, both test scale and platform scales, to insure accuracy and fair dealing.

Schools operators in conducting Babcock test.

Holds examinations to determine competency of candidates to hold license to perform Babcock test.

Checks and controls production of navy butter.

REPORT OF COMMISSIONER

Checks and controls production of Iowa trade-marked butter. Assists in the organization of cow-test associations and calf clubs. Assists in educational work tending to promote greater and more economical production of milk and cream.

INSPECTION WORK IN THE FIELD

Inspects stocks of butter and butter substitutes at warehouses, stores, bakeries and restaurants to see that illegal butter and illegal butter substitutes are not carried on stock or offered for sale.

Investigates and conducts cases relative to testing of milk and cream by unlicensed Babcock operators.

Investigates complaints relative to unlicensed milk plants and milk depots.

Investigates complaints relative to false reading of Babcock test and other unfair practices.

Investigates complaints relative to the application of the antidiscrimination law as affecting the purchase of butter fat.

FUNCTION OF THE LOCAL MILK INSPECTORS

In charge of local milk inspection work under supervision of State Milk Inspector.

Inspects dairy farms supplying market milk to his district.

Inspects conditions, scores and keeps records as to sanitary conditions of dairies, milk plants and milk depots.

Periodically tests percentage of fat and solids in milk sold in his territory.

Periodically secures and forwards samples to the department laboratory for scoring and bacteriological analysis.

Investigates complaints as to quality of milk delivered and relative to violations of the laws pertaining to production and sale of milk in his territory.

FOOD LAW

The object of the food law is to prevent the manufacture and sale of harmful, deleterious and adulterated foods, or foods which are sold under false representation as to their quality or value.

FUNCTION OF FOOD INSPECTORS UNDER FOOD LAW

Inspect Iowa establishments where foods are manufactured to see that no harmful or fraudulent adulterant enters their composition.

Inspects conditions under which foods are stored, transported and sold to see that adulteration is not practiced.

Surveys and forwards to laboratory samples of foods which he suspects or concerning which he receives complaint as to quality, adulteration or short weight.

Inspects retail establishments to see that no illegal foodstuffs are carried in stock.

Inspects quality of eggs, poultry and other farm produce sold to buyers and handled through trade channels to see that these products are not spoiled or in a condition which would lead to their being spoiled before reaching the consumer.

SANITARY LAW

The object of the sanitary law is to insure cleanliness in the manufacture, distribution and sale of foods.

FUNCTIONS OF INSPECTORS UNDER SANITARY LAW

Determine sanitary conditions in establishments where foods are manufactured, prepared, stored and sold.

Sees that raw materials are in sound condition and that decayed and other unwholesome materials are kept out of food products.

Sees that no diseased persons are employed in establishments where foods are manufactured or sold.

Sees that foods are properly protected from dust, dirt, foul odors, flies, rodents and other contaminating agencies.

Sees that restaurants, hotels and other similar establishments maintain proper toilet and washroon facilities in order that employes can keep clean.

SEED LAW

The object of this law is to prevent the sale of undesirable varieties of seeds, seeds of low germination, dirty seeds, seeds containing excessive amounts of weed seeds, and seeds which are short in weight.

FUNCTION OF INSPECTORS

Inspects seed houses to see that seeds are properly cleaned and stored.

Traces origin of seeds to see that undesirable and too slow maturing varieties are not imported.

Sees that packages of seeds are full weight.

Investigates complaints relative to fradulent dealing in seeds.

Samples stocks of seeds and sends samples to laboratory for analysis.

WEIGHTS AND MEASURE LAW

The object of the Weights and Measure Law is to secure for all the true weight or measure of the commodity sold or purchased.

REPORT OF COMMISSIONER

FUNCTION OF WEIGHT AND MEASURE INSPECTORS

Inspects and tests accuracy of all weights, measures and scales used in the purchase and sale of articles of commerce.

Checks weights and measures of articles bought and sold by weight or measure to see that proper weights and measures have been given.

Inspects heavy wagon, elevator and mine scales to see that they are properly installed and kept adjusted.

Investigates complaints relative to false weights and measures and other violations of the weights and measure law.

CONCENTRATED COMMERCIAL FEEDING STUFFS LAW

The object of this law is to secure fair dealing in the sale of commercial feeds.

FUNCTION OF INSPECTORS

Examine stocks of foods to see that they are properly labeled as to quality, etc., and to forward samples to laboratory for analysis and comparison of feeding value.

Inspects stocks of feeds to see that packages bear tax tags.

Other laws enforced by this department are: Paint and Linseed Oil Law

Egg Law.

Turpentine Law.

Cold Storage Law.

Commercial Fertilizer Law.

Calcium Carbide Law.

Insecticide and Fungicide Law.

The duties of inspectors under these laws are similar to their duties under the laws in which duties are set forth in detail.

CREAMERY STATISTICS OF IOWA

SHOWING POUNDS OF MILK AND CREAM RECEIVED, POUNDS OF BUTTER MADE AND DISPOSITION OF SAME, SO FAR AS REPORTED.

COUNTY	Number of Creameries reported	Pounds of Milk Received	Pounds of Cream Received	Pounds of Butte Manufactured	Pounds sold to Patroos	Pounds Sold in Jows	Pounds Outside of Iowa
Adsir	2	49,911	752,023 180,000	284,483 64,800	20,998	86,589 20,000	176,894
Adams	1 2	Xeasane.	5,253,345	1,789,716	62,804	146,854	30,000 1,607,000
Арралове	1	216,327	57,384 2,555,721	19,514 363,518	433	19,091 46,361	294,275
Audubon Benton	53	34,029 108,000	472,671	217,674	3,150	177,550	294,278 92,974
Benton Blackhawk	9	5,205,290	2,825,950	1,797,454	79,435	960,298	718,518
Boone Breaner	23	47,383,070	119,680	115,074 2,631,421	6,007 246,175	70,532 268,750	38,535 2,157,973
Buchanan	7	8,545,108	1,696,346 1,697,347	1,650,924	83,621	649,884	919,869
Buena Vista Butler	3	312,539 5,095,690	613,152 5,855,300	214,581 1,523,457	16,662 83,362	78,729 189,763	124,190
Calhoun	4	93,733	324,715	295,436	28,734	110,545	136,325
Carroll.	8	381,603	2,613,320	1,125,598 874,601	11,636	632,300 44,220	481,941
Com. Cedar.	6		2,572,043	1,000,913	39,900	376,004	830,469 585,008
Cerro Gordo	9	2,804,041	8,085,672 13,139	2,547,893	63,770	349,044	2,135,079
Cherokee.	1 9	3,270,473	6.053.954	3,754 1,918,802	190,850	3,754 37,462	1.701.825
Clay	5	310,000	510,999	177,045	14,525	31,552	135,340
Clayton	15	14,595,290 16,304	6,965,161 1,305,080	3,342,728 2,210,487	160,663 69,764	255,009 154,388	2,951,140 1,986,345
Clinton Crawford	1	213,670	1,858,503	780,896	3,140	13,882	763,874
Dallas Delaware	13	5,562,119	4,241,265	77,522 2,098,831	3,000 144,173	44,122 150,032	30,400 1,590,381
Des Moines	2	87,315	4,941,000	\$51,771	697	529,684	21,390
Dickinson	15	8,378,890	8,269,693	581,543	23,907	119,830	437,806
Dubuque	15	8,378,890	4,665,455 977,228	5,607,850 291,415	85,211 28,577	899,193 35,296	4,512,661 227,552
Favette	18	21,192,912	6.575,569	2,901,471	26,138	242,989	3,457,657
Floyd. Franklin.	47	144,203 64,289	1,997,788	639,237 964,725	38,600 59,618	196,736 339,814	405,901 365,226
CPORDO	1	158,290	152,251	59,981		50,981	
Grundy	34	436,849 52,228	593,379 924,972	400,685	28,668	2,013 230,170	369,985 104,003
Hamilton	5	676,159	306,507	194,875	22,069	48,009	124,797
Haneock	10	29,384 361,254	2,934,476 2,957,797	918,857 2,053,115	44,941	121,640 351,504	752,547
Bardis	10	801,258	2,951,191	2,003,119 29,000	82,412 29,000	351,599	549,674
Henry. Howard Humboldt	9		5,429,610	1,538,683	38,934	30,341	898,353
Iowa	4	431,728 151,152	1,220,014 222,276	422,788 104,835	18,841 4,504	133,333 92,022	231,221 8,342
Jackson	9	249,744	3,685,672	1,370,435	36,921	324,244	969,472
Jasper. Johnson	12		200,400	73,730 377,049	1,323	72,407 110,221	267,828
Jones	6	140,174	6,345,433	1,946,284	130,634	175,755	1,540,328
Keekuk Kemuth	12	6,000 871,485	468,006 4,221,706	185,424	121.122	159,423	185,424 882,792
Lee	2	071,100	248,659	1,881,040	and the second	255,982	1,574,517
Linn	6		3,889,934	1,683,138 189,056	75,655	390,604 189,056	1,233,252
Lucas. Lyon	3	********	662,343	534,528	12.632	8,460	208,447
Mahaska	4	963,652	185,855	233,503	1 4,400	183,376	17,063
Marshall	1 4	982,689	1,617,925	124,000 679,590	28,490	40,000 235,332	84,000 415,768
Mills. Mitchell	2		195,790	165,569	2,500	92,420	70,649
Monroe	7	325,182 108,478	10,380,544 210,000	1,512,200 50,400	104,934	70,363 50,400	1,580,835
Montgomery	2	138,678	107,685	260,996	191911111	176,314	84,672
Musestine O'Brisp	1	33,351 330,004	493,557 1,779,606	156,695 650,307	8,340 49,404	99,605 204,533	48,740 396,371
Osceola	2	143,445	490,392	162,621	37,579	15,008	110.047

REPORT OF COMMISSIONER

COUNTY	Number of Creameries reported	Pounds of Milk Received	Pounds of Cream Received	Pounds of Butter Manufactured	Pounds sold to Patrons	Pounds Sold in Lows	Founds Sold Outside of Jown
Page Pale Atto. Plymouth. Poeshontas. Polk tamie. Poeshontas. Soot . Sale Soot . Sale Sale Soot . Sale Soot . Sale Soot . Sale Soot . Sale Soot . Sale	17124221231774131081982483	190,253 740,304 20,000 30,0000 30,0000 30,0000 30,0000 30,0000 30,0000 30,00000000	2,400,362 53,520 500,436 6,134,600 131,234 884,057 406,001 1,724,505 885,985 4,605,163 5,660,908 2,075,642 2,075,642 2,775,813 5,860,908 1,5380 2,837,560 2,155,568 2,155,568 3,1515,088 3,160,585	906.371 810.541 812.541 17.351 190.851 4.782.407 1.286,980 120.347 120.347 120.347 120.347 120.347 120.450 10.450 10.450 10.043 10.0438 11.200.413 135.574 1.300.413 135.574 1.300.413 135.574 1.300.413 1.355.574 1.355.	77,540 70,017 19,906 4,671 4,886 144,212 144,212 144,212 144,212 144,212 144,212 144,212 144,212 144,200 16,895 61,317 14,000 916,008 16,078	30,000 277,297 17,381 1290,084 2287,641 3323,216 1365,714 24,641 275,505 2867,574 74,575 25,685 218,646 233,749 61,991 44,000 456,675 99,201 166,668 1,112,657 99,201	2,080,000
Torat atimated on ne- count of Cream- eries changed hands. Reports unobtainable Totat	414	152,919,481	212,937,945	98,526,996 213,423 98,740,419	3,369,595	19,257,688	75,962,956

CREAMERY LIST

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Adair County	Adair Greenfield	D. J. Condon W. A. Foster	Adair Greenfield	J. R. Ryan R. Reynolds	Adair Greenfield
Adams County-	Prescott	Chris Lundhigh	Prescott	C. Lundhigh	Prescott
Allamakee County— rtic Spring Creamery Ass'n	Spring Grove, Minn Lansing Waterville. Waukon Waukon New Albin	F. E. Kerndt L. H. Gunderson Tollef Johnson Henry Selbert R. G. May	Waterville Waukon Waukon New Aibin	Vern Sires. J. V. Johnson A. H. Hansmeler. W. P. Muth E. S. Rice	Church Waterville , Waukon Waukon New Albin
Appanoose County- tckler Creamery Co	Centerville	O. M. Strickler.	Centerville	F. T. Strickler	Centerville
Audubon County— dubon Creamery Co. dubon Township Creamery Ass'n c ystal Spring Creamery dira Creamery Co	Exira Kimballton Exira	L. P. Nelson Peter Nelson C. B. Peterson	Exira. Kimballton Exira	L. P. Nelson Peter Nelsen C. B. Peterson	Exira Kimballton Exira
Benton County	Newhall	Wm. Gardeman	Newhall	Wm. Cardeman	Belle Plaine Newhall Vinton
Blackhawk County— enson Dairy Co	Cedar Falls Waterloo Donver La Porte City	C. E. Jenson J. H. Brandes Wm. Meler C. A. Fosse	Cedar Falls Waterloo	Gao. Holm L. S. Johnson. Wm. Meler. W. A. Harvey.	Cedar Falls Waterloo Denver R. 1 La Porte City

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
aount Vernon Creamery Coe Drange Creamery	Waterloo.			R. W. Chadwick	Cedar Falls R. 1 Waterioo R. 1 Janesville
Boone County- Peerless Ice Cream & Butter Co Rosendale Co-op. Creamery Co	Boone Story City		Boone. Story City R 4		Boone Story City R. 4
Bremer County— Ireaina Creamery Co. C Bremer Creamery Co. C Bremer Creamery Co. C Convert Creamery Co. C Trad MaxHeld Creamery Co. C Traderika Creamery Co. C Greamery Co. C Traderika Creamery Co. C Greamery Co. C Citale Creamery Co. C Citale Creamery Co. C Cititel Creamery Co. C Attle Valley Creamery Co. C Attle Greamery Co. C Cititel Creamery Co. C Cotter Siding Creamery Co. C E Olde Creamery Co. C Cotter Siding Creamery Co. C Eadlph Creamery Co. C Editid Creamery Co. C Indifield Creamery Co. C Eadlph Creamery Co. C Edity Creamery Co. C Image Creamery Co. C Editid Creamery Co. C	Bremer Summer Denver Summer Denver Frederika Tripoli Fairbank Janesville Readlyn Readlyn Summer Pialnfield Tripoli Readlyn Tripoli Summer	F. A. Boltz. H. Bell. W. J. Moohling. G. Rockdaschol. H. C. Griese. Leigh Alcock. B. C. Fink. J. J. Kane. H. O. Squires. Henry Otto. J. Strottsmann Chas. Kruger. E. B. Olds. J. H. Brandes. W. H. Barry.	Waverly R 5 Waverly R 2. Summer. Waverly R. 5 Summer. Denver. Tripoli R 1. Fairbank. Janesville. Readlyn R 1. Summer R 7 Summer R 7 Summer R 7 Summer. Waterloo. Tripoli R 2. Readlyn. Tripol. Summer. Summer.	R. J. Allenstein A. L. Nichols Otto Buchrer C. A. Day 	Waverly R. 5 Bremer Summer Denver Summer Denver Frideutka Frideutka Falrbank Janeeville Palrbank Readlyn R. 1 Summer Plainfield Tripoli R. 2 Beadlyn Waverly Summer Summer
Pripoli Creamery Co	Tripoli. Waverly	B. B. Bennett J. D. Monaghan Carl Okerhen		H. H. Harms. C. L. Gamm Ernest Hasse	Waverly
Buchanan County— apper Creamery. I airbank Farmers Creamery Co. c laileton Farmers Creamery Co. c eup Creamery Co. c amont Creamery Aus'n	Fairbank Hazleton Jesup	A. J. Langley C. E. Riede D. E. Rogers	Hazleton	C. E. Brant M. McDowall Earl Morris	Brandon Fairbank Hazieton Jesup Lamont

8

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary of Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
apsie valley Creamery	winthrop	C. V. Rosenberger J. C. Guthrie	tin dom on dom on	Roy Stewart Geo. Jensen	Independence Winthrop
Buena Vista County	Alta Newell Storm Lake	L. H. Hatch. J. C. Aroe. McCreery & Crowley	Alta Neweli Storm Lake	V. Kielsohm N. C. Olson McCreery & Crowley	Alta Newell Storm Lake
Hutler County— hion Creamery Co	Clarksville Parkersburg. Dumont Allison Preené Coster New Hartford	R. Meyer. H. W. Stine C. J. Rohds. E. M. Reed. Wmt. Allan J. Jacobsen L. C. Hahn E. F. Perrin. D. C. Austin	Clarksville. Parkersburg Dumont. Allison Greene.	E. E. Brooks. M. A. Jones. Arthur Brokaw Raymond Reed. B. D. Sweet. J. Jacobsen. Robert Wagner. P. W. Petersen.	Dumont Allison Greene Shell Rock New Hartford Shell Rock
Calhoun County- Baird & Co					
Carroll County- arroll Creamery Co	i Breda. I Halbur I Coon Rapids	A. J. Polking M. J. Wagner Jons Jensen J. A. Bruck M. Friedman	Dedham Breda Halbur Coon Rapids Manning Carroll R. 4	C. C. Roberts H. Lauridren. J. E. DuCharme. M. J. Wagner. C. Hestbeck. A. Hughes. M. Friedman. F. J. Donmayer.	Breda Breda Halbur Coon Rapids Manning Carroll R. 4
Cass County- entral Ia. Poultry & Egg Co	- Commenter	It H. Russe	Atlantic	Jens P. Jensen	Atlantic

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
wift & Co	1 Atlantic	3. G. Jeck	Atlantic	J. W. Cotter	Atlantic
Cedar County— Durant Farmers Creamery Ass'n. Solden Star Creamery Jowden Far. Mul. Co-op. Creamery Massillon Creamery Tipton Creamery West Branch Creamery.	c Bennett c Lowden c Massillon i Tipton	W. H. Kroeger K. Pauls P. H. Schneider A. J. Barth	Durant Bennett. Lowden Massilion. Cedar Rapids Iowa City	A. Gudvangen W. L. Sloan O. R. Ball O. Wichman	Durant Bennett Lowden Massillon Tipton West Branch
Cerro Gordo County Dougherty Co-op. Creamery Sarmers Mut. Co-op. Creamery B. B. Higley & Company. Lindenhurst Creamery Plymouth Co-op. Creamery Rockwell Co-op. Creamery Swaledale Creamery Swaledale Creamery Fhornton Creamery Co. Ventura Farmers Creamery	c Clear Lake n Mason City	W. F. Paul W. S. Wilcox. I. P. Snyder Z. E. Behnke F. C. Stegfried. Henry Donner G. & H. Assink	Clear Lake Mason City Mason City Plymouth Rockwell Swaledale Thornton	S. S. Hudson G. A. Swartz C. W. Peterson C. W. Hart J. S. Smith Henry Donner H. Assink	Dougherty Clear Lake Mason City Plymouth Rockwell Swaledais Thornton Ventura
Cherokee County-	1 Cherokee	Goeb & Goeb	Cherokee	Dean Galleys	Cherokee
Chiokasaw County— Alta Viata Far. Mut. Co-op. Ass'n. Fredericksburg Butter Factory. Ionia Farmers Mut. Creamery Ass'n. Lawler Creamery Ass'n. New Hampton Creamery Ass'n. New Hampton Creamery Ass'n. Williamstown Creamery Ass'n. Williamstown Creamery Ass'n. Clarke County—	e Nashua. c Fredericksburg e Jonta. e Jerico. e Lawier. c New Hampton. c Lawier. c New Hampton	W N Wayne. C. L. Whitcomb. C. B. Moody E. Attleson Ray Nutty J. P. McGinn J. O. Lansverk C. M. Burmaster.	Nashua. Predericksburg Ionia. Lawier Lawier New Hampton. Waucoma. Fredericksburg.	M. H. Fiullis. C. Russler. C. J. Faber. F. W. Nelson J. Finnegan. D. W. Mobler. J. E. Flaskerud Nata Tibbetts	Nashua Frederickshurg Ionia New Hampton Lawler New Hampton Lawler New Hampton
Burns Creamery Company	I Osceola				******
*Central Churning Plant. c-Cu		s-Stock	i-Individual.		tnership.

DAIRY AND FOOD DEPARTMENT

82

ADTMENT

REPORT OF COMMISSIONER

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Clay County— Farmers Creamery Co. angdon Mul. Co-op. Creamery	Langdon toyal	J. E. McCaffrey	Langdon Royal Spencer	John Sadler	Dickens Langdon Royal Spencer Webb
Clayton County— Trown Brand Creamery Parmers Co-op. Creamery Co. Parmers Dreamery Co. Parmersburg & St Olaf Co-op Creamery Annavillo Creamery Co. E. H. Hatch Co. Littleport Par. Co-op. Creamery Co. Milliville Crea	2dgewood Osterdock St. Olaf. 3arber. Garnavillo Edgewood Littleport. Loana. McGregor. Millville McGregor. 3trawberry Point. Wenona.	W. A. Robinson John White Wim, Fuhrman J. I. Berrett, A. J. Kregel, F. H. Hatch G. C. Ruegnitz H. R. Roderick H. J. Friedlein C. F. Limbeck W. A. Carrier John Sabbann	Garber Garnavillo Edgewood	Carl Wilkinson. J. F. Fisher. P. J. Vanlistine. F. W. Hessel M. I. Dilger Earl Batchelder. Ben Frank. Sam Dotson. H. D. Ash. H. M. Clough	Elkader Edgewood Osterdoek St. Olaf Garber Oarnavillo Edgewood Ldtileport Luana McGresor Turkey Biver McGregor Strawberry Point Monona Volga City
Clinton County— Charlotte Greamery Co. Clinton County Central Creamery Farmers Co-op, Creamery Co. Farmers Co-op, Creamery Co. Swift & Company	DeWitt Foronto	A. Diens. W. A. Templeton.	Wneathnud	A. Roendfeldt O. C. Capper Ienry Struck S. R. Long I. W. Ames	Charlotte DeWitt Toronto Wheatland Clinton
Crawford County-	P Denison	I. G. Handford	Denison,	M. G. Hanson	Denison.
Dallas County	Dexter	E. F. Lighty	Dexter	W. L. McMeriamin	Dexter

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Delaware County- Colesburg Co.op. Creamery Co	Delaware. Sarlville. Greeley. Lyan. Sand Springs. Lyan, R. R. Hopkinton. Manchester. Petersburg. Delhi. Chorpe.	A. W. Sackett. I. S. Hutton. L. J. Baskerville. I. J. Baskerville. J. L. Batchelder. Danlel King. H. M. Reeve. E. J. Reed. J. Reed. J. Reed. J. Reed. J. W. Swinburne. Floyd Ryan.	Eariville. Eariville. Ryan	M. E. Boots A. L. Bining G. O. Miller L. W. Ross J. L. Batchelder Alex Graham R. D. Flerstein E. J. Reed J. E. Taylor R. J. Saverald G. Stoussi	Colesburg Delaware Earlville Greeley Ryan Hopkinton Manchester New Vienna R. 1 Deihl Manchester
Des Moines County- Burlington Farmers Merc. Co	Surlington	Lyman Roth H. R. Tweedell	Burlington R. 1 Burlington	E. W. Romkey E. H. Griffith	Burlington Burlington
Dickinson County- ake Park Co-op. Creamery Co. Ass'n dilford Farmers Buiter & Cheese	Milford	F. W. Born	Milford		Lake Park Milford Spirit Lake
Dubuque County— Balltown Farmers Co-op. Creamery Co Beatrice Creamery Co Cascade Co-op. Creamery Co Five Points Mutual Creamery Co Globe Creamery Co Globe Creamery Co Hawkeye Farmers Creamery Co Hickory Valley Creamery Co Globy Cross Creamery Co New Yienna Central Creamery Co SherTill Mut. Co-op. Creamery Ass'n Swift and Company	Dubuque. Cascade. Dyeraville. Durango, R. R. Luxemburg. Zwingle. Epworth. Dyeraville. Holy Cross. Dubuque. New Vienna. Sherrill.	A. F. Ufrick. J. N. Kremer. Raiph Burke. F. Frincher John Langel. H. A. Hague. C. B. Hanna. F. Osterhaus. F. J. Maierz. A. Fleutsch. H. F. Smith. J. C. Boleyn.	Cascade Dyersville, Durango R. 1. New Vienna Zwingle. Epworth. Farley New Vienna Dubuque. New Vienna	Walter Davis C. A. Miller D. T. Froers F. McLean J. P. Cripper H. S. Hague W. W. Newland J. J. Cripper John Dawson H. E. Williamson M. O. Buroker F. Kochler	Waupeton Dubuque Cascade Dyersville Durango R. 1 New Vienna R. 1 Zwingle Epworth Farley N. Buena Vista Dubuque New Vienna Spechts Ferry R. 1 Dubuque

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
Worthington Farmers Creamery	Worthington	W. D. White		C. N. Beahler	Worthington
Emmet County— Estherville Creamery Co	Wallingford	O. F. Refsell	Wallingford	Wm. Helgason J. C. Jensen	Wallingford Ringsted
Payette County— Alpha Farmers Co-op. Creamery. Conter Valley Creamery Co. Center Valley Creamery Co. Conter Valley Creamery Co. Carmont Valley Creamery Co. Conter Valley Creamery Co. Farmers Co-op. Creamery Co. Conter Valley Creamery Co. Far. Mut. Co-op. Creamery Ass'n. Conter Valley Creamery Co. Fayette Mutual Creamery Ass'n. Conter Valley Creamery Co. Harian Far. Mut. Co-op. Creamery Co. Conterve Company Leiwein Parmers Creamery Co. Conterve Company Richfield Creamery Co. Conterve Co. Richfield Creamery Co. Conterve Co. Riverside Creamery Co. Conterve Co. Waucoma Farmers Co-op. Cremy Ass'n. Conterve Co. West Union Farmers Co-op. Cremy Ass'n. Conterve Co.	Summer, R. R., Clermont Eigin St Lucas R. R Arlington Stanley, R. R. Fayette, Westgate, R. R. Maynard Hawkeye Oelwein Oran Summer, R. R. Wadena Wadena Wadena Waetgate	 R. O. Dietel. A. Olson M. Luchsinger. G. H. Hackman. Floyd Finney L. G. Gleinn P. E. Jubb. W. H. Buhrow Frank Cummings. H. F. Hauth. E. E. Day J. N. Getz A. Morf W. H. McGuiness. B. J. Nulty F. S. Gabman. 	Summer Clermont Elgin St. Lucas. Artington Payette. Westgate Maynard Hawkeye Oelwein Oran Sumser. Wadens. Wadens. Westgate.	Tel Slack A. Erickson Ed. Hanson J. T. Mogle Joe Antwine Ralph Porter. C. H. Pinch F. H. Bevrz F. H. Bevrz F. H. Bowdish. R. C. Wilson G. A. Hanson B. F. Bentley J. B. Zbornick W. M. McGulness T. F. Shipton L. C. Barnes	Alpha Sumner Clermont Elgin St. Lucas Arlington Stanley Fayette Westgate Maynard Hawkeye Ociae Sumner Wadena Waucoma West Onion
Floyd County— Charles City Creamery Co	Charles City Colwell. Nora Springs	Nelson & Holness F. Brunner. W. F. Miner.	Charles City Colwell	Paul Pagel C. T. Zenath C. Erickson	Charles City Colwell
	Dows Popejoy Coulter	H. J. Iverson J. J. Wachazel Geo. Dohmann	Hampton	A. O. Larson H. J. Binger. L. Anderson	Dows Popejoy Coulter

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of
heffield Community Greamery	Sheffield	C. D. Simpson		F. C. Koenig	Buttermaker
Greene County-					
Grundy County- eaver Center Creamery Co	Stout, R. R.	A. J. Meyer	Stout	a to an and the second	
Guthrie County-				B. T. Soles	Stout
armers Creamery & Produce Co	AF a set I as a set of the set of	THE WAY TRACEPORTED COMPANY	Guinrie Center	M. J. VanTham	Menlo
Hamilton County— liingson Mathre & Co	Webster City Ellsworth	Ellingson Mathre Co. Jim Slaughter	Webster City Ellsworth	R. L. Hall. Jim Slaughter. L. E. [†] Nelson Fred Thompson	Ellsworth Randall Jewell
Hancock County— itt Creamery Ass'n	Britt	H. A. Schaper H. P. Stahr. J. Klezel. W. Johnson. V. Joston	Britt. Crystal Lake. Garner. Kanawha. Klemme.	G. G. Kolthoff R. O. Rasmusen C. R. Conway O. W. Albright A. D. Gimar	Crystal Lake Garner Kanawha Klemme
Hardin County—	Ackley. Alden Jieves Radeliffe	R. R. Hadley E. C. Edwards W. F. Sharp D. H. Bobb. Herbert Soballe	Alden. Ackley. Radcliffe Eldora	G. L. Armstrong Floyd Kidd. J. F. Sharp D. H. Bobb.	Woden Ackley Alden Sleves tadcliffe Sldora
*Central Churning Plant. e-Co-c		s-Stock.	i-Individual.		******

REPORT OF COMMISSIONER

8

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
fubbard Creamery Co	Iowa Falls	G. H. Fredericks A. M. Whitney	Hubbard Iowa Falls. Owasa. Chicago	J. R. Jones	Hubbard Iowa Falls Owasa Iowa Falls
Henry County- leasant Hill Dairy	Mt. Pleasant	R. C. Campbell	Mt. Pleasant	R. C. Campbell	Mt. Pleasant
Howard County— Creace Creamery Co. armers Co-op. Creamery Co. armers Co-op. Creamery Ass'n. armers Co-op. Creamery Co. faple Leaf Creamery Co. aratoga Co-op. Creamery Co. ibley Creamery. Whelan Produce Company	c Elma. c Chester e Protivin c Cresco c Elma c Saratoga, R. R. l Cresco R. R.	W. C. Dostal C. V. Johnson D. Lane J. P. Welch F. N. Fosse	Elma Chester Protivin Cresco Elma R. 1	C. W. Chyle. J. P. Hyberger M. W. Graf. Hans Witske. T. C. Yeoman	Cresco Elma Chaster Protivin Cresco Elma R. I Saratoga Cresco Elma
Humboldt County— (umboldt Creamery Co ode Creamery & Produce Co for Creamery Co facousta Creamery Co	Bode	H. C. Olson J. E. Donning	Chicago Bode Thor Ottosen	L. C. Knutson E. Relersan	Humboldt Bode Thor Ottosen
Iowa County- Iarengo Creamery Co	i Williamsburg	E. E. Montgomery.	Marengo Williamsburg Victor	E. E. Montgomery.	Marengo Williamsburg
Jackson County— Sellevue Co-op. Creamery Co. "armers Co-op. Creamery "armers Union Co-op. Creamery Co. Jansen Produce Co. Monmouth Creamery Co. "reston Creamery Ass"n. St. Donatus Creamery pringbrook Creamery.	c Andrew c Maquoketa R. R a Maquoketa monmouth c Preston 15t. Donatus	G. H. Bruhn L. B. Huiman A. A. Preston. Max Ehler	Bellevue. Maquoketa. Maquoketa. Monmouth. Preston. St. Donatus. Preeton.	H. C. Thompson G. S. Wing A. P. Schundlack A. J. Spohn G. P. Byrne.	Bellevue Maquoketa Maquoketa Momouth Preston St. Donatus Preston

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Sterling Creamery	.i/Lamotte	Hoffman Cry Co		J. M. Hoffman	Ilamotte
Jasper County- Dairyland Dairy Co	.i Newton	The second cases	and and a second se	and the second second	Concernance -
Johnson County	NIOWA CUN	A T Presson	Tamia Citan	Proved Margaret	
Jones County- Mamosa Far. Co-op. Creamery Co. Aramers Foramery Co. Parmers Mutual Creamery Parmers Mutual Creamery owa Creamery Company.	c Amber c Anamosa c Center Jct c Langworthy Monthallo	P. B. Day. Burton Brown. Grace Mead. Carl W. Siebels.	Amber. Anamosa Center Jct Langworthy	O. Bailey F. C. Koenig Harry Johnson John M. Wolfort Fred Lehman	Amber Anamosa Center Jct. Langworthy Monticello
Keokuk County	What Cheer	C. E. Brown	What Cheer Providence, R. I	Snowden Clary	Sigourney
Kossuth County— ligona Co-op. Creamery Co. Janeroft Co-op. Creamery Co. Tarmers Co-op. Creamery Co. Termania Creamery Co. edyard Co-op. Creamery Co. det Co-op. Creamery Co. Jone Rock Co-op. Creamery Co. Mea City Co-op. Creamery Co. Auto Creek Co-op. Creamery Co. Itonka Co-op. Creamery Co. Hottkemore Farmers Creamery Co. Lee County—	c Algona c Bancroft c Bancroft c Burt e Hoharton c Fenton c Lakota c Lakota c Lone Rock c Lone Rock c Lone Rock R. R. Swea City e Titonka c Whittemore	M. P. Christianson. F. A. Fangman. M. E. Warner A. R. Cruikshank. C. F. C. Laage. J. E. Smith. P. A. Weasman. W. J. Christensen. O. Wichtendahl. S. V. Carter. J. C. Norrille. M. W. Fandel.	Algona Bancroft Burt Algona Fenton Lakota Ledyard Lone Rock R. 1 Lone Rock R. 1 Swea City. Titonka Whittemore	M. P. Christiansen H. E. Thies Paul Macauley Joel Bloomster F. C. Rucker. H. W. Jarchow H. M. Dyer J. M. Hanson. H. R. Smith. J. C. Sorensen John Povelsen Albert Fenger	Algona Bancroft Burt Algona Fenton Lakota Ledyard Lone Rock Lone Rock Lone Rock Swea City Titonka Whittemore
ord Madison Creamery Co	Fort Madison	B. K. Peters J. A. Peacock	Fort Madison Chicago	J. W. Peters R. Merrick	Fort Madison Keokuk
*Central Churning Plant. c-Co	-op.	s-Stock.	1-Individual.	n. Davi	nership.

88

REPORT OF COMMISSIONER

NAME OF CREAMERY	Located at or Near	Name of Proprietor. Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker	
Linn County- Blue Valley Creannery Co. Segron Creamery Co. Segron Creamery Springville Creamery Valley Farm Creamery.	Central City Coggon Cedar Rapids Springville	O. E. Crane M. L. Ware Palmer & Gwyne Earl George	Central City Coggon. Cedar Rapids Springville.	E. R. George L. C. Popenhagen	Central City Coggon Springville	
Lucas County- Douglas Ice Cream Co.	Chariton	L. P. Douglas	Chariton	Roy E. Adams	Chariton	
Lyon County— Farmers Creamery Co Rock Rapids Creamery Co	I George	C. A. Rasmusson	George	Ed. Wilson	George	
Mahaska County— Dasperi Creamery Co Koota Produce Company Love's Creamery Co Producer's Co-op. Dairy.	i Oskaloosai i Oskaloosai	J. G. Love	Oskaloosa	Chas. Love.	Oskaloosa	
Marion County-	Pella	Ben Kuyk	Pella	H. F. Lenocker	Pella	
Marshall County— Jackson Dairy Co. Minerva Valley Co-op. Crmy. Ass'n Nielson Butter & Ice Cream Co. Stals Center Farmers Crmy. Ass'n	c Clemens	Theodore Helmick.	Clemons	W. P. Hughes	Clemons	
Mills County- Glenwood Creamery Co	Halvern.	C. M. Gray. Bruce Bochner	Glenwood Malvern	C. M. Gray. John Goodman	Glenwood Malvern	
Mitchell County- Little Cedar Creamery New Haven Creamery Ass'n.	New Haven	Jullus Brunner	Osage R. 3	L. J. Ethen	Little Cedar Osage R. 3 Osage	

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor. Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
leeville Creamery	s Osage R. R c St. Ansgar R. R.	W. A. Futz. H. K. Klemesrud M. A. Tellefson W. A. Schrandt	Riverville Osage. St. Ansgar Stacyville	M. J. Mickalson H. R. Bullis	Riceville Osage St. Ansgar Stacyville
Monroe County-	p Albla	N. H. Kreger	Albia	F. C. Burlingame.	Albla
Montgomery County- me Blue Ice Cream & Bottling Co yler Brothers	I Red Oak	Lee Blue R. F. Tyler	Red Oak	W. F. Coonley H. Wolfe	Red Oak Villisca
Muscatine County-	s West Liberty	E. Buckman	W. Liberty	W. H. Sampson	West Liberty
O'Brien County- fartley Creamery Co. heldon Co-operative Creamery utherland Creamery Co.	eiSheldon.	George Berhave	Sheldon	L. E. Woodiwiss	Sheldon
Osceola County- shton Creamery	Sibley	E. den Herder J. F. Johannas	Ashton	Paul Meuller V. V. Johnson	Ashton Sibley
Page County-	Clarinda	Hal Gilimore	Clarinda	E. Gustafson	Clarinda
Palo Alto County mmetaburg Creamery Co. armers Co-op. Creamery Co. armers Creamery Co. out Island Creamery Isllard Creamery Weer Lake Creamery Co 'est Bend Co-op. Creamery.	s Emmetsburg. c Ruthven. c Graetinger c Graettinger R. R. c Mallard. c Ayrahire.	L. Stuchmer. H. P. Junker J. Anderson L. M. Anderson C. L. Carmichael C. G. Nelson	Emmetaburg Ruthven. Graettinger Emmetaburg. Mallard Ayrahire.	W. A. Thayer M. P. Junker Henry Hansen. A. P. Andersen. R. Bliss C. G. Nelson	Emmetsburg Ruthven Graettinger Mallard Ayrebire
Plymouth County- Mars Creamery.	Le Mars	W. R. Hutchinson	Sloux City	H. R. Greene	Le Mars
*Central Churning Plant. i-Ind	lividual.	s-Stock.	e-Co-op.	p-Part	nership.

REPORT OF COMMISSIONER

8

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
Pocahonias County- aurens Creamery Co. ocahonias Creamery	Palmer.	E. V. Johnson	Palmer	L. H. Nelson	Laurens Palmer Pocahontas
Polk County— eatrice Creamery Co	Des Moines	J. F. Dawson J. M. Harding	Des Moines Omaha, Nebr	A. L. Larson	Des Moines Des Moines
Pottawattamie County— Joomer Cold Storage Co	Council Bluffs				
Poweshiek County- rookiyn Creamery Co	Brooklyn Grinnell	E. C. Kamoss E. G. Squire	Brooklyn Grinnell	E. C. Kamoss H. E. Crowder	Brooklyn Grinnell
Bac County-	Sac City	H. F. Lange	Sac City	A. G. Redman	Sac City
Scott County— ell Jones Co	Davenport	E. Amos.	Galesburg, Ill.	Louis Rasmussen	Moline, Ill.
Shelby County— ack Valley Creamery Co	Harlan R. R Elk Horn	J. Rasmussen M. Nelson	Harlan R. 5 Exira R. 2	C. W. Anderson Carl Lynge	Harlan R. 5 Elk Horn
Bloux County— armers Co-op. Creamery Co	Hull Bloux Center Orange City Hospers.	J. W. Smit T. Schut J. A. VerSteig Jno. Toetzel	Hull R. 2 Sloux Center Orange City R. R Hospers.	A. M. Hein. A. Yonker F. J. Havens J. F. Van de Moer	Hull Sloux Center Orange City Hospers

CREAMERY LIST-Continued

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or	Name of Buttermaker	P. O. Address of Buttermaker
Rock Valley Creamery Co	Rock Valley	R. Klay	Manager -		AMAGENTIKKET
Story County- armers Co-op. Creamery Co	Ames Slater Huxley Nevada Roland	Prof. M. Mortensen J. H. Wald Sam Maland C. H. Case. C. E. Rod	Ames	 C. Hinze. Clark. A. Jonsen J. Wolle H. Larsen 	Ames Slater Huxley Nevada Roland
Tama County— H. Bobb Creamery	Garwin	E. C. Grady	Gladbrook	McArdle	Gladbrook
H. Nell Creamery Co.	Trapr	Neilson & Walker	TamaC	Christensen	Tama
Taylor County- edford Creamery					
Union County- from Creamery Co	Afton	v. o. williams	Afton	. O. Williams	Afton
Van Buren County- ue Grass Creamery					
Wapello County- G. Buxton Creamery Company	Ottumwa	F. G. Buxton	Ottumwa	N. Keltner	Ottumwa
Washington County- ighton Creamery Cop		N. G. Whisler			material.
8. Relater & Sons	Washington	R. B. Hallock Relster & Sons	Brighton N. Washington H	G. Whisier J. Hays	Brighton Washington
*Central Churning Plant. c-Co-	10	s-Stock	i-Individual		nership.

DAIRY AND FOOD DEPARTMENT

NAME OF CREAMERY	Located at or Near	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker	P. O. Address of Buttermaker
Wayne County- Ias. L. Humphrey, Jr. Creamery	Humeston	J. L. Humphrey, Jr.	Humeston	M. W. Bixby	Humeston
Webster County- Fort Dodge Creamery. Sold Har Creamery. Sowrie Co-op. Creamery Co.	Fort Dodge	L. A. Doncker	Ft. Dodge	R. Dencker	Ft. Dodge
Winnebago County Sorest City Co-op. Creamery Co Arest City Co-op. Creamery Ass'n ake Millis Creamery Co Jacoln Co-op. Creamery Co. Ancoln Co-op. Creamery Co. Carville Creamery Ass'n Thompson Creamery Co. The Creamery Ass'n.	Forest City. Lake Mills. Leland Rake Scarville. Thompson	J. E. Read. Ole T. Groe. O. Michaelson A. A. Sheldon J. E. Hermanson A. T. Neil	Forest City. Lake Mills. Leland Rake Scarville. Thompson	J. B. Frisble Carl Hovland S. O. Rusley L. K. Bjerke Sorn Kristensen. B. Sovik	Forest City Lake Mills Leland Rake Scarville Thompson
Winneshiek County— furr Oak Farmers Co.op. Creamery Co Janor Creamery Co Jecorah Farmers Ice Cave Crmy. Co retina Co-op. Creamery Co. Jaberman Creamery Co. Janoofn Creamery Co. Jordness Creamery Co. Jeasant Co-op. Creamery Co. Jiver Spring Creamery Co.	Calmar, Decorah Festina R. R. IFort Atkinson Highlandville Ridgeway Nordness Decorah	A. A. Oison. N. O. Bendickson . H. J. Schupanitz. Geo. Haberman Bidne & Akre O, O. Rue. Wm. Linnevold. N. O. Fuldet	Calmer Decorah Festina Ft. Atkinson Highlandville Ridgeway Decorah R. 7	F. D. Warner. M. C. Bendlekson. Mike Hauer. Geo. Haberman P. J. Bidne. J. W. Bakken. J. Block. A. H. Kraby	Decorah Festina Ft. Atkinson Highlandville Ridgeway Decorah R. 2 Decorah R. 7
Woodbury County— the Valley Creamery Co. alrmont Creamery Co. fanford Produce Company toberts Sanitary Dairy Co.	Sioux City	L. E. Hurtz J. H. Whittemore	Omaha, Nebr Sloux City	John Bathen M. C. Wheelock	Sioux City Sioux City
Worth County- Farmers Butter & Cheese Ass'n	Northwood		Northwood		

CREAMERY LIST-Continued

	CREA	MERY LIST-Co	ontinued		
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
armers Creamery Co. armers Creamery Co. armers Creamery Co. antontown Creamery Co. antontown Creamery Co. loce Creamery Co. Wright County— armers Co-op. Creamery Co. ddfeld Co-op. Creamery Co. *Central Churning Plant. c-CC	c Manly c Fertile c Hanlontown c Northwood R. B. c Joice l Clarlon	C. J. Hill. J. A. Johnson. E. A. Gudvangen. H. L. Boe. L. L. Skutle. M. Anderson. G. F. Euler. John Roberts	Manly Fertile Hanlontown Northwood Joice	A Joel Gilbertson. Ray Trebil. J. A. Johnson. E. A. Gudvangen. N. O. Dahlen. Oliver Kvale.	Kenmett Manly Pertile Hanlontown Northwood Joice
Course a mana a course	and the second s	*-Stock. ESE FACTORY I	1-Individua		tnership.
NAME OF FACTORY Allamakee County-	Location	Name of Proprietor	Address of Proprietor	Name of Cheesemaker	Address of Cheesemaker
herry Mound Cheese Factory borchester Cheese Factory highsh Bench Cheese Factory orest Mills Cheese Factory lanover No. 1 Cheese Factory lanover No. 2 Cheese Factory lossville Cheese Factory olney Cheese Factory	Waukon, N. Waukon, B. Waukon, N. W.	D. J. Murphy D. J. Murphy D. J. Murphy D. J. Murphy D. J. Murphy	Waukon Waukon Waukon	F. W. Hatch H. J. Murphy H. J. Murphy E. E. Austin L. Ammerman	Harpers Ferry, R. 1 Dorchester Dorchester "ostville Dorchester
Winneshiek Country	Riceville, E	J. Stettler	Riceville	J. Stettler	ticeville
rankville Cheese Factory	Waukon, S. W	D. J. Murphy	Waukon	A. Johnson P	ostville, R. R.

NAME OF FACTORY Location Name of Proprietor Address of Proprietor Mohawk Condensed Milk Company. Waverly W. A. Anderson 71 Hudson St. New York Perry Packing Company. Perry Leroy Corliss. 71 Hudson St. New York 6

94

REPORT OF COMM

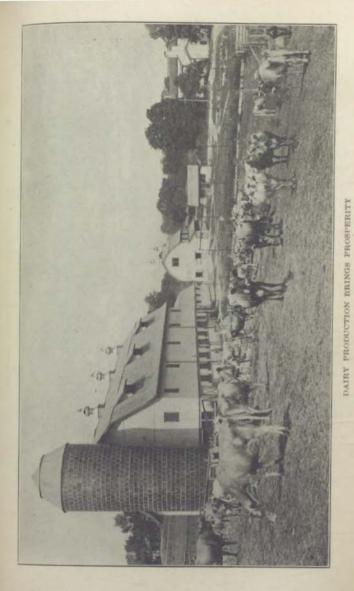
OFFICERS AND EMPLOYES OF THE DAIRY AND FOOD DEPARTMENT

Commissioner	, W. B. Barney Des Moines
	M. E. McMurray Des Moines
	E. L. RedfernDes Moines
	isp., C. S. BogleDes Moines
	B. O. Brownlee Atlantic
	T. A. Clarke
	H. E. ForresterGladbrook
	H. E. Ritter Des Moines
	E. W. NeashamFairfield
	O. P. Thompson Waterloo
	F. L. Odell Sioux Rapids
	Roy Scoles Nashua
	Chris Ottosen Ottosen
	C. C. HouseDavenport
	S. O. Van De Bogart Des Moines
	I. W. MilnesCreston
	I. M. Morrow Douds
	E. A. Countryman Council Bluffs
	H. A. Stearns Cedar Rapids
	M. W. KnappAurora
	esA. B. BriggsOttumwa
	esE. J. Nolan Des Moines
	es., .F. C. Gilmore Marquette
	A. W. Day Des Moines
	R. V. Barker Des Moines
	Blanche Lindblom Des Moines
	Maurine Mack Des Moines
Stenographer	Catharine O'Connell. Des Moines

LAWS ENFORCED BY THE COMMISSIONER

Dairy Law Pure Food Law Agricultural Seed Law Concentrated Feeding Stuffs Law Cold Storage Law Condimental Stock Food Law Paint and Linseed Oil Law Insecticide and Fungicide Law

Turpentine Law Weight and Measure Law Sanitary Law Commercial Fertilizer Law Calcium Carbide Law Egg Law



DAIRY COMMISSIONERS

NAME	County From Which Chosen Appo	Date of First intment Years Served
Honry D. Sherman	Jones May	1, 18861886-1890
Augustus C. Tupper	Mitchell May	1, 18901890-1894
William K. Boardman	Story May	1, 18941894-1895
*Levi S. Gates	.Delaware May	1, 18981898-1898
Byron P. Norton	.Howard Nov.	8, 18981898-1902
Herbert R. Wright	Polk May	1, 19021902-1906

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

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

DAIRY AND FOOD COMMISSIONERS

Herbert R. Wright Polk	July	1,	19061906-1910
William B. Barney Franklin	May	1,	19101910-1922
Russell G. Clark	May	1,	19221922-

REPORT OF COMMISSIONER

We whose lots have been cast in Iowa have much to be thankful for. The oft-repeated expression that we live in the best state in the Union has more to it than mere local pride. If all the states were scored (a term used in this department in grading) I doubt if there is one that would equal ours. Iowa is indeed a wonderful state. It is first in so much and a close second so often I am afraid that we are becoming more or less indifferent to our own resources and opportunities. You hardly take up a paper that you do not run across an article giving interesting information about our state, like the following:

"MORE REASONS FOR CONFIDENCE IN IOWA"

"The average value per farm including all farm property in Iowa is \$39,941.10. The same average for the entire United States is \$12,084.00. Iowa's nearest competitor is Illinois and our total farm values exceed theirs by \$1,703,778,724," and sp on with a series of comparisons that seem almost too good to be true.

Farming is the big business of this state and it is a business that is susceptible to all the intelligence and experience that one may put into it. I want to say here that at no time in its history have the teachings of our agricultural colleges, experimental stations, and associations which have their representatives in every community extolling the virtues of the pure bred, been listened to and acted upon as at present.

The deflation through which this country has gone during the last year and a half hit the farmer first, and on him was the most severe, with the result that all now agree more attention must be paid to diversified farming. That means a better utilization of feed grains and crop by-products, by feeding out a great number of beef cattle, by winter dairying and egg production, by planting better gardens and more small fruits. This insures to the home a wholesome variety of foods and thereby lessening the household expenses. The margin between income and outgo must be widened if the present values of our farms are to be sustained. The land owner as well as the renter has a right to expect more than a mere living. They got that when The question of the importance of the sire at the head of the dairy herd has been discussed and proven so often that it is almost an axiom. Almost everyone realizes that a man's future with his dairy herd depends almost entirely on the bull he uses *now*. Nearly every farmer knows that he should head his herd with a pure-bred bull of advanced registry, or registry of merit breeding. In the past, the cost of this kind of sire has prevented many from making a purchase; however, at the present time, anyone can purchase bulls with the best of breeding at a nominal figure.

I am at this time heartily in favor of the better sire campaigns which have been inaugurated and especially do I think that community breeding by means of the co-operative bull clubs will bring about more economical production and assure dairy prosperity.

The foundation for the industry in this state has been laid carefully and sound. As an indication of this, I have but to refer you to the scores of sanitary, modern creamery buildings of fireproof construction erected the past few years by farmers' co-operative associations, which are taking the place of older frame buildings, which indicates that the farmers' are planning to stand by this industhe best of breeding at a nominal figure.

Although this country has manufactured more dairy products than was ever produced in one year before, it is gratifying to know that consumption has kept pace with production, which is indicated by the fact that there is less butter in cold storage November 1, 1922, than on that date in 1921, the public having consumed all of this year's enormous increase. We are inclined to believe that this is due to the continued decline in prices, which has enabled everyone of moderate means to use creamery butter instead of eleomargarine. which was in demand when butter was beyond their reach in price.

However, much credit should be given the publicity and educational campaigns which the dairy organizations have carried on through the National Dairy Council. This work has tended to awaken the public to the necessity and value of dairy products in the diet. The results of this work have been especially noticeable during the past year.

Consumption within the state has also kept pace with production as reports from creameries show that they sold 25,714,769 pounds at home, which is 3,087,486 pounds more than they disposed of locally during 1921. The following table showing the amount of creamery butter sold in Iowa during the past ten years may be of interest:

REPORT OF COMMISSIONER

2
1

The foregoing figures represent butter manufactured by lowa plants and does not include butter consumed within the state manufactured by plants located in adjoining states.

Please note that the consumption during 1922 is practically twice the amount consumed during 1917.

CREAMERY BUTTER

ONE OF IOWA'S BIGGEST ASSETS

Iowa went over the top during 1922, and we have another banner year in the production of creamery butter. Our creameries manufactured 124,168,089 pounds of butter, which is 25,740,419 pounds more than was ever manufactured in this state before.

The foregoing figures show a gain of 25.7 per cent over 1921 and, although the market price has declined during the year, the total value of creamery butter manufactured has increased, due to the enormous increase in production.

This year's output sold for \$48,462,805.12. This is \$565,999,83 more than the total value last year. We are satisfied that the quality of Iowa butter is steadily improving. The past few years show some rapid strides forward being made in a great many communities, especially where cream grading, scoring, and improvement contests have been started.

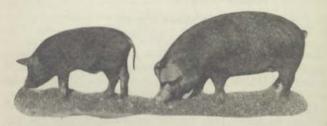
The progress with this line of work was at first very slow, but as the work progressed and results began to appear, creameries became interested until at the present time the Dairy Extension Department of the Iowa State College, who have had charge of this work, are unable with their small force of men to accommodate all of the creameries desiring to get started with this work.

Some of the dairy inspectors in this department have been assisting as much as their other duties would permit and no doubt during the coming year we can arrange to be of a great deal more assistance than we have in the past, providing we begin early in the year to plan our work and outline a plan whereby we can co-operate with

the creameries and everyone interested in this work, with the idea in mind of getting as many plants as possible interested.

Grading of cream has many advantages and few disadvantages. Such work should be thoroughly studied first. More failures are due to the fact that a careful study of the problem has been neglected than any other one thing. If you have never paid according to grade the best thing to do is to get in touch with this department, the dairy department of the Iowa State College, or some creamery where they are grading successfully.

Not all of the interest in grading and cream improvement has been centered in the co-operative plants, as practically all of the



These pigs were started on their rations at the same time. The one on the left had wheat meal and wheat gluten as its source of protein; weight, 55 lbs. The one on the right received wheat meal and skimmed milk in approximately the proportions 1 to 1, weight, 165 lbs.

large centralized plants in this state have been holding meetings, etc., during the past year and are completing plans for the adoption of a grading program for their many stations which are distributed over the entire state.

Early last spring the creameries operating stations in Monroe, Appanoose, Wapello, Davis, Jefferson, Van Buren, Henry, Lee and Des Moines counties, located in the southeastern part of the state, started a grading program as a sort of tryout or experiment and, although the proposition was not pushed as it should have been and was not followed up properly, yet the results were such that all the companies interested are satisfied and are at this time outlining an extensive program for the coming year.

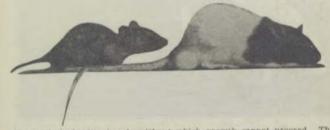
We have during the past year found that the regulations covering cream grading which have been issued by this department needed some slight changes, and, after consulting the dairy department of lowa State College and representatives of all the creamery and dairy organizations, we have now amended them so that we think they cover the situation thoroughly.

MARKET MILK

The increased production of market milk noted last year has continued during this year and much to my gratification statistics gathered by the department show that there has been an increased consumption of this valuable food.

Figures compiled show a 10 per cent increase in the use of market milk, while the value this year of all market milk sold in the state was \$24,664,968.34, as against \$24,869,492.83 last year. This is accounted for by a reduction in the price.

The value of milk in the diet, especially that of children, cannot be overestimated. The experimental evidence which has been ob-



Plant oils lack vitamine A, without which growth cannot proceed. The rat on the left received 5% of cotton seed oil and the one on the right 1.5% of butterfat instead of cottonseed oil; otherwise the rations were alike and the rats were the same ago.

tained is so overwhelming in its results that every diet should contain a liberal amount of milk. Numerous cases are on record where under-weight and under-nourished children have been brought up to normal by adding milk to their diet. Many of our public schools are giving the children milk to drink each day and in every case an improvement is noted in the studies and the appearance and activity of the children. Milk furnishes the material to make bones and teeth, and keeps the heart beating regularly, strengthening the nerves and every part of the body. It has a growing force which makes weak bodies grow into strong ones and keeps healthy bodies healthy. In addition, to the mineral salts and the easily digested proteins contained in milk, there are the vitamines so essential to growth and proper development of the body. Many experiments have been con-

ducted on animals to show the presence of vitamines in milk, which produce these results, and in every case the animal which received milk in its diet develops normally, while the animal deprived of milk is backward and under-weight.

In noting the value of milk as a food it is understood that reference is made to milk that is produced from healthy cows and handled



These two dogs were fed the same diet except that the larger dog received milk. They are both from the same litter.

with due regard to its cleanliness. This department, for a number of years, has been doing much work to improve and keep safe the milk supply of the various cities of the state. Frequent tests and inspections of the dairies are made with this in view. Many cities have passed ordinances regulating the quality of milk. The value of milk as a food and the need to have it pure is generally realized.

To stimulate interest among dairymen for milk of high quality, the department holds an annual market milk contest between the different cities in the state. This contest is held the week previous to the Dairy Cattle Congress and the results and samples of the milk are placed on display there. Council Bluffs had the highest score with 82.67 points; Mason City was second with 80.88 points, and Dubuque third with 78.57 points. The individual scores and the total scores for each city entered in the 1922 contest is herewith tabulated:

REPORT OF COMMISSIONER

Grahl Points A. & I Points Points Points Wm. 1 Points Sam C Points Sam C

MAS

DUB

Mete Foint Crow Point Twin Point Sanit Point Fairn Point J. All Point R. A. Point

FORT

Point Oakd Foint Lees

	Basteria per	Flands &	VIS.	Part 111	Collida and	Autor	Bottle	Total
NCIL BLUFFS	6.C.	Odor	DIRT	1 41 70	Solids not. Fat %	Acouty	& Cap	Total Score
Augusta Brown, 82 67.			Courses.		111.14		a	and the second
Jersry Farm	19,000			4.5	9.65	.22	A	
allowed	27.	23.00	9.0	10.0	10.0	3.0	4.5	86.50
NCIL, BACFTO Verrage Boort, 82.67. Jerory Parm allowed, S. Ganitary Dairy a allowed. Ross. a allowed. Nelson a slowed. Harris	5,200 21.5	22.0	8.0	3,8 9,6	9.17 10.0	.20 5.0	4.5	00.00
Rom	109,000			4.4	9.40	.22		
a allowed	10. 15,000	22.75	8.50	10.0	10,0	3.0	4.8	68.75
Nelson	28,	22.75	9.0	3.6	9.47 10.0	.25	4.5	81.45
Harris	45,000			4.3	9.30	.23		00.47
s allowed	22.	22,75	9.0	10.0	10.0	2.0	4.5	80.25
Christenarn	\$1,000 20,	22.25	9.0	2.8	8.72 10.0	.19	4.5	72.75
erman Dairy	6,000			3.7	9.63	.23	a.e.	10.10
s anowed Harris g allowed Christensen s allowed terman Dalry s allowed e Dairy	31.5	23.0	9.5	9.4	10.0	2.0	4.5	89:00
rt Dairy s allowed ant View Dairy s allowed	8,000 30.5	22.75	8.50	5.5 10.0	9.80 10.0	.25	4.5	86.25
ant View Dairy	27,000	******	0.00	3.8	8.92	.20	4.0	10.00
allowed	25.	22.75	8.75	9.6	10.0	\$.0	4.5	85.60
ON CITY: Average Score,	ari es							
ON CITE: Average coore, i	32,000			3:5	9.01			
nhurst Dairy	24.	22.50	8.50	9.0	10.0	.18	4.5	\$3.50
Ryan	8,500			3.5	9.20	.18		
Ryan	30.	22.75	8.0	9,0	10.0	5.0	4.5	80.25
Pritz s allowed ansen Bros s allowed	21,900 26.	23.00	6.8	4.0	9.23 10.0	.19 5.0	4.5	86.50
anam Bros.	6,600			3.5	\$.86	.15		80.00
s allowed	-31.	22.30	8.0	9.0	10.0	5.0	4.5	90.00
Howard s allowed Hoisschub a allowed Brook Dairy	24,000	22.25	8.75	3.8 9.6	9.07 9.6	.19 10.0	5.0	\$6.10
Holsschub.	250,000	*****	0,10	4.1	9.57	.18	0.0	90,10
a allowed	0.	22.75	0.0	10.0	10.0	5.0	4.5	52.25
Brook Dairy	27,000	22.30	3.0	4.6 10.0	8.83	.20	4.5	80.00
a miloweth	108,000	22.00	3.0	3.8	10.0 9.33	5.0	8,0	80.00
a allowed	10.	23,00	8.0	9.6	10.0	5.0	4.5	80.10
nallowed. Hale. a allowed.	15,900 27.	22.25	7.5	3.1	8.58 9.0	,15 5.0	12	80.25
a mowed	-104.9	## - 20	1.0	5.0	4.9	9.9	4.5	80,20
UQUE: Average Score, 79.5	7.							
Mr. & Thursdall	310,000			3.8	9.19	.22		
a allowed	79,000	23.25	9.5	9.6	10.0	3.0	\$.5.	59.83
a Dairy	19,000	22.75	9.75	4.0	9.23 10.0	4.0	4.5	76.00
allo wed a blowed 	23,700			3.7	9.10	.19		
a allowed	26.	22.50	8.75	9.4 3.0	10.0	5.0	4.5	86.15
a allowed	43,000	23.0	9.0	9.8	8.69 10.0	.18	4.5	83.30
ary Milk Company	1,000,000			3.4	9.32	.21		
a allowed	0.	22.75	9.0	8.0	10.0	4.0	4.5	\$8.25
allowed ary Milk Company a allowed s allowed s allowed an Wallis - allowed - allowed	2,500	23.0	9.5	5.8 10.0	10.15	.25	4.75	90.25
en Wallis	1,200	anin		5.7	9.85	.25		
		21.75	9.25	10.0	10.0	0.0	4.5	89.00
Van Zile	1,100	22.50	8.25	4.1 10.0	9.83 10.0	.20 5.0	4.5	93.75
a manistra e a se			in an	10.0	39.9	0.0		. Barria
T DODOR:							1	
Average Soore, 78.57.	-							
odge Cry.	23,000	22.75	8.5	3.9	8,99	.18 5.0	4.5	84.55
Bar Cry	126,000	20.10	9,0	3.6	9,15	-18	4.9	04.00
a allowed	8.	21.75	8.0	9.2	10.0	5.0	4.5	66.45
Stanbery	25,009			4.0	9.83	.30	1.	85.50
s allowed	139,000	21.50	8.5	3.8	10.9 8.97	.19	4.5	69.09
s allowed.	and , over	22.50	8.0	9.6	10.0	5.0	4.5	66.60
ed Glenn Dairy	13,100			7.3	10.0	.22		
a allowed Bar Cry a allowed Statubery a silowed ar Dairy a silowed a silowed Johnson a silowed a	28.	22.75	8.25	10,0	10.0	3.0	4.5	86.50
a allowed	0.	22.50	7.75	9.6	10.0	4.0	4.5	56.35
chill Dairy	20,000			4.0	10,60	.16		
e allowed	33.5 64,000	21,25	8.0	10.0 3.5	10.0 9.29	5.0	4.5	92.25
ale Dairy s allowed Dairy s allowed	04,000	22.75	7.0	9.0	10.0	5.0	4.5	76.25
Duiry.	\$,500			4.6	9.24	.20		
a allowed	31.5	21.75	8.0	10.0	10.0	5.0	4.5	90.75

14

16

	Bacteria per	Flavor & Odor	VIS. DIRT	Fat %	Bolids not Fat %	Acidity	Bettle & Cap	Total
SIOUX CITY: Average Score, 78.06.	Dist.	and a	and the second		1 44 10		a cap	Score
Roberts Sanitary Dairy (Cert.)	21,000		-	3.0	9.16	.21		
Painta allowed Roberts 8aintary Dairy (Bpee.). Painta allowed Roberts 8aintary Dairy (Bee.). Pointa allowed C, Coppen Dairy Pointa allowed C, Coppen Dairy Pointa allowed Pointa allowed Painton Dairy Pointa allowed Alpha Dairy Pointa allowed Niebiokon Dairy (Spee.) Pointa allowed	26.	23.0	9.0	4.0	10.0 9.71	4.0	6.0	81.00
Points allowed	270,000	22.50	8.5	10.0	10:0 9,47	4.0	4.5	59.50
Points allowed	. 0.	22.25	9.0	9.0	10.0	3.0	1.5	57.75
Nicholson's Dairy Points allowed	8,600	22.00	9.25	3.6	8.85 10.0	.20	4.5	89,95
C. Coppen Dairy	1,000	22.59	9.0	5.1 10.0	9.19 10.0	.25		
Soderstrom Dairy	. 200			3.7	10.02	.27	4.5	90.00
Foints allowed	20,000	22.75	9.25	9.4	10.0	0.0	4.5	90.90
Points allowed	27. 87.009	22.50	8.25	6.0	10.0 8,86	5.0	4.5	83.25
Points allowed	. 13.	22.0	9.50	10.0	10.0	5.0	4.5	74.00
Points allowed	. 73,000	22.50	0.0	4.0 10.0	9.01 10.0	.21	4.75	76.25
DES MOINES:								14:20
Average Score, 77.22. Flynn Dairy	. 174,000			3.4	8.92	.20		
Flynn Dairy. Pointa allowed	3.	21.75	8.0	8.0	10.0	5.0	4.5	60.25
Pointa allowed	4,900	. 22.75	8.0	3.8	9.25 10.0	.20	4.5	91.85
Iowanola Dairy	. 58,000	22.50	7.0	4.2	9.51	.20		
Newens Sanitary Dairy	1,020,000			3.5	9.11	.19	4.5	78.00
Points allowed.	3,200	22.25	9.9	9.0 4.6	10.0	5.0	4.5	59.75
Points allowed. Taylor. Points allowed. Lewanola Dairy. Points allowed. Newenes Saultary Dairy. Points allowed. Points allowed. Points allowed. Meredith. Points allowed. Meek. Points allowed. Jones. Points allowed. CEDAR RAFIDS:	32.5	21.75	9.5	10.0	10.0	3.0	4.5	91.25
Points allowed .	17,	23.0	9.0	10.0	10.0	5.0	4.5	78.50
Pointa allowed	. 17,400	23.0	8.75	4.7	9.61	.91	5.0	87.75
Meek.	194,000	22.0	8.5	4.4	8.92 10.0	.18	5.0	
Jones.	300			3.7	7.93	15		61.30
CEDAD DADIDS.	30.	22.75	7.5	9.4	2.0	5.0	4.5	85,15
Average Score, 74.00.								
	76,000	22.75	8.5	3.5	9.20 10.0	5.0	4.5	74.75
Sanitary Dairy (raw)	. 220,000	23.0	8.75	3.5	8.63	.18		
Points allowed Sanitary Dairy (raw) Points allowed (Grade A) L. Petrak & Son Points allowed	39,000			3.0	9.0 8.93	5.0	4.5	59.45
Points allowed Milo Vondrasek	9,200	23.0	8.75	9.2	10.0	5.0	4.5	83.45
Points allowed	. 91,000	23.0	8.75	9.2	10.0	5.0	4.5	89.45
Points allowed.	12.	22.75	8.0	4.1	0.51 10.0	.19 5.0	4.5	72.25
Fay a Son Points allowed.	27,000	23.0	9.0	3.5	9.22	.20	4.5	85.70
Whiting Dairy Points allowed	. 21,000	21.50	7.5	4.5	9.33	.20		
Foster Dairy	850,000			2.8	8.93	5.0	1.5	84.50
L. Petrnik & Son. Prints allowed. Milo Vondrasek Points allowed. Chapfin Dairy Points allowed. Fay & Son. Points allowed. Whiting Dairy Points allowed. Points allowed. Points allowed. Rawsone Milk Paints allowed.	0. 240,000	22.25	7.75	9.6 3.7	10.0 9.38	5.0 .22	4.5	59.10
Points allowed	. 0.	21.75	8.75	9.4	10.0	3.0	4.5	57.40
DAVENPORT: Average Score, 73.04	12.00				+			
Waage Dairy Co.	20,600			3.7	8.98	.23	110122	
L. F. Cawiesall	41,000	22,75	7.5	9.4	10.0	2.0	1.5	82.15
Points allowed	22.	22.25	7.8	10.0	10.0 9.15	1.0	4.5	77.25
Pints allowed	10.	22.75	7.5	9.2	10.0	4.0	4.5	.67,95
Pointa allowed	18,000	22.50	9.5	3.2 6.0	8,60 9.0	4.0	4.5	75.50
Nodel Dairy Points allowed	.1,860,000	23.25	8.50	3.2 6.0	9.07 10.0	.19	4.5	\$7.25
Superior Dairy	67,000			3.5	9.13	.19		
Iowana Farms.	30,000	22.75	8.50	9.0 2.7	10.0 8.78	5.0	4.5	76.75
Pointa allowed	- 23.	23.00	9.75	0.0	10,0 9,11	5.0 .21	\$.0	78.75
Washington Linty								
DAVERPORT: Average Score, 7.5.04. Waage Daity Co. Points allowed. L. F. Cawicsail. Points allowed. O. K. Daity. Fains allowed. Model Daity. Points allowed. Model Daity. Points allowed. Working Communications Points allowed. Weakington Daity. Points allowed. Weakington Daity. Points allowed. Vos Bros. Points allowed.	30.	23.00	9.0	8.0	10.0 8.66	4.0	4.5	89.00

REPORT OF COMMISSIONER

	Bacteria per c.c.	Flavor & Odor	VIS. DIRT	Fat %	Solids not Fat %	Acidity	Bottle & Cap	Total Score
OTTUMWA: Average Score, 72.29.								
Avenae Sore, 72.29. E. A Barler, Points allowed, A. M. Kishey, Points allowed, A. M. Kishey, Points allowed, A. Aver, Points allowed, A. Abaver, Points allowed, Sahe Dairy, Points allowed, Reoks Bros.	6,250,000	100.000		6.7	9.29	.21		
Points allowed	0.	22.75	8.0	10.0	10.0	4.0	4.5	59.25
A. M. Kelsey	250,000	22.25	8.0	4.3	10.0	.19	4.5	59.75
Ellis Dairy.	2,800			5.7	8,76	10		
Points allowed	33.	20.50	9.0	10.0	10.0 10.0	5.0	4.5	92.00
A. ADaver.	24.	23.00	7.0	10.0	10.0	5.0	4.5	83.50
Slarle Dairy	37,000			4.5	9.34	.22		
Points allowed	23.	22.25	7.0	10.0	10.0 9.28	3.0	4.5	79.75
Points allowed. Brooks Bros. Points allowed Graham & Gacleson Points allowed Styre Bros. Points allowed Newman & Wilson. Points allowed.	24,	21.50	5.0	9.8	10.0	5.0	4.5	79.80
Graham & Garleson	60,000			3.9	9,19	.19		
Points allowed	19.	22.25	6.75	9.8	10.0	5.0	4.5	77.80
Styre Bros.	. 400,000	22.50	7.5	3.5	8:91 10.0	5.0	4.5	58.50
Newman & Wilson	231,000			4.0	9.21	.19		
Points allowed	. 0.	22.50	8,75	10.0	10.0	5.0	4.5	60.75
WATERLOO:								
Average Score, 71.72.	110,000			3.7	9.88	.21		
Johnson Farma	10,000	23,0	8.5	9.4	10.0	4.0	4.5	69.40
Points allowed. Iowa Dairy. Points allowed. M. L. Bowman	46,000			4.6	9.68	.19		
Points allowed	203,000	22.25	7.75	10.0	10.0 8.52	5.0	4.5	80.5
Points allowed	0.	23.25	6.0	7.0	10.0	8.0	4.5	55.75
Points allowed E. F. Gistes Points allowed Producers Milk	3,400			3.6	9.64	.19		
Points allowed	32.5	22.75	8.25	9.2 3.3	10.0 8.90	5.0	4.5	92.20
Points allowed	0,	22,75	8.0	7.0	10.0	5.0	4.5	57.25
Points allowed Waterloo Jersey Farm Points allowed Waterloo Co-operative Dairy	52,000		-	4.6	9.82	.21		215-222
Points allowed	20.	22.50	9.0	10.0 3.9	10.0 8.81	4.0	5.0	80.50
Points allowed	. 120,000	22.25	8.25	9.8	10.0	5.0	4.5	68.80
Points allowed	105,000			3,7	9.10	.17	1.0	
Points allowed Orange Dairy Co	10.	22.75	8.0	9,4 3,7	10.0	5.0	4,5	69.65
Points allowed	11.	22.50	9.0	9.4	10.0	5.0	4.5	71.40
MARSHALLTOWN:								
Average Score 71.33.								
Loss Dairy	. 105,000	22.75	9,0	4.4	9.25	.18 5.0	4.5	71.25
Average Socie 71.33. Loss Dairy Points allowed Worden's Dairy Points allowed Jackaon Dairy Points allowed W. H. Niederhauser Points allowed North Side Dairy Points allowed J. F. Neiderhauser Points allowed Gity View Dairy	1,150,000	66.10	8.0	3.9	9,28	.18	4.0	11.20
Points allowed	. 0.	23.0	8.0	9.8	10.0	5.0	4.5	60.30
Jackson Dairy	73,000	22.75	9.5	3.9 9.8	9.21 10.0	.18	4.5	77.55
W. H. Niederhauser	80,000			3.4	9.18	.19		
Points allowed	15.	22.50	8.0	8.0	10.0	5.0	4.5	73.00
Points allowed	1,470,000	22.50	8.25	4.2	9.21 10.0	.18 5.0	4.5	60.25
J. F. Neiderhauser	30,000		0.00	4.1	8.93	.18		00.00
Points allowed	25.	23.0	8.0	10.0	10.0	5.0	4.5	85.50
City View Dairy	400,000	23.0	8.5	5.2 10.0	9.73 10.0	.19 5.0	4.5	61.00
Points allowed Iowa Dairy Marketing Ass'n	85,000			3.9	9.42	.18		
		22.75	8.5	9.8	10.0	5.0	4.5	74.55
Parlor Grocery. Points allowed	69,000 17.	22.75	8.5	9.8	10.0	5.0	4.5	77.55
TO POPULAT THE COMPLEXAT		Saures	012-	210	a strate	and a	2/2/	00162
BURLINGTON:								
Sanitary Milk Co	360,000			3.6	8.93	.18		
Points allowed	0.	22.75	5.0	9.2	10.0	5.0 .18	4.5	56.45
C. W. Dell.	. 310,000	22.75	5.0	10.0	8.0	5.0	4.5	55.25
Ben Sourwine	230,000			4.2	9.0	.18		
Pointa allowed	0.	22.75	5.0	10.0	10.0	5.0	4.5	57.25
BURLINGTON: Average Score, 65.32. Sanitary Milk Co. Pointa allowed C. W. Bell. Pointa allowed Ban Sourwine. Pointa allowed Harry Brooks Pointa allowed	148,000	23.75	7.75	3.4 8.0	8.44 7.0	5.0	4.5	61.00
THE LE Dead serves	100 000			3.9	9.14	.18		
Conta allowed	400,000	23.0	6.75	9.8	10.0 9.16	5.0	4.5	68.05
Points allowed		22.50	5.0	10.0	10.0	5.0	4.5	\$7.00
John F. Miller	4,100			4.4	9,20	.18		
Gen W Moore	440,000	23.25	5.50	10.0 3.7	10.0	5.0	4.5	90.25
W. D. Freedeman. Points allowed. Gustafaon Bros. Points allowed John F. Milser Points allowed Geo. W. Moore. Points allowed. Theo. Johnson	0.	23.0	8.0	9.4	10.0	5.0	4.5	59.9
Theo. Johnson Points allowed	37,000	23.0	8.0	3.6	9.22	.19 5.0	4.5	82.7

ICE CREAM

The ice cream industry has gone through another strenuous year, with both manufacturers and retailers doing their best to get back to normal. This they have accomplished so far as high manufacturing costs, express rates, shortage of ice, and poor collections would permit.

Both the retail and wholesale price was reduced somewhat. This has had a tendency to increase consumption. Figures we have been able to compile show that 5,748,185 gallons were manufactured this year, as compared with 5,580,763 gallons during 1921.

Although we have had an increase in the amount manufactured, there has been a decrease in the total value.

Total sales of the product during 1922 amounted to \$5,460,775.75, as compared with \$6,138,839.30 during 1921, which is due, of course, to the decline in price.

High express rates have been a disadvantage to some manufacturers and have compelled some to establish small plants at different points in the state which has enabled them to eliminate long hauls by express.

We hope that a great many of the difficulties confronting this industry in Iowa can be overcome and ironed out during the coming year. On account of its palatability and food value, there is no other product that is sometimes termed a luxury which comes nearer being a necessity. With this in mind, we believe that the sooner we return to a generous ten-cent dish of ice cream, the greater the consumption will be and the consumer will be thereby benefited because of the essential life-giving properties contained in this popular dairy product. This increased consumption will likewise be of financial benefit to both manufacturer and dealer.

CONDENSED MILK

Iowa's two condenseries increased their output this year. Their product sold for \$408,641.48, as compared with \$372,678.05 during 1921.

This state imports large quantities of this product; in fact, production never has equaled the demand. Imitation evaporated milk has been making considerable headway in this state due to the fact that it retails for less money and the merchant with most brands has a larger margin of profit which encourages him to push the sale of the imitation product in preference to genuine condensed milk.

We have found many merchants advertising and selling these imitation products as regular condensed milk and the department has found it necessary to make numerous prosecutions of these offenders.

Imitation evaporated milk, or, as it is more commonly known, "filled milk," is condensed skim milk to which has been added cocoanut oil which was designed to take the place of the butterfat which the milk originally contained.

We believe it is unfair to allow manufacturers to place on the market in the state of Iowa a product which has been deprived of a large amount of its food value. Wisconsin and several other states have already passed laws prohibiting the manufacture and sale of "filled milk." In Wisconsin the constitutionality of this law was contested and the courts have held that it was constitutional.

A bill known as the "Voight Filled Milk Bill" is also before congress at this time, which prohibits the interstate shipment of this product. This bill passed the house of representatives with a large majority and is now being considered in the senate.

We believe that a law similar to the Wisconsin law should be passed in this state.

CHEESE

The manufacture of cheese in this state is almost a thing of the past and unless conditions change a cheese factory soon will be looked upon as a relic of bygone days.

During 1920 we had seventeen factories operating; during 1921 this was reduced to ten, and we now have but five who have been able to survive and continue operations.

These five factories only manufactured 256,415 pounds of cheese during the past year. This is a lamentable condition, as this state consumes large quantities of cheese and we have a great many communities that could be benefited by establishing cheese factories.

THE STATE BUTTERMARK

Increased interest concerning the use of the Iowa Butter mark has been very noticeable on the part of both the creameries and the butter buyers during the past year. More creameries have qualified for the use of the brand this year than have ever qualified during any year since the brand was established. Most of those qualifying during the past year have been located in Bremer county, and we hope during 1923 that the creameries in this county will be able to say that they are 100 per cent state brand.

The fact that so many creameries located in one county have started using the brand has attracted the attention of a great many



IOWA'S HONOR ROLL Butter Makers Operating State Brand Creameries.



IOWA'S HONOR ROLL Butter Makers Operating State Brand Creameries,

REPORT OF COMMISSIONER

DAIRY AND FOOD DEPARTMENT

buyers and several of them have been negotiating to purchase the entire output of all these plants, getting the product together at some central point and shipping to the markets in carload lots.

We believe as more creameries begin using the state brand and larger quantities of this quality of butter are available that the competition and interest on the part of buyers will be more noticeable. We also believe that the consumers of this state are anxious to obtain our state brand butter and are willing to pay a premium for it providing the creameries will get together and arrange to place their product on our home markets.

License No. 1 was issued to the Strawberry Point Farmers' Creamery in May, 1916, and since that time 18 creameries have been issued licenses, 2 of which have been forced to discontinue the use of the brand, which was due to various local conditions affecting both plants.

We think that the butter makers who have been able to line up their creameries so that they could meet the strict requirements necessary to be able to use this brand have never been given as much credit as they should have had for the pioneer work they have done; neither have they or the creameries using the brand had the publicity due them. With this in mind, we are publishing below a list of the state brand creameries and elsewhere in the report you will find the photographs of Iowa's honor roll or the butter makers responsible for their creameries using the brand.

LIST OF LICENSED IOWA CREAMERIES USING STATE TRADE-MARK

Strawberry Point Farmers Cry. Assn. Strawberry Pt. Licens	e No.	1	
raimers Greamery Company Monte H	No.	2	
Algona Co-operative Creamery Co Algona			
Bremer Crasmery Company, Contratigona			
Bremer Creamery CompanyBremer	No.	6	
Hull Co-op. Creamery Co	No.		
	No.	- 8	
Washington Claumery Co	No.	9	
Washington Greamery Co	No.	10	
Tripoli Creamery Co			
	No.		
Denver Creamery Contraction Northwood	No.	13	
Denver Creamery Co	No.	14	
Nimger Greamery Co Roadlen			
Reading Oreamery Co	No,		
	No.	16	
Farman Creamery Construction Waverly	No.	17	
Farmers Co-op CreameryOelwein	No. 1		
Slegel Creamery Company Tripoli			
and a second sec	No.	19	

The state of Iowa created and adopted the state trade-mark for butter manufactured in the state of Iowa "for the purpose of insuring a higher standard of excellence and quality, and to insure a more healthful product for consumption at home and abroad." Furthermore, it is the purpose of the law to promote educational work which will assist the Iowa butter makers in producing the butter to be marketed under the state trade-mark and thereby secure a more uniform butter market and a higher market value for the butter.

The mark as adopted consists of a heavy circle with an inner light circle, the center space being occupied by an outline of the map of Iowa and within the outline shall appear in prominent letters the words, "Iowa Butter." In the space above the outline and within the light circle shall appear the words "First Quality. License No. ____" and the words "State Butter Control" shall be inserted in the space below the outline of the map and within the light circle.



Trade-Mark Adopted for First Quality Iowa Butter.

Said trade-mark and its use and regulations shall be in charge of and under the control of an executive committee of five members, consisting of the president of the Iowa State Dairy Association, the president of the Iowa State Butter Makers' Association, the dean of the Division of Agriculture of the Iowa State College of Agriculture and Mechanic Arts, the professor of Dairying of the same institution and the Dairy and Food Commissioner of the state of Iowa.

The state trade-mark shall be controlled, used, manufactured and issued under such rules and regulations as may be found necessary. from time to time, by the executive committee. Such executive committee shall have power to make such changes in the rules and regulations for the use of the said trade-mark as it may from time to time deem necessary.

The rules governing the use of such trade-mark shall be published by, and through bulletins issued by the State Dairy and Food Commission. Such labels, stamps, or other means of imprinting such trade-marks upon the manufactured product, or the receptacles containing the same shall be furnished to those entitled to the use thereof by the State Dairy and Food Commissioner at actual cost.

RULES AND REGULATIONS GOVERNING USE OF THE 10WA BUTTER TRADE-MARK

1. Butter sold under the trade-mark shall be manufactured in a creamery which meets the requirements of the Iowa Sanitary Law. Such creameries shall obtain a score of 85 or above, 100 being perfect, scored in accordance with the Iowa State Score Card for creameries.

2. The butter shall obtain a score on the quality of not less than 93 points, 100 being perfect, on 75 per cent or more of the scoring. A creamery obtaining a score on butter below 92, or a creamery that has more than 25 per cent of its scoring below 93, shall forfeit its right to the use of such trade-mark until such time as the creamery is again in a position to meet the necessary requirements.

3. All butter marked with the Iowa state mark shall comply with the Iowa state standards and contain not less than 80 per cent of butter fat, and shall contain less than 16 per cent of moisture. No preservative, neutralizer or adulterant shall be added to butter or to cream from which the butter is to be manufactured.

4. Butter sold under said mark shall be manufactured from cream, which has been pasteurized, either in the form of milk or cream. Pasteurization shall consist in heating the milk or the cream to a temperature of not less than 140 degrees F. and holding above 140 degrees F. for a period of not less than 20 minutes, or heating the milk or cream to a temperature of not less than 180 degrees F. when flash heat is applied.

5. If the butter is solid packed in tubs, the tubs shall bear the Iowa state mark on two opposite sides, the marks shall be placed immediately below the upper hoop or hoops, said mark to be three inches in diameter. In addition to the markings as stated, the top surface of the butter shall bear an imprint of the said mark, this imprint to be five inches in diameter and the imprint into the butter shall be from one-sixteenth to one-eighth of an inch in depth. Butter in boxes either solid packed or in print, shall bear similar markings on both ends of the boxes as those placed on the outside of the tubs. A similar imprint shall be made into the butter if solid packed.

6. The date of manufacture of the butter shall be marked on the outside of the tub or box close to the state mark, in letters not less than one-half inch in height, the same being placed in the following manner: $\frac{12-3}{6}$ The figure 12 designates the number of the month, the figure 6 designates the day of the month, and the figure 5 designates the number of the churning on that day. Thus for the above markings the reading would be that the butter was manufactured on the twelfth month, sixth day and was the product of the fifth churning.

7. Parchments for print butter may be marked with the state trade-mark. The size of such markings shall be two inches in diameter. At this time the board does not require the marking of the date on individual prints.

8. Application, in writing, shall be made to the State Dairy and Food Commissioner, who after having satisfied himself that the manufacturer is qualified to comply with all the requirements will issue permit to use the state mark and also furnish copies of the mark and necessary equipment to the applicant. No other stamp or marking shall be used unless the same shall meet with the approval of the State Dairy and Food Commissioner.

9. Any creamery obtaining the privilege of using the Iowa state mark shall immediately upon request from the executive committee, send packages of butter for the purpose of scoring, to such places and in such quantities as may be designated by the executive committee. This butter shall be taken from the most recent churning made at the creamery. The butter after scoring will be disposed of, as nearly as possible, in accordance with the instructions furnished by the creamery.

10. The state dairy law makes it illegal for any person, firm, corporation, association or individual to use the said trade-mark for butter on their products without first complying with all the rules and regulations prescribed by the said executive committee for the use of the same.

11. Any person violating any of the provisions above shall be guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than twenty-five nor more than one hundred dollars or by imprisonment for not less than thirty days in the county jail. [Dairy laws of the state of Iowa, section 2515-g.]

IOWA STATE DAIRY ASSOCIATION ACTIVITIES J. P. Eves, Field Secretary

The year 1922 has shown a continuation of the dairy interest so manifest during the previous year. The maintenance of a very satisfactory butter market together with a continuation of low grain prices has maintained the ever-increasing interest in dairying and the demand for dairy cows. Iowa has long been following, more or less, a so-called dual-purpose type, but during the past year a decided change has been apparent. In practically every portion of the state where there was a decent market for milk or butterfat, demand for cows of our special purpose dairy breeds has been rapidly increasing. This condition is gratifying since permanent dairy development was impossible unless based on our dairy breeds as a foundation.

One drawback to the most rapid development of the industry has been the fact that Iowa has been made more or less of a dumping ground by neighboring states for their inferior quality dairy cattle. In many instances, these cattle went into communities as the first representatives of their particular breed and in such cases have acted in retarding the development of that breed rather than increasing its popularity.

Our Iowa farmers have not been accustomed to paying the prices demanded by breeders for the highest producing quality of dairy cattle, hence they have been inclined to buy representatives of that breed that they could secure for their price. This condition, together with the fact that we have had too many speculators shipping in cattle from terminal stock yards bearing the marks of dairy breeds and sold as high-grade dairy cows have been severe detriments to the industry.

Figures alone give us an idea of the actual amount of money invested by Iowa farmers in dairy cattle during the past year. Accurate figures from Minnesota and from Wisconsin for year ending June 30, 1922, show some surprising facts. Dr. S. G. Eliason, state veterinarian of Wisconsin, reports that 5,379 head of dairy cattle were shipped into Iowa during the year mentioned, the total valuation of which amounted to \$516,240.00. Dr. Charles E. Cotton, secretary of the Minnesota Live Stock Sanitary Board, reports that during the same year Minnesota sold into Iowa 6,001 head of dairy cattle valued at \$558,260.00. These figures show that from Wisconsin and Minnesota alone Iowa purchased 11,380 head of dairy cattle at a valuation of \$1,074,500.00. When we consider that many cattle were imported from Illinois, Missouri, Ohio, and other neighboring states, it is a safe estimate that our farmers purchased better than a million and a half dollars worth of dairy cattle or approximately 15,000 head. This amount of money was sent from the state during a year that our banks were supposedly harder pressed than any like year in their history.

These figures and the statements mentioned before would indicate that Iowa is very rapidly turning from beef raising to dairying. I do not want to give the impression that such a rapid change is being made. We must consider that a percentage of the men making this original investment in dairying are not dairy men, will not be permanently interested and many will be out of the business within a very few years with little profit to show for their experience.

BREEDERS DEMONSTRATE POSSIBLE PRODUCTION BY TESTING

The dairy breeders of the state have been doing a good job of bringing the producing ability of our representative breed more definitely to the attention of the milking farmers. The Holstein state milk record, which formerly stood at 26,300 pounds, has been beaten by two cows in the same herd. O. L. Hamer, Waterloo, with the great cow, White Beauty Concordia, and her half-sister has won this new honor. White Beauty completed her year with a production of 28,495.7 pounds of milk containing 1,107 pounds butter. These records are all the more creditable when we consider that they were made not by an experienced feeder or by one of our largest and best equipped farms, but by a practical farmer.

The Guernsey and Jersey breeders have both made remarkable strides. Possibly from the standpoint of state records made, the Sherman Nursery Company, at Charles City, holds the largest place in the limelight. Two state records have already been broken by cows owned in this herd. Brown Lady's Little Jewel is the new junior four-year-old champion. She produced in one year 12,290 pounds of milk containing 655.17 pounds butterfat. The other Sherman farm champion is the junior two-year-old heifer, Raleighs Torono's Lady, with a year's production of 10,237 pounds milk containing 563.5 pounds butterfat.

Still more important in my opinion is the information contained in the annual Iowa Cow Test Association report recently issued by the extension department at the Iowa State College. It must be remembered that these records are made with just common farm care with twice a day milking, so that extreme production is not to be expected. Five herds in the state averaged over 400 pounds of butterfat per cow for the year. This production is two and one-half times as much as the average herd production in Iowa. These herds averaged \$80.00 to \$100.00 profit per cow above feed cost. Of the 322 herds tested, 62 herds averaged 270 pounds of butterfat per cow.

The foregoing statements are made to give just a little indication of the trend of dairying in the state. The interest has been growing by leaps, but we have discouraged rather than encouraged this rapid change, believing that too large a percentage of these beginners would lose rather than gain. A much more permanent and feasible plan and one that is urged at all times is to feed the present herd more efficiently so as to make possible maximum production; test production of present herds in order to discard the unprofitable or boarder cows; and then select more carefully, breed for production dairy sires.

1922 PROJECTS

DAIRY CALF CLUB WORK

The boys' and girls' dairy calf club work has been steadily growing in popularity because it is realized as one of the safe, permanent methods of increasing dairy interest and introducing the right kind of dairy cattle. The kind of clubs organized during the past year varied somewhat with previous years. With conditions unsettled, people were more reluctant to push the purebred club, but the clubs organized with grade calves increased in popularity.

The bankers in all parts of the state showed a splendid willingness to co-operate and push the project whenever they were asked. This support, of course, includes, in most instances, the entire financing of the club.

The number of clubs organized does not indicate the amount of time or effort required from the office in the field. All of our purebred clubs and some of our grade clubs are organized on a threeyear basis. This requires follow-up work on the clubs organized one and two years previous in addition to those just started.

The three year or "long time" feature of our Iowa clubs is proving a very popular one because it gives each member a well-rounded experience not only in the care of the calf, but the growing out of that calf into a cow, the problem of selecting a correct kind of a sire to breed to and being made to realize the possibility in reproduction when the calves from their club heifers are dropped and the profit to be made from the production of milk and butterfat.

1922 CLUBS

Pure-Bred Calves

Organized by	Calves	Breed
Polk Co. Guernsey Breeders' Ass'n	14	Guernseys Holsteins
Linn Co. Guernsey Breeders' Ass'n	13	Guernseys

No of

Grade Calves

Hancock Co. Farm Bureau Crystal Lake Garner—Co-operative Creamery	20 7 2	Holsteins Holsteins Guernseys
Kanawha-Co-operative Creamery	7 2	Holsteins Guernseys
Kossuth Co. Farm Bureau Titonka	21 4	Guernseys Holsteins
Lone Rock	9 4	Guernseys Holsteins
Fenton	5 4	Guernseys Holsteins
Poweshiek Co. Farm Bureau Brooklyn	8	Holsteins

CLUB EXHIBITS AND JUDGING CONTESTS

In order to make our clubs a success much time and effort must be spent in arranging for means of bringing members together in friendly competition. Club exhibits, judging contests, etc., have proven very popular, as well as their educational value. In practically all of our clubs a calf club show and judging contest was held in connection with the county fair. At this time the five best calves from the various clubs and the three best junior judges were selected to compete in the contest held, under the supervision of this association, at the Dairy Cattle Congress at Waterloo. From this contest the three high members were selected to represent Iowa at the National Dairy Show.

The State Calf Club Show was held at the Dairy Cattle Congress and proved a real success, even though it was the first state exhibit. Fifty head of splendid heifers were proudly shown by their youthful owners.

BREEDERS' ASSOCIATION

Representatives from this association in the past have always worked with and co-operated with the dairy breeders of the state,

but it has been our opinion that this plan could be improved upon. Accordingly, a plan was agreed upon in which this association would perform a more definite work for the dairy breed associations and could then in turn expect a more liberal and loyal membership.

This plan includes a close co-operation of this association with the state breed associations. The representatives of the dairy association handle the field secretary work for the dairy breed associations, providing these organizations maintain their own organizations and finance same. The breed associations in turn guarantee membership in the State Dairy Association. This year the membership will run very close to the 1,000 mark by the end of the year.

By this plan of co-operation, the dairy association is able to get county breed associations to accept a definite program of work. With all of these breeders pushing the same plan that representatives of the dairy association are, there can be no doubt of the increasing results. During the past year we have worked through fifteen such county organizations.

EXCHANGE BUREAU

Through the co-operation of the state and county breed associations, and a close touch, in this way, with all breeders of the state, this association is able to handle a much more effective exchange bureau. A pretty definite file of grade and pure-bred cattle for sale in the state is kept at the association office and, in this way, buyer and seller are brought much closer together. We are trying to encourage Iowa inquiries to buy Iowa cattle because we believe they can come more nearly finding out the real value of the animal they are buying and can be more safely protected in their purchase.

CO-OPERATION OF EXTENSION ORGANIZATIONS

We are pleased to report that we have never experienced a more wholehearted and sincere cooperation from dairy and extension organizations than during the past year. The extension department, the dairy husbandry department, and the dairy manufacturing department of Iowa State College, the Dairy and Food Commission, and the State Dairy Council have co-operated with us and given us assistance whenever it was in their power.

PROJECTS FOR 1923

The plans for 1923 include an expansion of the work carried on this year. One representative handled all of the work for better than half of the past year. We are assured of the financial support of the dairy breed associations, of membership funds, and we hope these will be sufficient to make possible the retaining of two representatives for the entire year, even though our small state appropriation will not. Without two men it is impossible to continue the old work in anything like an efficient manner and still handle the increasing demands.

IOWA EGG LAW

As has been frequently stated in previous annual reports, the purpose of the Iowa egg law is to promote fair dealing in eggs and increase the market value of our egg crop. In justice to most of the dealers in eggs I will say that they so take it, but there are some, more than there should be, who seem to feel that any restriction on their manner of doing business is an infringement upon their personal liberty.

It is the purpose of this department in making rules and regulations for administering the law to not only encourage the merchant who is disposed to be fair, but to protect him from the disastrous results of unfair buying. Also to encourage the farmer to market a better class of eggs. When you consider that during the spring months when we get our best eggs it takes 45 dozen eggs on the average to make a 30-dozen case of standard or No. 1 eggs, 15 dozen going into secondary grades (and this does not include the bad eggs that are rejected), you get some idea of what indifference on the part of the farmer as to what kind of eggs he markets has to do with the price he receives. The percentage of seconds has to be taken into account by the packer who makes the price.

During the hot and early fall months the percentage of seconds is much greater. There are times in the extreme hot weather when there are scarcely any No. 1 eggs except those furnished by near-by henneries, often No. 1 April packed storage eggs being preferred to the current receipts. It has been estimated that this state alone suffers a loss each year of \$5,000,000.00 to \$6,000,000.00 because of the indifference of so many of our farmers as to the kind of eggs they produce and the manner of their handling.

That it pays to give more attention to the quality of your product is evidenced by the fact that the price paid by the merchants and dealers in certain communities invariably ranges from two to five cents higher than in most places. Admitting that competition may in part account for this at times, I think you will find on investigating that in the majority of cases the quality of the eggs enable the dealer to pay more.

The following tabulations will be of interest, as it shows the variations in price one month with another for the last tweive years. Also it compares the receipts and prices of this year with those of last. We are getting back close to pre-war prices.

EGGS

No. Doz, No. Doz.	1921. 1922.		 	133,100,000 159,720,000
Total Va	lue 1	21		\$51 376 000

Total Value 1922.....\$43,539,672

AVERAGE PRICE PAID TO IOWA FARMERS FOR EGGS ON THE FIRST DAY OF EACH MONTH OF THE YEARS SHOWN

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1910	28	28	21	18	18	17	16	14	17	20	22	25
1911	26	21	14	13	14	13	12	12	14	17	20	25
1912	27	28	23	17	17	16	15	16	17	19	22	25
1913	23	20	17	15	15	16	15	14	16	19	23	29
1914	27	26	22	16	16	16	16	16	20	21	21	26
1915	28	30	22	16	17	16	15	15	16	20	23	27
1916	28	27	22	17	18	19	19	20	21	26	30	34
1917	35	36	33	25	30	31	27	28	32	34	35	39
1918	42	47	38	30	31	28	28	33	33	39	42	51
1919	56	45	30	34	37	38	33	37	38	47	52	59
1920	55	45	39	37	38	33	37	44	48	53	64	61
1921	49	32	21	18	16	20	22	26	27	37	46	- 44
1922	26	23	18	20	20	16				120	-200	1.000.0

NECESSITY FOR STRICT ENFORCEMENT OF THE SANITARY FOOD LAWS

Sanitary food laws have been of inestimable value in procuring for the public a safe food supply. Wholesome foods are easily made dangerous by being handled or stored under insanitary conditions. Methods which obtained in the manufacturing and handling of our food supply a few years ago are a far cry from present-day methods, due to the enactment and enforcement of sanitary laws. Food officials found it difficult and were often met with opposition in trying to enforce these laws when they were enacted. The installation of cases to protect foods often involved considerable expense and the average dealer was loath to spend any money to safeguard the health of the public. Many can recall to mind the confectionery with long counters covered with trays of many hued candies with the prospective customer picking over and tasting the different varieties in search of one that struck his fancy. I dare say in many cases these counters of candy were not even covered during the process of sweeping to remove the dust and dirt tracked in from the street on the feet of customers, mixed with the expectorations of those possibly tuberculous.

An illustration of these conditions is recalled wherein a large department store maintained a candy department of the "hollow square" type. The owner was advised that it would be necessary to put the candy in cases which would protect it from the contamination with dust and dirt. The order was complied with with some reluctance, but efficient plate glass cases were installed. In visiting this store to see if the order had been complied with, it was noticed that the clerk was busily engaged in wiping a very perceptible layer of dust from the top of the case. Upon inquiry as to how she liked the new case she complained that they kept her busy cleaning off the dust. When asked where the dust went before the cases were installed, she admitted that it must have collected on the candy. Many even more glaring instances of food contamination can no doubt be cited by many food officials.

In conjunction with the fight against dust and dirt in our foods there has been waged a relentless war against the housefly, possibly one of the greatest spreaders of the "white plague" and many other diseases of mankind. It is a wise provision that requires the use of proper screens over all openings in buildings or rooms where foods are handled, but in many instances, without the occasional visit of the inspector, these would be allowed to become full of rust holes and worthless. Sanitary laws have been directly responsible for the nation-wide educational campaigns, conducted in the various states, showing by circulars sent out by boards of health and food officials. the real menace of the common fly. His deadly work has been painted in pictures and recited in verse. Traps have been designed to catch him in vast numbers by means of an enticing bait and many cities have offered rewards for the boy or girl who could catch the largest number. Official bulletins point out his breeding places and tell of the proper treatment of these places to destroy the eggs and reduce his numbers. I venture the prophecy that the time will come when the law will require the destruction of the common rat, as he is a contaminator as well as a destroyer of foods. It is encouraging to know that in practically every case where dealers in food products have been compelled to install proper protection for foods that they say they would not think of returning to the old system; in fact, many have exceeded the requirements and invested heavily in plate glass cases with white tile floors which are easily cleaned and displays their foods in an enticing manner. Cabinet manufacturers quickly saw the value of sanitary food display cases and many on the market today are the last word in the cabinetmaker's art. The remtable dealer has likewise recognized their value and their installation is a part of every modern grocery and market. From what I have said it might seem that the millennium in food sanitation was near. but we are far from it. Visit any of our large cities and you are likely to find bakeries being operated in basements with little ventilation and only artificial light and utensils of doubtful cleanliness. These places, although comparatively few, exist for various reasons They have been found by the inspector and have been made to improve, but the owner is a man of small means, industrious, and a respectable citizen. He would like to have his bakery in a modern room, but he has not the means to buy or rent such a place and we suffer him to continue in such a place with the best possible sanitary conditions under such surroundings. Officials are in part excusable for such conditions, but food officials should strive for the elimination of every bakery or food factory in any basement not onehalf above the ground with ample daylight and cement floors.

There is one class of manufacturers which should not be tolerated and that is the small bottler of soda waters who rents a shed or a ramshackle back room and with a foot-power bottling machine and a tub of warm or possibly cold water for washing his bottles makes a product which he offers to the public as a cool, refreshing beverage. In many cases these men are foreigners of the lowest class, with little or no conception of cleanliness, and there is enough authority in our laws to eliminate such places completely, and officials are derelict in their duty if they permit food to be produced under such conditions. Another problem which the food officials have to contend with is the foreign grocer and butcher in the foreign sections of our larger cities. They are in most cases naturally unsanitary and their customers being of the same or similar extraction are content to let them operate in this manner. Frequent inspection and the force of the law seems to be the only method which will maintain any semblance of proper sanitary methods and surroundings with this class of merchants. While the sanitary laws have improved the country slaughterhouse which was overrun with rats and surrounded with nauseating filth, such places should be eliminated, for such an institution has no place in modern times.

We can all remember when the butcher's wagon drove about the city loaded with dressed meats and unprotected from the dust and filth constantly stirred up by the wind. Bread was even transported about unwrapped and in open delivery wagons, the driver handling the horses and no doubt his person without any attempt at washing his hands. The unwrapped loaves were corded up on his dirty coat sleeve, carried into the grocery and dumped into an open basket to be further exposed and handed to the customer by hands of doubtful cleanliness. As usual there was some opposition to protecting these foods, but the white canvas cover is now in general use on meat wagons and trucks and the baker has been quick to realize the sale value of his loaf of bread wrapped in a decorated transparent wrapper which advertised his product as well as protecting it from all possible contamination. Viewing the past and the present the efforts put forth by food officials to bring about these changes have certainly been worth while and they can be justly proud that they have had a part in this transition.

The proper control of dealers in foods can be had, I believe, by means of a licensing system, making the license fee nominal, but placing with it the power of refusal and revocation. Our sanitary laws should require every person who wishes to handle foods in any way to have his place thoroughly inspected before he is permitted to enter the business and his license withheld if the building or room is not suitable for maintaining in a strictly sanitary manner and a license only issued when it is possible to comply with the law in every detail. I believe every official who had had the enforcement of a sanitary law will agree that if we are to maintain a safe food supply the strict enforcement of the law is of necessity and that eternal vigilance will always be the price we must pay.

WEIGHTS AND MEASURES

A decade has passed since Iowa took up in earnest the subject of properly regulating weights, measures and trade practices in general involving these mediums of purchase and sale. True, there was some effort made previous to that time to take care of trade conditions, but not until 1913, when the legislature enacted a law that was to make possible much needed reform in the various branches of trade dealing in essential commodities through the enactment of the weight and measure law. The dairy and food commissioner was charged with the enforcement of this act, the duties of which were to regulate and supervise all matters wherein questions of quantity were involved, also the inspection of scales, weights and measures.

That this remedial action came none too soon is well known, and the beneficial value of such a department as a protective agency has manifestly grown with the general trend of business and constant changes in economic conditions.

Since the enactment of the weight and measure law in 1913 steady advancement has been made year by year in every branch of the work. Special investigation due to various causes are, of course, always in order. No year passes without many of them claiming our attention, and the past year was no exception. Conditions in the various branches of trade must be continually looked into in order to make sure that the persons engaged in them are living up to the law's requirements. If at any time a particular business is not centered upon, it is because conditions in that line of trade are satisfactory to the department. However, just as soon as any tendency is discovered to overstep the bounds of honesty and fair dealing, no time is lost in getting back to that particular branch.

There are extensive commercial enterprises which must always be carefully watched, such as those dealing in coal, ice, groceries, meats and co-related lines of trade. Great stress is laid on the enforcement of weight and measure laws, since they affect the class of citizens who can least afford to protect themselves. Some of the activities are enumerated here in order that the public may know of the work of the department.

It is the duty of this department to make an inspection of scales, weights and measures wherever the same are kept for use in connection with the sale of merchandise or other commodities sold by weight or measurement. The testing of the many thousands of wagon or truck scales and gasoline pumps and measuring devices requires much time and labor. The reweighing of commodities in the various stores and of loads of coal as well as checking up the peddler or huckster, which has always given us trouble. The very nature of the way their business is carried on makes them an object of suspicion. These "roamers" make victims of the rich and poor alike; they have no fixed places of business, frequently drifting from town to town. They have many tricks at their disposal, as their enterprises usually are of the seasonable variety, their efforts are generally directed toward making a clean-up in the short time they have. Their stocks in trade may be anything from an orange to a ton of coal, though most of them seem to take very kindly to the produce business, for what reason can best be judged when it is realized that in practically no other line of trade is there such opportunity to defraud. It is difficult to realize why the people in general put so much faith in them instead of consistently dealing with reputable merchants with established locations. So-called bargains, which the people think they receive from peddlers are, as a rule, more costly in the end than were the goods purchased at a store. Storekeepers are not so apt to stake their reputations on questionable practices.

The wagon scale or five-ton scale is being replaced by the heavy truck scale, ten-ton and larger. With so much heavy trucking by motors, some of which are almost as large as small freight cars, carrying loads that require scales of large capacity to handle, larger scales are being installed all over the state.

While in most cases incorrect scales are found weighing against the consumer, frequently a scale is found weighing against the dealer.

In a recent inspection of coal scales a scale was found that was giving the consumer 1,200 pounds for each 1,000 pounds. When the inspector discovered the error and notified the dealer he was frantic with grief and endeavored to call in all wagons which were out delivering coal from his bins. The scales were immediately repaired and hereafter no patron of his place of business will get more coal than is paid for.

We find material shortage from time to time in checking up the coal dealers. We have had a number of cases against them; in some cases they plead guilty, in others they stood trial. In one case we had recently the dealer plead not guilty. He was short 525 pounds on a one-ton load. His defense was that the wind blew it away, therefore he was not responsible for the shortage. The judge found him guilty and fined him \$15.00 and costs; he should have had the limit.

The inspector, in another instance, made an inspection of a scale and found the same to be 40 pounds light on each 1,000 pounds. They were condemned. They were to weigh 250 head of fancy beef cattle over these scales that day. The price being paid for these cattle was 12 cents per pound and the cattle averaged 1,000 pounds per head. The parties selling these cattle would have lost 10,000 pounds or 10 head of cattle at 12 cents per pound, amounting to \$1,200.00, a fair day's work for the buyer.

The inspectors find new scales that are not properly installed. By making the corrections the inspector protects the dealer as well as the public.

A unique bushel measure, made of galvanized tin, was confiscated from an apple peddler by the inspector. The measure is guaranteed to cheat each customer out of at least one-third $(\frac{1}{2})$ of a bushel of apples every time it is used. The peddler had taken a heavy hammer and banged great dents in the sides of the measure; these dents took up the space which should have been filled with apples when a bushel of the fruit was sold. Housewives should purchase apples by the pound and not by the measure. They should insist on getting fortyeight (48) pounds for a bushel. Many of the measures used will hold only about thirty (30) to forty (40) pounds of apples.

The department continues to receive complaints regarding incorrect scales and requests for scale inspections. During the year ending October 31, 1922, there were 171 requests taken care of,

BREAD

We still receive complaints about loaves of bread not being branded with the net weight, also loaves being misbranded, in that the loaf does not weigh as much as is stated on the wrapper. We have continually tried to remedy this practice, with only partial success. The bakers state that the frequent fluctuation in the price of flour compels them to change the size of the loaf. Wrappers are purchased in large quantities branded with a certain net weight. Then if the size of the loaf is reduced the baker, in many cases, continues to use the same wrapper, leading the consumer to believe he is receiving a larger amount of the bread than he is.

We believe that the only remedy for this condition is a law regulating the size of all loaves of bread. This is concurred in by the United States Bureau of Standards and many of the other states. A committee consisting of weight and measure officials and representatives of the baking industry are drafting a uniform bread law as a guide to states desirous of such a law. Several states already have a standard bread law, upheld by higher courts.

GASOLINE PUMP INSPECTION

The inspection of gasoline pumps is one of the important phases of our work. During the year ending October 31, 1922, there were 1,682 gasoline pumps inspected, of which 19 per cent were found incorrect; 950 measures, of which 64 were incorrect. During the last year there has been an increase in number of gasoline pumps installed, new filling stations springing up all over the state.

Where the inspector finds a gasoline pump not delivering the correct amount, it is condemned for repairs. In one case the operator continued to use the pump, which was measuring one-half $(\frac{1}{2})$ gallon short on each five (5) gallons. Charges were filed, the defendant plead not guilty, demanding a jury trial. The jury found him guilty and he was fined \$50.00 and costs.

Refiners and marketers of gasoline are beginning to understand what accuracy means to them in the way of good will and increased sales. They are very anxious that all gasoline pumps and meters are accurate. We have been very much encouraged by the co-operation which has been given the department by the oil companies and the various manufacturers of these devices, with the result that the measuring devices have been remodeled and improved upon.

The law provides that all gasoline pumps and meters shall be licensed, the fee being \$3.00 per year.

The revenue received for the gasoline pump licenses for the year ending October 31, 1922, is \$12,867.00.

During the year ending October 31, 1922, the department has inspected 3,217 "heavy" scales, that is, scales used by grain elevators, coal mines, coal dealers, railroad stock scales, sugar refineries, canning factories, etc.; 279 of this number were found incorrect and were condemned for repairs; 269 of these have been repaired or new ones installed to take the place of the old ones. The revenue received by the state for the inspection of these scales amounted to \$9,870.24.

The law provides an inspection fee for all scales over 500 pounds up to and including 4,000 pounds capacity, which is \$1.00; over 4,000 pounds up to and including 21,000 pounds capacity, \$3.00 each; scales over 21,000 pounds capacity not including railroad track scales, \$5.00 each; railroad track scales, \$10.00 each; all hopper or automatic scales, \$2.00 each.

The revenue received by the state for scale licenses is \$6,108.00.

The inspection of platform, counter and cream scales is also an important part of our work. Our records show there were 1,386 platform scales, 4,414 counter scales, 3,826 cream scales tested. Of the total number of these scales, which is 9,626, 505 were found to be incorrect, the same being condemned for repairs. A great many of these were found to be weighing in favor of the public. These scales have either been discontinued from use, replaced with new scales or repaired.

The total revenue received by this department, which is \$28,845.24, was turned over to the state treasurer and credited to the general fund of the state. This department is operated by a direct appropriation of the legislature and cannot use any of the fees collected. 40

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

	1 bushel pounds	1 peck pounds	Ounces 1 quart
Apples	48	12	24
Apples Dried	24	6	12
Apples, Dried. Alfalfa Seed	60	15	30
Reales	48	12	24
Barley	56	14	
Beans, Green,			28
Beans, Dry	60	15	30
Beans, Linna	56	14	28
Beets. Bluegrass Seed	58	14	28
Ringersan Read	14	336	7
Bran	20	5	10
Bromus Inermis.	14	316	7
Dronius Aneruis.	1 50		1
Broom Corn Beed		123/2	25
Buckwheat	48	12	24
Carrots,	50	1235	25
Castor Beans	50	1256	25
Charcoal	20	5	10
Cherrina	40	10	20
Course Band	60	15	30
Cover Seed			
Coal	80	20	40
Cole	40	10	20
Corn, Ear	70	1756	35
Corn, Unhusked	75	1834	3735
Corn, Shelled.	56	14	28
Corn Meal.	48	12	24
Cucumbers.	48	12	24
Emmer	40	10	20
Flax Seed.	58	14	28
Grapes Sterns	40	10	20
Hemp Seed. Hickory Nute Hulled	44	11	22
Hickory Note Hullad	50	1234	25
Hungarian Seed	50	1236	25
Aungarian deed			
Kaffir Corn	58	14	28
Lime.	80	20	40
Millet Bord	50	1256	25
Oats	32	8	16
Onione	52	13	28
Onion Two Sets	28	7	14
Onlon Battom Cate	32	8	16
Onload Corres Band			
Orchard Grass Beed	14	31/2	.7
Osage Orange Seed	32	8	16
Parsnips	45	1134	2235
Peachest	48	12	24
Peaches, Dried	33	836	1636
Peanute	22	53%	11
Date	45	111/4	223%
Page Teshallad		1256	25
Des Think	50		
THE AVERTICAL AVERTICAL AVERTICAL AVERTICAL AVERTICAL AVERT	60	15	30
Pears Deates Pears, Deateslied Pears, Deateslied Plums Pop Corn, Cob Pop Corn, Shelled Portecore	48	12	24
Pop Cora, Cob	70	1736	35
Pop Corn, Shelled	56	14	28
Potatoes	60	15	30
Oninces	48	12	24
Warns Saud			25
Rape Seed	50	123/2	
Acutop beeu contraction and a second	14	33%	3
Rutabagas	50	15	30
Rye	58	14	28
Salt	80	20	40
Sand	130	3234	65
Shorts	20	6	10
Shorta. Sorghum Seed			25
Cooling	50	1236	00
Spelts.	40	10	20
	85	1236	25
Sweet Corn	00	1254	25
Sweet Potatoes.			223.6
Sweet Potatoes.		1116	
Sweet Potatoes. Timotby Seed	50	1134	25
Sweet Potatoes. Timothy Seed Totnatoes.	50 55	1355	25
Sweet Potatoes. Timothy Seed Tomatoes. Turnips.	50 55 50	1355	25 2734
Sweet Potatoes. Timothy Seed Totnatoes.	50 55	1355	25

1 dry qt.---67.2 cu. ins. 1 liquid qt.--57.75 cu. ins. A dry qt. holds 14 per cent more than a liquid qt. Dry commodities must be sold by weight or dry measure,

CANNING INDUSTRY OF IOWA

The canning industry of Iowa is a larger agricultural industry than is realized by those not closely associated with it. In view of this fact the following figures and information will give the people of this state an idea of its importance and magnitude.

The principal products packed in this state are: Sweet corn, tomatoes, pumpkin, kraut, and the winter lines of pork and beans, hominy, lima beans, kidney beans, etc. Other products canned in commercial quantities include green beans, beets, spinach and cherries.

Iowa leads the world in canned sweet corn production. The volume of canned tomatoes is small as compared with the output of



CORN ON THE WAY TO CANNERY.

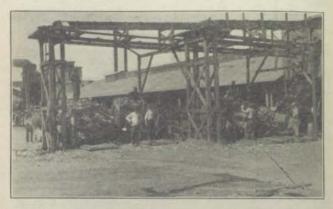
some of the principal tomato packing states, but the quality of Iowa tomatoes is superior. The tomato, while native to warmer climates, grows to perfection here and judges readily concede that tomatoes grown north of the frost belt are superior in texture and flavor. Accurate statistics on pumpkin packs of other states are not available, but the extent of the pumpkin pack of Iowa has sufficient bearing on the market of the country to indicate that Iowa is one of the principal states in the production of this item.

REPORT OF COMMISSIONER

DAIRY AND FOOD DEPARTMENT

While the volume of the sweet corn pack has reached the limit under existing freight rates, at least for the time being, there seems to be room for increased production of most of the other products.

The corn canning industry is suffering as the result of heavy overproduction in 1920, when the Iowa corn pack reached the total of 3,246,000 cases or 77,904,000 cans. This pack was produced at peak prices, for corn, cans, cases, labor and all other items going into cost of production, and had to be marketed on the falling market for food products which characterized the year 1921. The 1921



UNLOADING.

pack was very light, but there has been a partial recovery this year. The figures for production and market value for this year are, however, not yet back to normal.

Iowa normally packs one-sixth of the total sweet corn of the country. With exception of the years 1913, 1915, 1917, and 1921, Iowa has held first place in production, the Illinois packs for each of these years slightly exceeds the Iowa packs.

This year there were 42 plants operated for canning corn; 11 for tomatoes; 6 for pumpkin and 4 for other products.

The 1922 corn pack was 1,943,000 cases. The tomato pack was 163,819 cases.

The value of the corn pack at prevailing retail prices is \$6,000,000.

The value of the pack of canned tomatoes exclusive of pulp and catsup on the above basis is \$607,676.00; the pulp and catsup pack will approximate \$1,252,256.00 in value.

The annual expenditure for canning labor will exceed \$1,000,000. Acreages in Evergreen corn under contracts with canneries for the past four years together with approximate average price per ton paid :

Year	Acres	Per ton
1919		\$16.00
1920		14.00
		9.00
1922		7,00

The average price per ton paid in 1914 was \$7.00; in 1915, \$8.00; in 1916, \$8.00; in 1917, \$12.00; in 1918, \$14.00.

Prices paid at various plants will vary from these prices by allowances for haul, unloading, etc.



HUSKING ROOM.

IOWA-NEBRAKA CANNERS ASSOCIATION

The Iowa Canners Association last year adopted a new constitution and by-laws and changed its names to Iowa-Nebraska Canners Association to include the four active Nebraska canneries. Eighty-one per cent of the 1922 Iowa pack or 1,571,000 cases, was canned by Iowa members of the association.

The activities of the Iowa-Nebraska association might be grouped under three heads—general association activities, technological, and sanitary inspection of member plants. General association work includes market survey and extension, freight rates, promotion of

REPORT OF COMMISSIONER

DAIRY AND FOOD DEPARTMENT

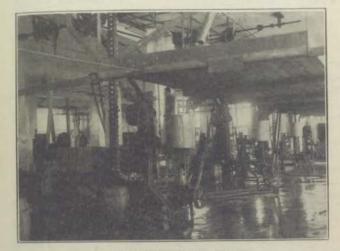
uniformity of grades and standards of quality, business ethics, trade statistics and data on acreage, production and stocks and their movement. Technological activities include co-operative work on problems affecting production and quality such as improving varieties of sweet corn, with respect to yields per acre and quality; seed supply; farming; improvement of canning processes; machinery and equipment problems; bacteriology and technology of sterilization or processing; and container and shipping package difficulties. The



CANS READY FOR THE COOKER.

sanitary inspection of Iowa canneries by the association itself was instituted in 1919 as a division of the activities of the National Canners' Association. In 1922 the Iowa-Nebraska Canners' Association took over this work in Iowa and Nebraska. Under this service plants of members are inspected both before and during the packing seasons to see that the sanitary rules of the association are complied with. This self-imposed and self-conducted inspection has the advantage that inspections are conducted by a cannery specialist who is thoroughly familiar with all details of approved cannery construction, canning machinery, cannery operations, and cannery problems. It is open to the objection that it is applicable to members only and that the association has no police power with which to enforce compliance with its sanitary requirements, and that the association and its inspectors are legally powerless to enforce regulations against any canner who may be inclined to ignore the inspector's recommendations or instructions. During the past season the department placed one man on the inspection of canning factories so that a general survey could be made and a knowledge of the methods and equipment used by each factory obtained.

His report shows that the majority of the canning factories are properly equipped with buildings and machinery to handle their products in a sanitary manner. Several were found, however, which



STEAM PRESSURE COOKERS.

were operating in old buildings with no proper means to dispose of waste matter, or of keeping floors and utensils clean. We expect next year to make a preliminary inspection of these factories and require such improvements to be made that will enable them to handle their products with strict regard to the legal requirements before the season opens. In case such requirements are disregarded it will be necessary to revoke their licenses which give them authority to operate. The inspection shows that the present sanitary law is too general in its requirements for canning factories.

Written as it is so as to render it applicable to bakeries, confectioneries, packing houses, slaughterhouses, dairies, creameries, res-

44

taurants, hotels, groceries, meat markets, and all other places where food is manufactured or stored, our sanitary law neither goes into sufficient detail nor is sufficiently specific to meet the needs of a cannery law. Under the sanitary law canners have difficulty in understanding what is required and the determination as to whether or not certain practices are in violation of the law is quite frequently not possible. To remedy this difficulty the sanitary law should be amended by adding specific requirements for canning factories.

Outbreaks of food poisoning which have occurred in the last few years have stimulated investigations as to their cause and the National Canners' Association, under the direction of Dr. Bigelow, has been active in this work. Other noted workers in this field are: Dr. M. J. Rosenau, of Harvard Medical School; Dr. K. F. Meyer, of Hooper Foundation for Medical Research; Dr. J. C. Geiger, of the U. S. Public Health Service; and Dr. E. O. Jordan, of the University of Chicago. Much of their work is completed, and among their conclusions are the following:

 That many cases of illness are wrongly diagnosed as "ptomaine poisoning."

2. That of the total 41 known outbreaks of Botulism, which have occurred in this country, but 15 have shown commercially canned foods as the cause; most of the rest were caused by improperly prepared home canned foods or home canned foods which did not keep.

3. That Botulism cannot result from consumption of properly packed commercially canned foods.

The following shows comparatively the total sweet corn packs of commercial canneries for the past five years expressed in cases:

	1917	1918	1919	1920	1921	1922
lowa Illinois. Maina Ohio Maryland New York. Wiscomain Indiana Minnesois	898,498 1,200,131 2,001,544 257,296	2,300,241 2,199,344 1,112,912 1,584,064 2,032,944 488,912 372,304 612,888 209,136	2,496,000 2,225,000 1,652,000 1,360,000 3,081,000 1,014,000 635,000 586,000 455,000	3,246,000 2,271,000 1,588,000 1,544,000 2,217,000 829,000 829,000 861,000 643,000	1,190,000 1,711,000 911,000 850,000 1,130,000 564,000 576,090 709,000 573,000	1,959,000 1,539,000 1,066,000 1,073,000 1,944,000 616,000 625,000 665,000 898,000
Missouri. Michigan Delaware. Vermont. Peonsylvania	\$59,087	389,295	777,000	754,000	440,000	701,000
All other States	306, 188	419,400	265,000	487,000	189,000	233,000
Total	10,802,952	11,721,880	13,550,000	15,040,000	5,843,000	11,419.000

CANNING PLANTS

The following is a list of the Iowa canning companies showing locations of plants and products packed in 1922:

KEY: A-Sweetcorn: C-Tomatoss; E-Green beans; F-Fumpkin; I-Hominy; Z-Lima beans; K-Ersuit; N-Succotant; Q-Beets; b-Cherries; i-Pork and beans; J-Spinach; p-Pulo; r-Red kidney beans: t-Catory; Sp-Specialties; (N.O.)-Not operated 1922. *Designates principal office of companies operating more than core plant.

Company	Location	Manager	Products packed
Ackley C. Co.	Ackley	T. J. Gilloon	A
Ames C. Co. Anderson Bros. Co.	Ames	Sid R. Clife	A
Anderson Bros. Co.	Oskaloosa	Jim DeBoard	C
		Jim DeBoard J. W. Cuykendall	A-F
Anderson C. Co	Audubon	R. J. Loveland	A
Audubon C. Co. Baxter Bros. Co. (office, Bruns-			
BEXTER Driver Courses warmen	Wapello	J. P. Baxter, Jr.	A.N
wick, Me.) Belle Plaine C. Co	Belle Plaine	A. C. Geiger	A
Belle Finine G. Co.	Brighton	W. O. Schafer	p-1
Brighton C. Co Cambridge Pkg. Co	Cambridge	W. O. DEBMOE	0.0.1
Cambridge Fag. Co	Cedar Falls	H. S. Gilkey	Lines.
Cedar Falls C. Co	Cedar Rapida	E I Berly	C-E-O-b
Cedar Hapids C. Co.	Center Point	E. J. Bealer	C-D-C-O
Center Point C. Co		R. W. Brookman	2
Charksville C. Co	Clarksville	W. Strippel	A
L. E. Denmire	*Montrose	L. E. Denmire	G
L. R. Denmire	Farmington		G
L. E. Denmire Dester-Farmer C. Co. Dester-Farmer C. Co.	Sandusky (mail Montrose)		0
Dexter-Farmer C. Co.	*Dexter	E. H. Gunter	A-F
Derter-Farmer C. Co.	Van Horne	Frank Woods, Supt	A
Elgin C. Co	Lign	Al Schuri	A
Gibman C. Co.	Gilman	E. W. Virden A. G. Beamer	(N.O.)
Gilman C. Co Glenwood Fruit Pro	Glenwood	A. G. Beamer	C
Grimes C. Co	*Grimes.	W. J. Stewart	A-F-I-J-det
Calatian C. Co	Altoona	*********************	(N.O.)
Grimes C. Co. Grimes C. Co.	Pella	E. Hardy, Supt	A-F
		L. B. Reeves, Supt.	A
Grimes C. Co.	Perry. Rockwell City	Roy Chard, Supt	Â
Grimes C. LO.	Colorall	Geo. R. Kelley	2
Grinnell C. Co. Grinnell C. Co. Growers' C. Co.	Grinnell Council Bluffs	cieo. Tr. reniok	(N.O.)
Growers' C. Commenter	Council Bluns	L.E. Kinney	(N.O.)
Grundy C. Co. Guttenberg C. Co.	Grundy.	L. E. Rinney	
Guttenberg C. Co.	Guttenberg	C. W. Lake. F. J. Wakerwarth	1
Independence C. Corporation	Independence	F. J. Wakerwarth	2
lows C. Co	"Vinton	G. E. Carrier. Ben McGirr, Supt. C. J. Powell, Supt.	in the second
Iowa C. Co Iowa C. Co	Garrison	Ben McGirr, Supt	(N.O.)
Iowa C. Co	La Porte	C. J. Powell, Supt.	A
Iowa C. Co. Iowa City C. Co.	Shellsburg	Harry Denger, cupt	A
Iowa City C. Co	Iowa City	Paul Reed	A
Inwa Valley U. Co.	Marcigo, and reverse allers	B. S. Schwartsbaw O. C. Mitchell W. V. D. Mans	A
Kelley C. Co	Waverly	O. C. Mitchell	A
Keokuk C. Co.	*Keokuk	W. V. D. Mans	C
Keokuk C. Co	Ft. Madison		C
Lake Mills C. Co		Irving Nelson	A .
Merrell C. Co		G. W. Kirtley	A com
Marshall C. Co.	"Marshalltown	Merritt Greens, Jr	A-C-E-F-L-K-N
branches des Protectulations of Large Large			J-i-j-p-r-t-Sp.
Marshall C. Co.	Hampton		(N.O.)
Marshall C. Co	Roland	Joe Thompson, Supt	A
Montinello C. Co	Monticello	H. M. Carpenter	(N.O.)
Montheeuo C. Commissioner	Montherin	L. E. Shannon, Supt	
Otos Food Pro. Co			1
Red Oak C. Co		A. R. Tracy. F. W. Castleman.	2
tiverside C. Co	Hamburg	F. W. Castleman	
ine City C. Co,	*Bas City	M. W. Jones	
ias City C. Co	Storm Lake	B. Marchant, Supt	A.
at City C. Co. at City C. Co. tory Farmer C. Co.	Story City		A
		J. LeRoy Farmer	
Tripoli C. Association	Tripoli	L. W. Stagner	A
Virden C. Co.	Forest City		A
Pripoli C. Association Virden C. Co V. F. Farmer C. Co	Mt. Pleasant	V. F. Farmer.	A
Waterloo C. Co	"Waterloo,	S. C. Bell	A
Waterloo C. Co Waterloo C. Co	Dyeraville.	O. H. Lake, Supt.	A
Waterloo C. Co.	Dyart	Tors Evans, Supt	A
Weir C. Co Ziegler C. & Pres. Co.	Toledo, Muscatine.	H. V. Weir.	i i

CONDIMENTAL STOCK FOODS

The law regulating the sale of these products requires, among other things, that the manufacturer pay an annual license of \$100. Since the passage of this law several years ago there has been a contention by some of the manufacturers of these products that if their products were not labeled or represented as a food they were not required to pay the license.

The department has had several cases in the courts to settle this matter, but has never been able to get a decision in the higher courts which would establish any certainty as to the requirements for this class of products.

The result is that out of fifty-three manufacturers of these products in the state, but twenty-six have paid their licenses, and the rest refuse on the ground that the law does not include their products. It is unfair to these twenty-six who pay this license to permit the other twenty-seven to operate without paying.

I would recommend that the legislature amend this law in such a way as to clarify the situation and enable the department to enforce it without any misgivings as to the decisions of the courts. The law should define this class of products in such a way as to leave no question as to who is required to pay the license.

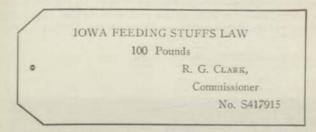
COMMERCIAL FEEDING STUFFS

A list of commercial feeds analyzed by the department is given in the following table. The table shows the analysis as claimed by the manufacturer and that found by the department.

The purpose of the law is to require all commercial feeds which are offered for sale in Iowa to be registered with the department. This registration shows the analysis of the feed and a list of the ingredients of which the feed is composed. The law protects the consumer against misbranded, adulterated or short-weight feeds. It likewise protects the manufacture of honest feeds against dishonest competitors. The feeder is thereby enabled to select the best feeds for his purpose by reading the label on the package.

Registrations when made are permanent, but can be changed upon written request by the manufacturer.

The tax tag must be on every package of feed offered for sale, except wheat bran, shorts and middlings, rye bran, shorts and middlings, and buckwheat bran, shorts and middlings, manufactured in this state. It is a violation of the law if this tag is not properly attached to each sack of feed. These tax tags are printed in 25-pound, 50-pound, and 100-pound denominations and are furnished by the department at 10 cents per ton.



This is the Iowa official tag for a 100-pound package of feed.

Some manufacturers frequently do not attach the tax tag to each sack, but instead put the required number of tags in the car of feed expecting the purchaser to place them on each sack. Often the dealer fails to do this and in some cases claims he saw no tags when he unloaded the car. The law requires the manufacturer to place these tags on each sack and he should not ask the dealer to do it for him, as the manufacturer is liable if the tags are not on each sack.

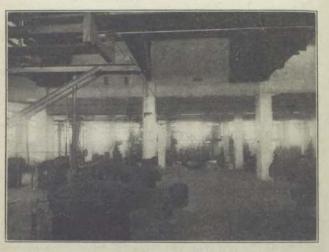
When the feeder has reason to doubt the correctness of the branding on the feed he buys he may take a fair sample of the feed and send to the Dairy and Food Commission with \$1.00 and an analysis will be made for him. Samples should be taken from several sacks and mixed well together and a portion of this submitted for analysis. The department cannot make analyses for manufacturers. They should obtain this from their own chemist or a commercial chemist.

The law makes no provision for the payment of a refund by the manufacturer, to purchasers of feeds which have been found to contain a less amount of protein than is stated on the label. Where there is no apparent intention of the manufacturer to violate the law, we will calculate the amount of refund on the basis of the protein deficiency to be paid to the purchaser. If the purchaser is a dealer it is understood that he will make a proper refund to each of his customers to whom he has sold some of the feed found below the guarantee. Payment of the refund, however, will not restrict the department from taking such legal action as it may deem advisable.

The analyses of feeds collected by the inspectors and reported in the following table shows that the manufacturer is observing the law

50

in all but a few cases. The greatest discrepancy is found in tankage. This is due no doubt to a failure of some manufacturers to have each lot of tankage analyzed before it leaves the factory. From samples of rendering house tankage submitted to the laboratory it is our opinion that very little of this product is suitable for feeding tankage. Much of it should be used for fertilizer.



Filling the Cans-An interesting part of the job of putting up Iowa's sweet corn crop.

REPORT OF COMMISSIONER

1			Found	23.09 20.80 20.87 20.87	18.70 21.90.	10.70 8.00 10.77	2.85 2.91 5.291 5.291 5.291 5.295 5.205 5.	
		Fiber	Claimed	20.00 20.00 26.00	25.00	7.00 8.50 10.00	3.39 3.00 3.00 5.50 5.50 11.00 11.00 11.00 11.00 11.00 11.00 6.50 6.50 6.50 11.00 10	
	GE OF	-	-	Found	2.56 2.41 1.98	3.07	7.61 5.02 6.59	4,84 11,111 4,725 6,737 5,537 5,536
	PERCENTAGE OF	Fat	Claimed	1.00	ક્ષક	5.00 4.00	3.87 3.80 3.80 3.80 3.80 3.80 3.80 3.80 3.80	
	P	ein	Found	15.44 14.04 13.62 9.58	8.63 12.25	26.38 21.00 25.00	12,0,07 12,7,19 12,7,19 16,7,19 16,6,10 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 16,6,0 17,7,10 16,6,0 16,6,0 16,6,0 16,6,0 17,7,10 16,6,0 16,0,0,0 16,0,0,0 16,0,0,0 16,0,0,0 16,0,0,0,0 16,0,0,0,0,0,0 16,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	
		Protein	Claimed	10.00 10.00	8.00 10.00	25.50 20.00 25.00	15.39 16.00 18.00 18.00 18.00 14.000	
ALFALFA MEALS		MANUFACTURER		Des Moines Flour & Fred Co. Le Retens Millan Mol. Co. T. R. Hord Allaha Mol. Co. Grain Belt Milla Company MOLASEES FEED	Grain Belt Mill Company. M. C. Peters Milla Company. HOG FEED	Arme Manufacturing Company Arme Manufacturing Company Ed. J. Bular Company Ed. J. Bular Company WHEAT FREDS	Larense MIL And Pear Comparison And Pear Comparison Set Learn Mile Compary Set Learn Mile Compary Set Learn Mile Compary Set Learn Mile Compary Set Affer Affer Affer Affer Set Affer Affe	
				Alfalfs Meei Afadfs Meei Afadfs Molaases Alfalfs	Molasses Feed	Hog Feed Hog Feed Hog Feed	What Shorts West Shorts West Shorts (atty) West Shorts (atty) West Shorts and Seren- man Shorts and Seren- Bras Bras Bras Bras Bras Bras Bras Bras	
		Lab. No.	N	3417 1371 1373 1423	33	1001 1627 797	822 842 842 842 842 842 842 842 842 842	

			DAIRT	
	Fiber	Found	9.85 7.25 4.91 6.80 6.80 6.21	8,50 8,50 7,77 7,77 8,50 8,50 8,50 8,50 8,50 8,50 8,50 8,50
	P.0	Claimed	10.00 8.80 7.00 7.00	87.00 17.00 17.00 17.00 17.00 17.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 10
PERCENTAGE OF	Fat	Found	6.80 9.88 9.88 9.88 9.88 9.88 9.88 9.88 9	8.83 8.83 8.84 8.84 8.85 8.85 8.85 8.85 8.85 8.85
PERCEN	34	Claimed	885588 885588	
	Protein	Pound	17.06 17.00 15.00 16.90 14.92	201 (10) (10) (10) (10) (10) (10) (10) (1
	Prof	Claimed	15.00 16.25 16.25 16.26 16.60	24000 2400000000
	MANUFACTURER		Orchietta Milling Company Orchietta Milling Company Eastington Milling Company Latentron Mill & Elsevistic Company Centerninal Mill Company MISC ELLAN ROUS	Squarer Outo Company. Sector Control Company. Sector Control Company. Sector Control Company. Sector Cont Company. Management Sector Sect
	KIND		When Yeed When Michings When Michings When Shorts When Shorts	Dry Mandi Corn Mandi Corn Mandi Corn Mandi Mandi Polity Freei Freei Freei Freei Freei Freei Freei Grand Lanseed Cate Cornal Lanseed Cate
	Lab. No.		S OF THE SEC	100 100 100 100 100 100 100 100 100 100

REPU	RT 1	010	COMM	18810	$N = E_{11}$

00.00 00.00 00.00

80.08

8.88.8

80.00 80.00

54.05 61.32 62.14 55.88

8.88

Geo. A. Bornel Company. Decker & Som Benedict Frour & Feed Company Edw. J. Butler Company.

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ALFALFA MEALS-Continued

INSECTICIDES AND FUNGICIDES

The law regulating the sale of insecticides and fungicides in Iowa became effective in 1917 and since that time fruit raising has become an industry of considerable proportions. The orchardist and the farmer with only a small orchard has found that without proper spraying of his fruit trees the crop is of little value.

The State Horticultural Association and the extension service of the state college has been instrumental in instructing fruit growers how to care for their trees and in the use of proper spraying materials. In order to determine the quality and the truthfulness of the labels on these products the department has analyzed a large number, the results of which are found in the following table. Arsenicals must contain their arsenic in combined form and too much water soluble arsenic must be avoided, as it will affect the foliage. It is the chemical compounds of arsenic which adhere to the foliage and wood of the tree that destroys the insects and fungi.

It will be noted that there is very little discrepancy between the branded analysis and that found by the chemists of the department.

86888446888 1222232322 Water Soluble Arsenie, per cent - and Water Solo 8882833388 22222222222 10 10 10 10 10 10 10 10 10 INSECTICIDES AND FUNCICIDES ANALYZED BY DAIRY AND FOOD COMMISSION 22222222222 Oside, 12 88338828888 2 93893952 enic Oxide, X222222222233 111220121 22222222222222 11 Arne Arsen Total. 888888888 888888888 T'otal. 888888888 2222222222 8888888888 BRESSESS. 10 MANUFACTURER RUND

REPORT OF COMMISSIONER

	See a second of constructions and	Calcium Polyaniphide per cent	yrsulphides cent	Calcium Theosulphaton	sosuiphates.	Pree S	Free Sulphur, per cent
NIND	MANUTALIURBE	Claimed	Found	Claimed	Found	Claimed	Found
me Suphur ans Suphur ans Suphur ans Suphur ans Suphur ans Suphur ans Suphur Subhur ans Suphur Subhur	Sharetia, Williama Co. Sharetia, Williama Co. Resear, Dikotti Wilate Laoi Works) Resear (Dorin Wilate Laoi Works) The (Didda Company The (Didda Company) The (Didda Company) The Company Co. Borran Dar Co. (Stota Falls, S. D.) Diddo Rac Spray Co.	61.00 61.00 61.00 711.00 712.00 710.00 712.00 710 710.00 700 700 700 700	52, 36 51, 71 54, 00 6, 90 6, 90 75, 99 278, 05 278, 05	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	8,22 4,70 4,70 6,40 6,40 1,11 2,99	80000 80000 80000	16.23 16.18 25.44 233.000 233.000 19.95
Total Sulphur	and a second state of the second seco		******			25.00	31,01
oordaau Areenate	The Glidde Co. Hermisystek & Co. Michigan (Yomur Co. Rogens (Dirroit White Level Co.)	Water Soluble Arennio. Total Arennous Oxide Paris Green. Water Soluble Arenne Total Arenne. Total Arenne.	Dodde	Claimed Claimed Claimed Claimed Claimed	21.00 7.50 1.00 24.00 3.00	Found Found Found Found Found Found Found	29-00 1.00 1.00 1.01 1.01 1.01 1.01 1.01 1

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VIOLATIONS OF THE DAIRY LAW

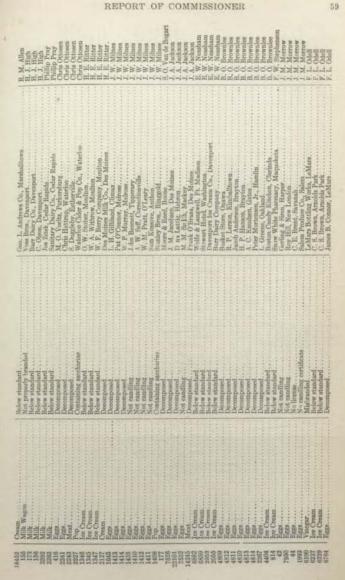
Bold for	Violation	Prosecution Against	Inspector
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T. A. Clarke T. A. Clarke T. A. Clarke T. A. Clarke T. A. Clarke	T. A. Clarke M. E. McMurray M. E. McMurray F. L. Odell F. L. Odell		F. L. Oddl F. W. Neadhann R. W. Neadhann B. W. Neadhann E. W. Neadhann B. W. Nead
 S. Capellin, Downson and Science Science	Change Taylor, Ekolarytta, Bary Coldman & Co., Des Moine Larry Coldman & Co., Des Moine Larry Coldman & Co., Des Moine Larry Coldman & Co., Des Moine Geo. E. Sajal, Marcus	P. M. Williams, Auron. Autom. Automatic W. D. Pattera, Chercher Mann F. Caal, Groener, Chercher Sowald & Orthon, Chercher Sowald & Orthon, Chercher E. F. Arp, Shirth Jake	W. F. Matchat, Larehood
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REPORT OF COMMISSIONER

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	DAIRY AND FOOD DEPARTMENT
Inspector	H. R. Forenster H. E. Forenster H. M. Alten F. M. Alten K. M. Alten K. M. Alten K. M. Alten K. M. Alten K. M. Alten
Prosecution Against	P. E. Based, Yan Cheve down A Upgens, Thisloth, G. W. Abgreens, Fandensen, G. W. Abgreens, Fandensen, G. W. Abgreens, Fandensen, Allens Stronden, Garrieran, Allens Stronden, Garrieran, A. S. Gaargo, Dyastra, A. S. Musher, Meistan C. G. M. Muchartz, Maradilloom, Earner Jacksen, Weilsten C. G. M. Muchartz, Maradilloom, E. J. Mushertz, Maradilloom, E. Muthater, Maradilloom, E. Muthater, Maradilloom, E. Muthater, Maradilloom, Bastra, Commery Co., Nover, A. S. Statton, Santon, A. S. Washer, Manadalloom, A. S. Washer, Manadalloom, Marado, G. S. Weit, Bastra, A. S. Washer, Maradilloom, Marado, Garra, Maradilloom, Marado, J. S. Wheele, Maradilloom, Marado, Santon, Maradilloom, C. Marado, Santon, Marado, Santon, Maradilloom, M. H. Washalloom, Marado, Santon, Maradilloom, M. Bastrad, Cale, Maradilloom, M. Bastrad, Cale, Maradilloom, K. Maradallowa, M. Maradallowa, K. Maradallowa, M. M. Maradallowa, K. Maradallowa, M. M. Maradallowa, K. Maradallowa, M. M. Maradallowa, K. M. M. Maradallowa, K.
Violation	Over-ensiting Baloock Test Over-ensiting Baloock Test Sol forenes Sol
Sold for	Cream Blaction Cream Place Cream Blaction Cream Bla
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VIOLATIONS OF THE DAIRY LAW-Continued

Nç.	Sold for	Violation	Prosecution Against	Inspector
1687	Eggs	No license	Albert Scheffer, Carmel	F. L. Odell
1658	Ecra	No license.	P. Prince, Sr., Lebanon	F. L. Odell
1640	Eggs.	No license	H. H. Bomgaars, Middleburg.	F. L. Odell
1689	Eggs	Not candling.	P. Prince, Sr., Lebanon	F. L. Odell
1690	Ears	Not candling	Garret Klein; Sioux Center.	F. L. Odell
1691	Eggs	Not candling.	A. Arendsen, Sioux Center	F. L. Odell
1041	Eggs	Not candling.	H. H. Bomgaars, Middleburg	F. L. Odell
5081	Pop.	Containing saccharine	L. G. Cross, Akron	L. P. Anderson
2228	Ice Cream	Below standard	Marcucci Bros., Belle Plaine	H. E. Forrester
1511	The Orean	Below standard	Ubben & Grange, Webster City	H. E. Forrester
1522	Ice Cream		Coden & Grange, Webster Gity	H. E. Forrester
1522	Cream	Decomposed	Carl T. Irish, Montour	H. E. Forrester
	Cream.	Decomposed	B. M. East, Albian	
2232	Cream,	Decomposed.	Jackson Dairy Co., Marshalltown	H. E. Forrester
3317	Eggs	No license	H. Miller, Cedar Rapids	H. A. Stearns
2270	Eggs	No candling certificate	Farmers Union Exchange, Solon	H. A. Stearns
781	Eggs	Decomposed	Jake Smith, North English	H. A. Stearns
311	Pop	Containing saccharine	Liddy & Ricklifs, Monticello	H. A. Stearns
6853	Pop	Containing saccharine	R. W. Schuele, Durant	H. A. Stearns
3010	Eggs	Decomposed.	T. Epstein, Sioux City	E. A. Countryman
8009	Eggs	Decomposed.	M. Robinson, Sioux City.	E. A. Countryman
3008	Eggs	Decomposed	E. Klass, Sioux City	E. A. Countryman
8008	Eggs	Not candling.	H. Raskin, Sioux City	E. A. Countryman
3007	Eggs	Not candling	Wm. Ostroff, Sioux City	E. A. Countryman
3005	Eggs	Not candling	C. F. Baird, Climbing Hill	E. A. Countryman
357	Ears	Not candling.	A. Maxman & Co., Rodney	E. A. Countryman
041	Eggs	Not candling	Claus Ehlers, Reinbeck	M. W. Knapp
1042	Eggs	Not cantaing.	Harold Grather, Littleport	M. W. Knapp
440		Not candling	Harold Gratber, Lattieport	Roy Scoles
099	Eggs	Not candling	Consumers Mercantile Co., Ionia	
y	Eggs	Not candling	Dolgin & Swarta, Wankon	Roy Seeles
6	Egga	Not candling	Gus Mitchell & Son, Rockford.	Roy Scoles
441	Egga	Decomposed	E. D. Hanson, Ionia	Roy Scoles
816	Milk	Adulterated	Homer Card, Waterloo	O. P. Thompson
134	********	Insanitary cans	Wm. Cutsford, Lawler	Roy Scoles
081	Meat Market	Insanitary	Jordon Kirschoff, Mason City	Roy Scoles
033	Restaurant.	Insanitary conditions	L. H. Johnson, Marshalltown	M. W. Knapp
034	*********	Unlawful street display of fruits	D. M. Caperice, Marshalltown	M. W. Knapp
339	Restaurant.	Insanitary restaurant and fountain	I. M. Cole, Roland	M. W. Knapp
802	Grocery Store	Unprotected goods on display	Peoples Grocery, Sioux City.	A. D. Hayes
1719	Bakery	No license,	Henry Bentainger, Donnellson	M. E. Flynn
724	5 and 10c Store	Unprotected goods on display.	W. W. Woolworth, Burlington,	M.E. Flynn
2723	Ment Market.	No license	R. Pilgrim & Son, Muscatine.	M. E. Flynn
317	Grocery	Insanitary conditions.	J. A. Furlong, Keokuk	M. E. Flynn
926	Cream Station	Insunitary conditions,	R. M. Dawson, Kennedy	H. E. Ritter

1974	Cream Station	Insanitary conditions	Geo. W. Chittenton, Milo	H. E. Ritter
2128	Cream Station	Insanitary conditions.	C. C. Barker, Ackworth	H. E. Ritter
1340	Crease Castles	Insanitary conditions	M. Millang, Roland	
1340	Cream Station		Stalpman & Jorris, Grinnell	
1665	Confectionery	Insanitary fountain and basement.	E. D. Seymour, Pleasanton.	
		Insanitary ice cream containers		
2941	Slaughter house	Insanitary conditions	C. M. Holveck, Zearing	
3028	Meat Market	Insunitary conditions	S. A. D. Smyth, Seranton.	E. A. Countryman
3001	Meat Market.	Insanitary conditions,	Merriman & Co., Sae City	E. A. Countryman
3028	Meat Market.	Insanitary conditions	Lawton Mercantile Co., Lawton	E. A. Countryman
3046	Meat Market	Insanitary conditions	Lawton Mercantile Co., Lawton	E. A. Countryman
2022	Cream Station	Insanitary conditions	Craven Cream Station, Tipton	E. W. Neasham
6890	Confectionery	Insanitary ice cream containers	T. W. Snelson, Denmark	E. W. Neasham
6891	Confectionery	Insanitary ice cream containers	Rollo Gill, Denmark	E. W. Neasham
3175	Restaurant.	Insanitary ice cream containers	Conrad Bros., Brighton	E. W. Neasham
1098	Restaurant.	Insanitary conditions	Jergen-Mataen, Lake Park	F. L. Odell
3716	Slaughter House	Insanitary conditions	Lee & Benjamin, Correctionville	F. L. Odell
1099	Bakery.	Insanitary conditions.	Jergen Matzen, Lake Park	F. L. Ode'I
9941	Meat Market	No license and insanitary conditions	Geo, G. Smith, Sheldon	F. L. Odell
9037	Cream Station.	Insanitary conditions.	Carl Fisher, Grandville	F. L. Odell
9036	Cream Station	Insanitary conditions	Ernest W. Graves, Adaville	F. L. Odell
9035	Bakery.	Insanitary conditions.	John Ogilvie, LeMara	F. L. Odell
9044	Ment Market	No license.	Abraham Van Slunter, Sheldon	F. L. Odell
9040		Insanitary conditions	Chas. Schmidt, Sheldon	F. L. Odell
7948	Bakery		Jacob Ettelson, Newton	J. M. Morrow
	Grocery.	Insanitary conditions Sidewalk display of fruits	Jacob Effetson, Newton.	Chris Ottosen
413			Tony Guth, Waterloo	Chris Ottosen
415	***************************************	Sidewalk display of fruits	Pete Carl, Waterloo.	Chris Ottosen
2238	Confectionery	Insanitary fountain	Clarence Foster, Storm Lake	Chris Ottosen
2233	Restaurant	Insanitary condition	Nathen Warner, Storm Lake	Chris Ottosen
2228	Restaurant,	Insanitary condition	J. W. Sparrow, Algona	Chris Ottosen
418	Salughter House.	Insanitary condition.	Wurders & Alms, Emmetsburg.	
419	Slaughter House	Insanitary condition	Jones & Jackman, Emmetaburg	Chris Ottosen
2251	Ment Market.	Insanitary condition	Walner & Strom	Chris Ottosen
414	Ment Market	Insanitary condition	Rabiener & Rabiener, Waterloo	Chris Ottosen
498	Restaurant,	Insanitary condition	Johnson & Knutson, Clarion	Chris Ottosen
497	Meat Market	Insanitary condition	T. J. Manley, Palmer	Chris Ottosen
496	Restaurant	Filthy yard near kitchen	W. A. Coglizer, Pocahontas	Chris Ottosen
2237	Meat Market.	Insanitary conditions.	Geo. Reid, Lohrville	Chris Ottosen
\$401	Bakery	Insanitary conditions.	Smith Pie Co., Des Moines	J. A. Jackson
14326	Grocery	Insanitary conditions,	Gus Lipshits, Des Moines	J. A. Jackson
1425	Drug Store	Insanitary ice cream containers	Churdan Drug Co., Churdan	B. O. Brownlee
4300	Drug Store	Insanitary ice cream containers.	Connor Bros., Churdan	B. O. Brownlee
4803	Loting Country	Insanitary ice cream containers	F. V. Morra Grandald	B. O. Brownlee
1359	Cream Station	Insanitary conditions	J. R. Crawford, McClelland	B. O. Brownlee
2175	Citerani Cracioni ;	Insanitary ice cream containers	O. C. Minsfelt, Clarion	T. A. Clarke
2174		Insanitary ice cream containers.	V. C. Hawks, Clarion	T. A. Clarke
2173		Insanitary ice cream containers	T. R. Hood, Clarion	T. A. Clarke
2382		Insanitary ice cream containers	V. M. Benoid, Yetter.	T. A. Clarke
		Insanitary ice cream containers	B. Chapman, Nemaha	
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60

REPORT OF COMMISSIONER

VIOLATIONS OF THE DAIRY LAW-Continued

No.	Establishment Operated			T	
2168		-	Violation	Prosecution Against	Inspector
2166			Insanitary ice cream containers	W. Campbell Thomas	
2165			instantiary toe cream containers	W. Campbell, Thompson	T. A. Clarke
2163			Insanitary ice cream containers	E I D. C. Statistic Construction of the second seco	
2158			Insanitary ice cream containers	Onner Datation Con Ch.	T. A. Ciarks
2159			Insanitary ice cream containers	Chain Halmer Tak and states a state a state state and states and s	T. A. Clarke
2160	***************************************		Insanitary ice cream containers	Chris Holyam, Lohrville.	T. A. Clarke
2161			Insanitary ice cream containers	G E Malada Daskan II Cha	T. A. Clarke
2381			Insanitary ice cream containers	G. E. Melody, Rockwell City Milbrand Wilson, Rockwell City	T. A. Clarke
524		· · · · · ·	Insanitary ice cream containers	I E Samar Baitt Low	T. A. Clarke
2155	***************************************		Insanitary ice cream containers	Chains & One Dealer	T. A. Clarke
2156		in the second	Insanitary ice cream containers	Quinn & Son, Cushing Lane Brothers, Sac City	T. A. Clarke
2157		Tallana .	Insunitary ice cream containers		
2391			Insanitary ice cream containers.	A. W. Stever, Lohrville.	T. A. Clarke
2392	Grocery	marg	Insanitary ice cream containers		
6776	Grocery. Cream Station	anne!	Insanitary ice cream containers	H H Hala A CORNER	
6760			Insunitary conditions.	H. H. Hohn, Lytton.	T. A. Clarke
6976	Meat Market	arrent.	Incultary conditions		
9026	Bakery Drug Store	and a		W. D. Bennett, Peterson	F. L. Odell
1046	Drug Store	(and a lot	AMSBIILTARY CONDITIONS		
1524					
1523	*****		Insunitary ice cream containers		
1568	*****	*****	Insanitary ince cream containers		
1573			Ausanitary ice cream containers		
1570		ALTER .	Alightitary ice cream containers		
		10000	Insan tary ice cream containers	W. J. Hall, Morrison.	H. E. Forrester
1566		2.44.00	Insan'tary ice cream containers		
1565		244.00	Ansanitary ice cream containers	J. D. Lee, Hudson T. E. Hoeg, Lincoln	H. E. Forrester
1576		*****	Insunitary ice cream containers		
1477 -		10 1 1 A A	Insanitary ice cream containers		H. E. Forrester
1478		Sec.	insanitaly ice cream containers		
1480		*****	Linghistary ice cream containers		H. E. Forrester
1481	************************************		Ansamitary ice cream containers		H. E. Forrester
1490		10000	Insanitary ice cream containers		H. E. Forrester
1491			Insanitary ice cream containers.		H. E. Forrester
1493		Sec. 1	Insanitary ice cream containers		H. E. Forrester
1497		Galler 1	Insanitary ice cream containers		H. E. Forrester
1501		See.	Insanitary ice cream containers	The DL .	H. E. Forrester
1502		Seco	Insunitary ice cream containers	4 nos. Diagey, Luzerne	H. E. Forrester
1506	*************************************	-X 6	Insanitary ice cream containers		H. E. Forrester
1509		25444	Insanitary ice cream containers,	M. J. Swerson, Jewell	H. E. Forrester
1508		1.1	Insunitary ice cream containers	Sarford I. Raymond	H. E. Forreater
1479	************************************		Insanitary ice cream containers.	M. Berend, Raymond Sanford Johnson, Stratford	H. E. Forrester
		Learn			H. E. Farrester
				Geo. LaPlant, St. Anthony	H. E. Forrester

1572 1488 2239 1574 2229 2238 1575	Cream Station Cream Station Creamery Creamery Creamery	Insanitary conditions Insanitary conditions Insanitary conditions Insanitary conditions Insanitary conditions	W. A. Elliott, Morrison, M. R. Ebertson, Marshalltown A. J. Gruis, Aplington Herbert Sobale, Eldora Peter Thousen, Belle Plaine, Howard Krats, Hampton, W. D. Wolfzang, Marshalltown	H. E. Forrester H. E. Forrester H. E. Forrester H. E. Forrester H. E. Forrester
45 49 48 47 46 7947 2167	Dairy Grocery and Meat Market Grocery and Meat Market Meat Market Meat Market Grocery and Meat Market Meat Market Cream Station	Insanitary conditions Insanitary conditions Insanitary conditions Insanitary conditions No license.	Bryant Meat Market, Centerville H. & L. Roth, Centerville Peter Ardurino, Centerville	J. M. Morrow J. M. Morrow J. M. Morrow J. M. Morrow J. M. Morrow
2152 2169 2269 3284 3283	Cream Station Cream Station Meat Market	Insanitary conditions Insanitary conditions Sidewalk display of food. No license.	A. H. Jamieson, Spirit Lake Meyer Friedman, Forest Gity P. Gatto, Cedar Rapids. Neilon Brox, Onalow B. L. Singley, Morley	T. A. Clarke T. A. Clarke H. A. Stearns H. A. Stearns

VIOLATIONS OF THE WEIGHT AND MEASURE LAW

1884 Gast 1881 Coal 1883 Bres 1886 Scal 1880 Scal 3405 App 959 Pota 960 Coal 958 Pota	oline	Short measure	March 1 All Ch. March 1	Construction of the second sec
1881 Coal 1883 Bres 1886 Scal 1880 Scal 3405 App 959 Pota 960 Coal 958 Pota	oline		Transcontinental Oil Co., Sioux City	E. J. Nolan
1883 Bres 1886 Scale 1880 Scale 3405 App 959 Pota 060 Coal 958 Pota		No license.	J. T. Nieby, Milford	E. J. Nolan
1886 Scale 1880 Scale 3405 App 959 Pota 960 Coal 958 Pota		Short weight	L. G. Everst, Sioux City	E. J. Nolan
1880 Scale 3405 App 959 Pota 960 Coal 958 Pota	sd	Short weight	Clear Lake Bakery, Clear Lake	E. J. Nolan
3405 App 959 Pota 960 Coal 958 Pota	Ø	Incorrect scale	Roseveldt Bros. Ackley	E. J. Nolan
959 Pota 960 Coal 958 Pota	C	Incorrect scale	Frank Matake, Charles City	E. J. Nolan
960 Coal 958 Pota	C5	Short weight	S. Sundogo, Mason City	E. J. Nolan
958 Pota	atore	Short weight	Baber & Sullivan, Des Moines	E. J. Nolan
		Short weight	City Fuel & Supply Co., Des Moines	E. J. Nolan
	atoes	Short weight	Baber & Sullivan, Des Moines.	E. J. Nolan
		Short weight	C. L. Barelay & Son, Waterloo	E. J. Nolan
	Ø	Incorrect scale	Farmers Elevator Co., Wallingford	E. J. Nolan E. J. Nolan
	C	Incorrect scale	Geo. McGillivroy, Carpenter	
	oline	Short measure	Cresco Auto Co., Cresco	E. J. Nolan
	Ø	Incorrect scale. Short weight	Kanard Bros., Sionx City	E. J. Nolan E. J. Nolan
		No Users	H. Lavine Co., Sioux City. C. R. Dodd, New Hartford	Chris Ottosen
	oline	No license		
	oline	No listness	Hagen Bros., Grinnell.	H. A. Stearns

62

Inspector	H. K. Starnin, H. K. Starnin, H. K. Construmant J. A. Jakimuran, C. S. Bogio G. S. Bogio M. R. Flynn, M. R. Flynn, M. R. Flynn, M. R. Flynn, M. R. Flynn, M. R. Flynn, C. H. Boltz, J. W. Milnes, A. B. Britzs, A. B. Britzs, B. G. G. Browne, B. G. Browne, B. B. D. Browne, B. D. D. D. Browne, B. D. D. D. D. Browne, B. D. D. D. D. D. Browne,
Presecution Against	J. M. Berchay, Jown City Weiler, Richer, Cosmitz Jishim, Weiler, Richer, Cosmitz Jishim, Nathan Thumas, Dan Maham City Fuel & Storpto Co., Den Moinne, City Fuel & Storpto Co., Den Moinne, L. D. Coffer, Dwarppert J. D. Coffer, Dwarppert J. D. Coffer, Dwarppert Merropolistic & A tho Escen. Livenspert Merropolistic & A thoremont Merropolistic Cosmy Best Jenkin, Prostandle, Best Jenkin, Onton, Althan Best Jenkin, Onton, Althan St. L. Colline OII Co., Chart Raphil Best Jenkin, Onton, Althan St. L. Colline OII Co., Chart Raphil Best Jenkin, Onton, Althan St. L. Colline OII Co., Chart Raphil General Res. Coal Co., Colar Raphil General Res. Colars. Martin Thuran Man. Uty S. Sandarga Jeneral. Carl K. Corkon, Kumanitown B. L. Garlon, Kumanitown B. L. Garlon, Kumanitown B. L. Carlon, Stania Coly.
Violation	No factorenes
Sold for	Seale Seale Seale Protocor Protocor Cond. Cond. Cond. Seale Seale Seale Cond. Descrite Cond. Cond. Reserve Cond. Reserve Cond. Reserve Cond. Reserve Seale Cond. Reserve Cond. Reserve Reserve Cond. Reserve Reserve Cond. Reserve Reserve Cond. Reserve Reserve Cond. Reserve
No.	965 11200 11200 11200 11200 11200 11200 11200 114111 1141 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 114111 1141111 114111 114111 114111 1141111 1141111 114111 114111 11411111 1141111 114111111

DAIRY AND FOOD DEPARTMENT

THE LABORATORY

There has been an increase in the number of samples which has passed through the laboratory and much information has been obtained as to the character of the different products covered by the law. Farmers have been making an increased use of the laboratory to check up the quality of the concentrates they feed and the stock remedies they use.

The purpose of the law is to give them this service for a nominal fee and we are glad to see them take advantage of it. Much of the time of the chemist has been consumed in analyzing samples for county attorneys and attending court.

The following table gives a list of the number of samples which have been analyzed in the laboratory:

Milk and Cream	1916	Samples
lee Cream	105	Samples
Miscellaneous Foods	217	Samples
Paints and Oils	16	Samples
Butter	272	Samples
For County Attorneys	256	Samples
Seeds	98	Samples
Stock Foods	38	Samples
Bacteriological	266	Samples
	0101	Genelas
Total	3184	Samples

CITY MILK LICENSES

Table showing the number of milk licenses issued to city milk dealers for each year from 1912 to 1922. In each case the year ends on July 4th.

Year. 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 No... 1,908 2,038 2,189 2,365 2,729 2,858 2,936 2,718 3,061 3,455 4,708

LOCAL STATE MILK INSPECTORS OF THE STATE OF IOWA

	Inspectors
Cities	W H McLain, D. V. M.
Boone	W F Schroodor
Burlington	
Cedar Rapids	. Dr. A. R. Menary
Council Bluffs	. B. A. MOOLO
Cilling to an	J. FL. Spence
Demonstration	.A. D. Hasams, D. v. m.
Des Moines	W. B. Barney, Jr.
Dubuque	P A. Hodge
Dubuque	B Gilleas
Ft. Dodge	P I. Casey
Ft. Madison	C C Chasey
Tours Cilty	- + C+ D+ CHBBC, OK+ Mr
Fookuk	. Geo. D. Marriey
Masshalliown	. Dr. R. M. Allen
Marian Clines	LIT, U. W. Dauy
Managhing	DT. C. J. HIBCRCLE, M. V. D.
Ottumwa	Dr. E. F. Lowry
Sioux City	W. D. Haves
Sloux City	C. L. McDermot*
Waterloo	and the state of state of the s
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SUMMARY

During the year ending October 31, 1922, our inspectors have made a total of 46,047 inspections, as follows:

Grocery	1.
Meat Market	11,276
Meat Market	5,258
Milk Wagon Bakery	223
	1,218
Slaughter House	257
ACONTRAL CALIFORNIA CONTRAL CONTRA	365
Coal Dealer	* 113
AND FACOT	14
reeu store	157
ice cream ractory	044
WAUGHIELY ACCOUNTS AND	1.184
LPART VIDER	
Farm Dairy	480
Confectionery	683
Wholesale Grocer	732
Seed Dealer	
Bottling Works	40
Bottling Works	46
Cream Station	4,430
Produce	3,144
Wagon Scales	3,217
wounder Scales	9,626
Gasoine Fumps	1.682
WEDGOULES	950
Miscellaneous	326
	040
TOTAL	46.047

DAIRY AND FOOD COMMISSION

Fees Received Year Ending October 31, 1922

Inspection Fee	Tags .	1.	1	12.	1													20 210 00
Feeding Stoffs	Amalyen	2.13	÷.		30							4.4	* >	20			*	28.00
Feeding Stuffs	Analyse	8	r /9	es		1.16	3.3			6.5	4.5	R					2	77.00
																		2.350.00
LAND LICALICITS LIC	C4111164190																	7,361.00
DEDCOCK LESC LI	Censes																	
Scale Tag Licen	000						1.0			* *		14	1.4	-		* *		9,482.50
Scale Inspection	13	101					1.1		10				+ +	•	• •	4.4		€,204.00
Scale Inspection	Pees			0.9	4.4													9,870.24
																		17,481.00
ANALIA LICERTE LAR	CT 475 77 82 478 92																	5.679.00
Gasoline Pump a	and Mot	-		A.			1		~*							• •		
Cold Storners Lie	town on					0.63	٩.	1.5	2.5	1.4	+ +		• •	89	*	• +		14,061.00
Cold Storage Lic	censes .				* *	88	* *						iж					425.00
TRAFFEL TLUGG-HIBI	TK PERS																	90.00
Commercial Fert	tillzer I	Ac	en	SE	s													440.00
TOTAL																		

TOTAL\$ 93,764.94

Fees collected by this department, as listed above, are not used by the department, but are turned over to the state treasurer as soon as received.

REPORT OF COMMISSIONER

DAIRY AND FOOD COMMISSION

Expenses Year Ending October 31, 1922

NAME	Salary.	Expense	Total
*R. G. Chark	\$ 1,650.00 1,650.00	\$ 95.88 163.63	\$ 1,748.88 1,813.63
•W. B. Barney •M. E. McMurray	2,633,24	103,63	3,007,47
*M. E. McMurray	2,700.00	20.83	2,720.83
sp. H. Abbett	311.56	339.35	650.91
R O. Brownice	2,100.00	1,445.44	3,545,44
T. A. Clarke.	2.100.00	1,207,48 772,25	3,207.48
 aH, E. Forrester. aL, P. Morrison. 	948.24	961.27	1,009.51
H. E. Hitter	2,084,92	1,094.05	3,178.97
P. W. Stephenson.	2,100.00	1,387.36	3,487.35
O. P. Thompson	2,100.00	1,353.89 197.45	3,353.89 550.78
*P. C. Gilmore P. L. Odell.	2,083,33	1,159,73	3,243,08
Ray Scoles	1,001,95	1,443,70	3,345.65
E. A. Countryman	2,100.00	859,65	2,909,00
C. C. House	1,875.00	1,268.20	3,143.26
*J. A. Jackson.	1,383.33 1.875.00	245.06 620.94	1,628,39 2,405,04
M. W. Knapp. J. W. Milnes	2,100.00	951.97	3,051,07
J. M. Morrow	2,646,66	967.62	3,014.28
PC. Ottower.	2,037.50	1,052.40	3,059.90
H. A. Stearns.	2,100.00	824.80 104.20	2,924.80 454.20
*B. O. Van DeBogart. C. S. Bogle.	2,400.00	219,33	2,619.33
L. S. Boge	2,100,00	1.510.83	3,610,83
E. J. Nolan	2,100.00	1,815,87	3,915.87
W. G. Jordan	2,100.00	58.79	2,158,79 2,000,00
A. W. Day	2,000.00		1,500.00
R. V. Barker Hlancha Lindblom	1,200.00		1,200,00
Maurine Mack	1,200,00		1,290.00
*Helen Teed	223.22		223,22
*Fannio Conaway	879.38 432.30		879.38 432.30
*C. G. O'Connell *Mary Coon	452.80		90.00
J. W. Lytton	1.200.00		1.200.00
Miscellaneous Office Expense		3,155.78	8,155.78
Laboratory Expense.		185.07 319.30	186.97
Weights and Measures Expense,		9,212.50	0,212.50
Milk Agenta' Expense.			624.36
Telephone		63,68	62.68
Talegraph		20.64	30.64
Electrinity Express and Drayage		18.53 348.20	348.20
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Total	\$58,938.96	\$36,718.43	\$95,637,39

*Employed loss than a year.

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COUNTY	No. of creamerics reported	Pounds of milk received	Pounds of cream received	Pounds of butter manufactured	Founds sold to patrona	Pounds sold in Iowa	Pounds sold out- side of lows
Adair Adain Allamakee	01 - 1 -		979,011 200,000 5,802,636	378,111 63,000 1,903,375	27,194 2,300	79, 928	
Apparations Audulos	64 49 19 j	191,515 155,244 31,000	14, 263 1, 867, 938 388, 484	311,459 706,902 240,540	38, 5590 06, 759	24,121 90,415 60,667	2,611 574,934 184,531
Boardsaww. Boardsaww. Brenner	2**8	281.	4, 572, 069 163, 262 2, 458, 790	2, 252, 667 179, 880 3, 276, 978	90, 1987 7, 347 235, 383	1,277,564	
Buthdaan Butena Yiska Butena Yiska	a m =	8, 949, 808 1, 122, 534 10, 896, 205	3,642,630 1,063,568 10,187,244	3,047,842 352,912 1 842 043	138,458 14,048 85 074	201,901	
Cathom Carroll	* 0 1	20.00	645, S27 3, 599, S72	418,041	12,859	111,487	
Centre Gentle.	n io a i	2,841,315	3, 6/10, 455 9, 357, 938	1, 106, 060	9,311 58,061 81,506	1111, 699 2521, 120 510, 833	
Clarker Clarker Clarker	- 64 -	4,120,901	5,714,337	2,122,642	. 106,114	24,516	1,702,822
Clay Clayton Clatton	*12.4	218,400 16,006,625 12,572	9,595,316 1,349,758	217,875 3,702,786 2,337,251	16,446 158,156 38,207	11, 313 13, 809 396, 086 165, 941	62, 962 3, 147, 786 2, 011, 965
Crawford Dallae Delaware Dea Mulae		2, 295, 077 6, 111, 047	6, 353, 078	907,028 163,053 2,475,294	4, 562 3, 300 173, 413	30,901 140,785 211,545	
Dickinson Dickinson Billongis Billongis Pignetis Fignetis	10127121		1,956,956 9,067,125 1,329,053 7,302,053	8,780,770 6,780,770 3,653,565 3,653,563	34,649 105,951 15,224 255,316	123, 306 1237, 074 89, 029 846, 058	3, 501, 834, 901 3, 501, 834 3390, 112 2, 975, 563
Franklin. Greene			2,361,839	680, 803 67, 209	47, 127	241,200 38,111 66,953	
orneoy. Control Manikun Hanikun Hartin	041-23	552, 473 33, 979 33, 979 36, 951 405, 165	907,001 1,092,821 388,243 3,068,792 3,068,792	523, 176 421, 018 259, 623 1, 254, 544 2, 450, 904	27,738 16,383 46,875 57,156 57,156	21,824 231,731 335,006 130,862	473,508 89,851 190,252 1,087,828
Beny			6, 802, 903	36,500	110,10	24, 884	600°.009

DAIRY AND FOOD DEPARTMENT

2233, 000, 81, 9235 179, 1881, 1 779, 1039 277, 8800 225, 1259	1, 750, 024 215, 966 1, 411, 966 1, 683, 161 1, 781, 109	119, 568 40, 450 100, 657 521, 337 521, 337 1, 403, 538 3, 720	77, 108 667, 728 568, 728 228, 327 1,031, 704 758, 003 758, 003 2, 754, 004	022 109 1182 1182 244 812 812	2,813,064 9.67,404 9.67,404 9.67,500 1,068,440 3.0,960 1,525 2,100,228 2,100,228 2,100,228 31,484,067 1,138,021 1,138,021 1,138,021 1,138,021	94.674.777
140, 711 1100, 858 390, 056 870, 056 101, 167 154, 000	907,00 1178,250 2011,646 2011,646 2011,646 2011,646 2011,646	40, 235 40, 225 130, 412 204, 223 204, 223 204, 223 10, 200 60, 530 61, 501	30, 192 114, 709 119, 622 9, 645 67, 67 107 114, 148 2, 855, 417 2, 855, 417	316,450 101,902 702,678 6,741 448,004 386,730 173,104	401,707 401,706 942,016 942,016 942,016 115,200 115,200 115,200 115,200 115,200 115,200 205,007 205,00000000000000000000000000	20,999,596
19, Mar B, 140 77, 770 3, 443 3, 443	130,001	1,565 13,000 13,000 13,000 130,000 100,001 100,001	12,539 56,651 39,850 104,010 5,700 144	1.006 786,7764 786,7764 187,222 187,222 190,511		4,715,171
422,500 167,993 1,902,635 91,400 91,400	2, 007, 422 349, 400 1, 708, 625 2, 120, 602 2, 1386, 222 2, 1386, 222	400, 454 40, 523 370, 113 100, 000 970, 530 114, 016 1, 016, 018 1, 016	2773, 9775 2004, 5276 804, 927 2744, 721 1, 1286, 817 1, 0204, 681 2011, 380 6, 5004, 831	1, 338, 500 290, 009 312, 726, 231 1, 726, 231 100, 138 2, 579, 473 1, 000, 083 1, 000, 083	1, 379, 594 3, 1199, 509 3, 1199, 500 1, 1200, 449 4, 7211, 2003 223, 5075, 108 224, 5071, 108 1, 4001, 961 1, 7711, 965	134,168,089
		166,630 98,648 275,191 3,840 3,840 2,276,138 2,920,686 5,480 5,490 5,490 5,400 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,7000 5,70000 5,70000 5,70000000000		724, 124 729, 124 4, 500, 590 460, 590 7, 118, 598 7, 118, 598 2, 939, 130 891, 144	1, 008, 013 8, 025, 016 167, 000 3, 229, 234 1, 703, 823 4, 708, 470 1, 703, 833 4, 708, 470 1, 703, 833 4, 416, 800 4, 416, 800 2, 404, 278	323.742.273
306, 308 512, 921 447, 200	19, 154 319, 042 103, 508		108, 200 200, 022 207, 022 147, 401 101, 607 1, 345, 716	482,020 371,640 2006,525 978,532 12,000	296.502 153.200 4.600.816 55.580 55.885	169.482.729
*******			04 10 04 16 09 14			422 .

REPORT OF COMMISSIONER

as Reported

CREAMERY LIST

P. O. address of Butternuker	eld		pring Grove, Minn Dutch Materylle Materylle Waakon Waakon New Albin	rille	a Iton a	laine	щ., Ко
P. 0 Bu	Adsir Greenfield	Presoott	Spring Gr Church Waterville Waateon New Allian Postville	Centerville Centerville	Audabon Exira Kimhallton Exira Audubon	Belle Plaine Newhall Vinton	Benson Codar Falla Waterloo Denver LaPorte City
Name of Buttermaker	J. T. Ryan Romane Reynolds	Chris Landhigh	Olaf Goodno Ven Stree J. O. Johnson. A. H. Barsemeler Vieter Johnson B. F. Schutts.	Vane Thomas F. T. Strickler	Johannes Johanneson L. P. Nelson G. B. Peterson M. Nilson	Peter Thuesen Henry Stelling. Wm. Matter	J. F. Lorenzen Loto, Holn Louis, Holnan Wm. Meier R. O. Rea.
P. O. address of Proprietor, Secretary or Manager	Adair Groenfield	Presout	Spring Grove, Minn. Charth Charth Waterille Waterille New Altha Dorrville	Centerville.	Audubon. Rutus Kittus Kittas Kittas Audubon.	Balle Plaine Newhall Vinton.	Cedar Falls Codar Falls Waterio Dauver LaPorte City
Proprietor, Societary or Manager	D. J. Cowden. W. A. Ponter	Chris Lundhigh	0. C. Flatteer, E. E. Krendt, G. H. Gaudreson Tolke Johandeson Henry Schert, H. T. Hangartne,	H. R. Schultz. F. T. Strickler	John Jensen L. P. Nelson P. Nelson A. C. Nelson A. C. Nelson Nilson Bros	Peter Thuman Gardeman & Jungebaw Wm. Matter	J. R. Dumond, J. R. Dumond, J. H. Branden, Wm. Muitr C. A. Foue
Located at or near	Adair. Oreenfield	Prescott.	Quandahl, 10 mi, 8, of Spring Grove, Minn. Lanung, 6 mi, W. Watterrille Watterrille Watterrille Fostville	Centerville Centerville	Auduhon. Existen, 6 mi. E. Kinthallion. Exist.	Bette Plaine Newhall Vision	Henson. Cedar Falls Waterbo
NAME OF CREAMERY	Adate Cobarts- Adate Co-supersitive Creamery Co- The Greenhold Creamery Co-	Adams County-	Allamidee County- Allamidee County- cale Spring Creasery Association. c Allors Creasery Co- parameter County Co- taging Co-pressive County Co- bactural Towner County Co- bactural Towner County Co- bactural Towner County Co- bactural Towner County Co-	Agpunoter County	Addubon County	Benton County	Barahart Conny-

Hudson Cadar Patta	Waterloo	Boone Story City	Weverly Banere Summe Summe Roadlyn Roadlyn Frydoil Frydoil Frankik Answerike Frankik Answerike Summe Roadlyn Roadlyn Roadlyn Roadlyn Summe Roadlyn Roa	Fairbank Fairbank Haaleton Jegup Lannon Ruwiny Aurora Aurora Murthrop	Alta
Wm. McPatland	R. W. Chadwick	C. J. Wolle. L. C. Peterson.	C. J. Majner, R. R. Mainer, R. R. Manterin, W. J. Baurrey, D. Dan- theory, and M. Markov, W. J. Baurrey, H. O. Konstein, L. Antheone, H. Markov, W. Skicknen, L. Markov, W. Skicknen, R. M. Scherker, H. R. Weiting, J. B. Weiting, J. B. Weiting, J. B. Weiting, J. B. Weiting, J. B. Weiting, J. Markov, Markov, P. B. Markov, K. J.	Julun Statiler Julun Statiler Matt McDownil J. E. Mcruis E. A. Colo C. B. Francy G. C. Jenned G. C. Jenned	Viggo Kiilsholm
Hiddom, Dolla	Waterloo	Boone Story City	Warendy Warendy Warendy Warendy Warendy Warendy Warendy Dorwe Dorw	Parthack Parthack Landeron Leero Lamorat Walker Aurera	Alla
H. Laftenn	C. Bechtelheimer C. Bechtelheimer	H. P. Sailing & Wood	Harry Searchers F. A. Barrat. M. J. Marching, M. J. Maching, M. J. Maching, M. J. Maching, M. C. Reich, B. G. Thak, B. G. Thak, J. J. Ritchinaner, Harry Olto, J. M. Raman, M. Barrat. Statisticanan, M. Barrat. P. Schwake, D. Shynise, H. A. China, M. Barrat. P. Schwake, D. Shynise, B. B. Manott, D. S. Shynke, D. S. Shynke, B. B. Sanott, D. S. Warke, M. Barrat. O. C. Karlange, D. M. Kraman, M. Barrat. J. J. Karlanger, M. Barrat. D. Schwake, D. S. Kraman, M. S. Shynke, D. S. Kraman, M. S. Shynke, D. S. Kraman, D. S. Kraman, M. S. Shynke, D. S. Kraman, D. S. Kraman, M. S. Shynke, D. S. Kraman, D. S. Kr	Harry Lyon. C.E. Ribele D.E. Roper D.E. Color. J. R. Waten. W.J. Waten. J. C. V. Roscherger	L. H. Hatch
Rudson, O. Codar Palis	Waterloo Waterloo Waterloo	Boone Story Gity	Waterby- Barante Barante Barante Danner Dann	Brandm Fattank Fattank Taaleton Jeno Jeno Auren Auren Auren Mudeponenen Wuddong	Alta
Hudson Co-spannitive Dairy Association	Orange Creanery Gu	Boome County— Peerleas Ice Oream & Butter Co	Breater Contrigu- Artinia Restart Contrigu- Element Construction Con- Element Construction Construction Element Construction Construction Element Construction Construction Element Construction Construction Element Construction Construction Free Market Construction Free Market Construction Free Market Construction Construction Construction Construction Co	Buchanat Contry- Captor Lexanory Captor Lexanory Lapton Parameter Creanery Co	Burna Vista County Chover Leaf Dairyi

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Cedar County Durant Farmers Creamery Association	Central Iows Poultry & East Co	Caroll County - Caroll County - Doftant Country Co. Partner Country Co. Balane Country Co. Manual Country Country Country Co. Manual Country		amery Co.	Farmers Creannry & Produce Coe Biorm Lake Produce Co	NAME OF CREAMERY
Durant	Altantie	Carroll. Dechann Bareda. Halber Clown Rapids. Monnhag. Bonelle. Tumpleten.	Lohrville. Manson Semera Pomeroy	Parlamburg Aningsten Clarktwitz Parlamburg Dunnoti. Alliwen Shell Rock. Shell Rock. Austavelle.	Newell Storm Lake	Located at or near
A. R. Lamp W. H. Erreger	E. H. Burn.	C. C. Roberts. H. Laurideen. A. J. Pelking. M. J. Wagner- Jan Jensel. J. F. Wenter. M. J. Friedman. J. F. Biterl.	J. J. Stamen. J. J. Bork. S. P. Peterson. H. A. Albrecht	W.H. Chayman, B. B. Luclemann H. W. Shua C. J. Robde, C. J. Robde, Red Bren, William Atlan Med Bren, U. J. Jacobien, C. J. Kustin, D. C. Austin, B. L. Pattenson,	J. C. Arne L. W. McCreery and M. L. Crowley	Nume of Proprietor, Secretary or Manager
Durant	Atlantie Atlantie	Caroll Declandi Breda Balver Con Rapida Maning Carellin Carellin Carellin	Lahrville. Manson Somers. Posseroy	Perlorationg Aplication Clarkterville Datasoft Datasoft Datasoft Application Clarkterville Datasoft Application Clarkterville Shell Rock Shell Rock Shell Rock Shell Rock	Newell	P. O. address of Proprietor, Secretary or Manager
H. G. Davis. Andrew Gudvangen	Jons P. Jensen A. V. Jensen	C. C. Roberts. H. Laurichen. J. E. DuChann. M. J. Wagner- Carl Hastlock. Paul Render. M. Priedman. Frank J. Domayre	J. J. Stamen J. J. Bork Laurs Ethan George Froom	W. H. Chapman, B. B. Ludermann, M. A. Jonen, Arthur Broky, Carlo Rande, Carlo Rande, Carlo Rande, Carlo Rande, Daniel E. Brooke French, P. W. Peterno, F. Daniele P. F. Jakolemen,	N. C. Olson. L. W. McCreery and M. L. Crewley	Name of Buttermaker
Durant Benneti	Atlantie Atlastie	Carroll Doctaan Breda Halbor Coon Rapida Carrold Carrolt Templeton	Lohrville Manson Somers Pomeroy	Packersburg Aplington ClarkterVille Packersburg Dumont Allicok Shell Rook Shell Rook Shell Rook Austorille	Newell Storm Lake ⁴	P. O. address of Buttermaker

Curston Conty- Constant Contract Innorthurg & B. Child Cooperative Ovalary Os. 6 Innorthor Cooperative Ovalary Os. 6 Innorth Cooperative Contract Oster 1 Innorth Contract Oster 1 Innorth Cooperative Contract Contr	Cay County— France Connerg Co. Langton Mittal Co-specific Cruatory Association Spectry Dairy Products (D. Webb Cruatory).	Clarke County-	Alta Vata Faranzy Cooperative Cranary Asea	Cherokee County- Cherokee Creamery Co	Cern Garlo Cunty- Duglery Co-operative Cosanery Co. Internet Monto Co-operative Contact I. B. Haley & Co. Indentative Development Contact Tymosch Co-operative Contact Development Contact Noticell Co-operative Contact Noticell Commery Co.	Lowin Farmers Metaal Goog. Connery Ann.e Massilion Cooperative Creamery
Elkoler St. Ohl Dolgwood McGreger Ouerslook Garber Garavillo	Dickens Langdon Spencer Webb	Osceola	Alta Vinta. Nadina. Prodecideburg. Jorea Lawier. Jawier. Jawier. Jawier. Jawier. Jawier.	Cherokee	Dougherty Oliver Lake Masen City Masen City Noter City	Lowlen . Massilen. Triton Triton West Branch
J. T. Leonard. Wm. Fulrman. W. A. Bubianco. Adam Exte- Join White. J. L. Borrett. J. L. Krugel.	O. P. Henderson Martha Caldwell Jensen & Christenen Birdsall-Andersen	B. H. Burns	G. J. Scholt. W. N. Wayne C. L. Whitemb C. B. Micoty Barl Cochenan B. E. Nuity J. P. Landwerk J. P. Landwerk C. M. Burmanter	John H, Goeb and Earl J. Goeb.	W. J. Lake W. F. Fuul. W. S. Wilcox Irwin R. Snyder. C. E. Behnhe W. B. Brone W. B. Brone Many Donner Gon. and Henry Amink H. H. Olimburg.	E. Poole P. H. Schneider A. J. Barth Albert B. Sidwell
Ellader St. Old Eldewood Medrwor Garler Garler Garler	Dickens. Langdon Spettoer Webb	Oscorola.	Alta Vints. Naduta. Proderiskolturg. Joraia. New Hampton. Jawler. New Hampton. Wawoma. Proderiskaarg.	Cherokee	Dougherty Olear Late Mason City Mason City C	Lowden. Mawilien Codur Bapide Lowa City
J. T. Lenned J. F. Fuler J. F. Fuler Ben Frenk E. O. Ballman Garl E. Wildmon Garl E. Wildmon Fred C. Landa Fred C. Landa	B. Cordray Albert Knotorn E. Jensei Harry Blowe	Fred S. Davis.	T. F. Skipton. Goo, Reyerron. N. D. Sweet. W. D. Sweet. W. D. Dilky F. W. Neileen. Johnne Fransgan. D. W. McMer. J. E. Flankend. N. B. Trilsesta.	Dean Galleys.	P. J. Gostninger S. B. Biolon. S. B. Biolon. S. Warris Roy Wyant Roy Wyant Roy Wyant Roy Wyant Lohn S. Smith Henry Jouner. Henry Jouner Henry Jouner.	W. L. Shuan, O. H. Ball Otto Wiokuman, W. E. Hunter,
Elkader St. Ond Edgewood McGregor Owterdock Garber Garnavillo	Dickens Langdon Spensor Webb	Oseeola	Alta Vista Naahua Frisferitekurg Lonia New Hampton Lawler New Hampton Lawler New Hampton	Charokee	Dougherty Clear Lake Mason City Plymont City	Lowden Massilion Tipton West Branch

P. O. address of Battermaker	Edgreood Littleport Littleport Latas Turkey River North Buna Vilta Manan Walas City Medervile Medervile	Charlotta DeWitt Toronto Wheatland Clinton	Denison	Denter Perry	Coholing Early and Santy and Restore Ryan Manchaster Manchaster Manchaster Nasarytes N
Name of Buttermaker	W. I. Dilaer Eard Balchder C. C. Bamberger Herwerd D. Ash P. J. Warden Dito Weiger Dito Weiger Dito Weiger P. A. Jordahl Fred Germand F. D. Ford	Martin Nialaa. Martin Nialaa. Hatry Situak R. E. Lang. H. W. Amer	J. C. Christianisen	W. L. McMenamin.	A. L. Landin, Exceeding and Mana Karakan Wang, Long W. Russer, Long W. Russer, Land W. Russer, Land K. W. Karakan, Mare Channa, Rathan, Karakan, Karakan, Li K. Kranser, Li K. Kranser, G. Rounsi, G. Rounsi,
P. O. aldress of Proprietor, Societary or Manager	Edgewood Edgoort Lanor Turkey River Worth Dana Vitta Strawferry Point Strawferry Point Strawferry Point	Charlotte. DoWth. Terest	Denison	Dentee.	Colorbane Bartylla, Bartylla, Rynamy Rynamy Rynamy Manerylla, R. 3 Sartylla, K. 3 Sartylla, K. 3 Manerylla, K.
Frequencies, Secretary or Manager	F. R. Hatch G. C. Ruspitz H. B. Proferbils H. G. Frechnin H. G. Frechnin H. G. Frechnin M. A. Canree and S. Monan A. R. Oltaner, A. R. Dittmer,	Martin Nisleen Martin Nisleen Mio G. Capper Mio G. Yale W. A. Templeton F. H. Johnan	J. G. Handfird	R. F. Linghty. H. J. Ryner	Robi. A. Chaff. L. S. Braton A. W. Bharnar, J. M. Bharnar, J. M. Barnar, Barnar, M. Barakalder Danish A. Barakalder Elmer J. Beed, S. M. Beere, Elmer J. Beed, J. M. Dilparam, J. M. Dilparam, J. M. Dilparam, Pered A. Theol,
Located at or near	Edgewood Edgewood Lataboor Lataboor Mibrida Mibrida Mibrida Brawelkery Pout Muonon Woom Moonerilla	Charlotte. DeWite. Trendite. Wheetland Clinton.	Deniano	Denter Eartham Purry.	Coholong Read-th Read-th Read- Read- Read- Read-Read- Read-Read- Read-Read- Read-Read- Read-Read- Read-Read- Read-Read-Read- Read-Read-Read-Read- Read-Read-Read-Read- Read-Read-Read-Read-Read- Read-Read-Read-Read-Read- Read-Read-Read-Read-Read-Read- Read-Read-Read-Read-Read-Read-Read- Read-Read-Read-Read-Read-Read-Read-Read-
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Burlington.	emmery Co		Dest. 8 Wallingford Dest. 9 Reference Research 0. a Rispercella.	Alpha. Alpha. Control of Control Control of Control Alberta.

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
Richfield Creamery Co	Sumner Wadena Wausoma Westgate West Union	Alfred Morf Will McGuiness. H. E. Marron F. S. Cahman W. L. Chamberlain	Sumner Wadena Waucoma Westgate West Union	T. C. Cline. J. T. Mogle. Chris Russeler	Summer Wadena Waucoma Westgate West Union
Ployd County- Charles City Creamery Co. Niles Counter Company Nors Springs Creamery & Profese Co. Roctford Cooperative Duity Association e	Charles City Calwell Nors Springs Rockfurd	N. H. Nelson F. Brunner W. F. Miner R. F. Duaksiberg	Charles City Colwell Nora Springs Rockford	Chas. T. Zeirath C. Erickson	Charles City Colwell Nora Springe Rockford
Franklin County— Farmers Co-operative Creamery Co	Popejoy Alexander Coulter Latimer Sheffield	J. C. Tjarks W. F. Dunn Geo. Dohrmann. O. A. Johnson E. W. James	Alexander	H. J. Binger Loslie I. Born John M. Hansen Ramms Nolson J. D. Frete	Popejoy Alexander Coulter Latimer Sheffield
Greene County— Jefferson Creamery	Jefferson	M. E. Brunner	Jefferson	M. E. Brunner	Jefferson
Grundy County— Beaver Center Creamery Co. 6 Buck Grove Creamery Co. 6 Grundy Conter Creamery Co. 7 Grundy Conter Creamery 1 Wellaburg Creamery 1	Stout. Aplington Parkersburg Grundy Center Wellsburg	Andrew J. Meyer Ralph Slight W. H. Henning E. C. Kamoss H. G. Kramer	Stoot Aplington Parkersburg Grundy Center Wellaburg	B. T. Soles R. G. Alderson	Stout Aplington Stout Grundy Center Wellsburg
Guthrie County— Casey Creamery Go. 6 Parneser Co-operative Creamery & Produce Co. e Menio Creamery Co. e Panora Co-operative Creamery e	Casey. Guthrie Center Menlo Panors	Joe F. Oddy M. J. Van Dam Bryan J. Varley F. F. Wilcox	Casey. Guthrie Center Menlo. Panora	M. J. Van Dam.	Casey Guthrie Center Menlo Panora
Hamilton County Eilaworth Creamery Co	Elleworth Randall Jewell Webster City	L.E. Nelson	RandallJewell.	Jim Slaughter L. E. Nelson Fred Thompson H. E. Forrester	Elleworth Randall Jewell Webster City

Welaster City Creamery	Webster City Webster City Williams	0. Ellingson E. S. Ubben P. W. Petersen	Webster City	E. L. Hall, E. S. Ubben	Webster City Webster City
Hansock County— Beitt Creanery Amoritation Crystal Creanery Concernery Farmers Co-operative Creanery & Kanawiha Farmers Mutual Co-operative Creanery & Kiname Co-operative Creanery & Woden Farmers Creanery & Woden Farmers Creanery & State St	Britt. Crystal Lake Garner. Kanawha. Klemme. Woden.	H. A. Schapers H. P. Stahr. J. Elessel W. Johnson, V. Josten. John F. Boyken	Britt. Crystal Lake Garner Kanawha. Klemme. Woden.	G. G. Kolthoff Raemus O. Raemusen C. R. Conway O. W. Albright A. D. Gimer Goo. Breen	Britt Crystal Laka Garner Kanawba Klemma Woden
Hardin County— Arckey Creatory — Alden Co-operative Creatnery Co Cleves Creatnery Co Cleves Creatnery Co Edors Creatnery — Hubbard Creatnery — The Jown Falls Creatnery — Built & Co	Ackley Alden Cleves Radoliffe Eldora Hubbard Iows Falla Iowa Falla	R. R. Hadley E. C. Edwards W. F. Sharp Geo. Wick Herbert Soballe H. K. Granner R. J. Mason, C. A. Peacook	Ackley Alden Adkey Radeliffe Eldora Hubbard Iowa Falla Chicago	W. C. DeSelm Flord Kidd J. F. Sharp. Geo. Wick Otto Neilen James Frasher J. R. Jones. J. Buol.	Ackley Alden Cleves Radeliffe Eldora Hubbard Jows Falla Jows Falla
Henry County- Pleasant Hill Dairy	Mt. Pleasant	R. C. Campbell	Mt. Pleasant	Chas. Fankhauser	Mt. Pleasant
Howard County Cresses Creannery Co. i Elma Co-operative Creannery acount of the formation	Cresco	W. H. Eischeid. Mary T. Dunton John M. Hughes W. C. Dottal W. R. Libbey. D. Lane. A. G. Merrill J. P. Whelan T. C. Yozman & Fosse	Cresco	Frank Hall. Frank Barnes. C. C. Plummer. C. W. Chyles. J. P. Hoybenger. N. H. Graf. Ed Capper. Earl Kelly. T. C. Yeoman.	Cresco Elma Choeter Protovin Cresco Elma Elma Cresco
Humboldt County— Bode Creamery & Produce Co. c Humboldt Creamery Co. a Thor Creamery Co. a Wacousta Creamery Co. a	Bode Humboldt Thor Ottosen	H. C. Olson W. F. Priebe J. E. Lonning C. O. Lomen	Bode Chicago Thor Ottosen	Iver Thursen F. C. Koenig B. E. Lonning L. J. Brennen	Bode Humboldt Thor Ottosen
Iowa County	Marengo	Ady & Sullivan E. E. Montgomery O. W. Gode H. F. Lenocker	Marengo Williamsburg Marengo Victor	H. W. McCoy M. Greenfield H. A. Mois H. F. Lonocker	Marengo Couroy Marengo Victor

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REPORT OF COMMISSIONER

P. O. address of Buttermaker	Andrew Ballavve Maquoberta Maquoberta Maquoberta Maquoberta Maquoberta Presion St. Donatua Presion Lamotte	Newton	Pairfeld	Iowa City	Amher Annioea Cananioea Carter Junction Langworthy Monticello	What Cheer Signature What Cheer	Algena Baueroft Bart Bart Bart Barton Fenton Lakota Lakota
Name of Buttermaker	C. O. Von Rhoin C. W. Rouse C. W. Rouse C. W. Ronspan G. S. Witte A. P. Schmidtach A. J. Schmidtach Goo, P. Byrne John M. Boffman	H. Lee Stauffer	R. O. Linder	Frank Francisco	A. Bailey. Ultah Pradar Harry Johnson J. M. Woollert Pred Lehman	Wm. Williams. Sherley Soott Russ Morris.	M. P. Christianum. H. F. Thisos P. Massudder F. Massudder F. Massudder F. Matter H. W. Jarchow H. M. Dyer.
Proprinting, Scorecary or Manager	Andrew Belarwa Marpodicta Mar	Newtish.	Fairfield	Iowa City	Amber Anantom Canter Junchan Langworthy Montioello	What Cheer Signumey What Cheer	Algena, Baarookh Baarookh Baari Algena Ladota Ladota Ladota
Proprietor, Secretary or Managor	J. H. Mohlenhoff H. R. Pogennad Gao H. Bahahan L. R. Elizanan, W. A. Prestan, Mux Zhere, J. L. Heinney, J. L. Heinney, M. J. Negaran, Construction, Marking, Con	Gay M. Lamber	R. O. Linder	A. J. Ferney	0, B. Doty Barton Brown Grass Mand W. J. Ottmans C. W. Branshon	C. E. Brown. H. E. Gould. S. E. Reisman.	M. P. Ctristanen Prack B. Fangman M. E. Wangman M. E. Weishen M. E. Weishenk J. K. Sankh P. Weisman
Located at or near	Andrew - Andrew - Bellevere Bellevere - Bellevere Maquolicita. Maquolicita. Maquolicita. St. Dutartar St. Dutartar	Newton .	Fairfield	Iows City	Anthen Announce Contar Junction Langevorthy Monthoullo	What Cheer.	Algense, Datasereck, Datasereck, Bester Roburtise Estimation Labora
NAME OF CREAMERY	Jacksen County- Jacksen County- Adame Co-prentive Creanery Co. Bearen Congenstive Creanery Paramer Produce Comparison Memory Construction St. Duntus Creanery Amelition St. Duntus Creanery Amelition St. Duntus Creanery Co.	Jauyer County	Jeffernen County	Jahnsen County	Jame Dourst- Ambe Conserver Co	C. R. Brown County- C. R. Brown M. County- Geo. M. Ordin Creaning Co.	Kumth Centry- Mann Coperative Contenery Co Baron Co-pensitive Contenery Co Baron Co-pensitive Contenery Co Strates Co-pensitive Contenery Co Strates Contenery Co Genation Contenery Co

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Lone Rock Lone Rock Titonka Swea City Whittemore	Fort Madison Keokuk	Cedur Rapida Central City Coggon Springville Central City Walker	Chariton	Inwood George Rock Rapida	Winterset	Other Other	Knorville Pella	Marshalltown Cletoons Marshalltown State Center
Watson Shiek Harold Smith Jahn Povelson S. O. Rusley Albert Fenger	Frits Lampbohn	J. Thamen, Eavin R. Googe, L. C. Popenhagen L. C. Popenhagen K. B. Store A. W. Willander	Roy Adams	Jean Jacom C. A. Racomesen A. E. Robertson	F. B. Seidler	M. Gauperi Chas. Love John Cork. Barry Martin	W. H. Anderon C. F. Leuthy	Frank Hiteman. W. P. Hughen. P. J. Ohristemsen.
Lone Rock Lum Rock Tritonka Swea City Whittemore	Fort Madison Chirago	Chinatto Chinatto Coganal Chy Coganal Chy Coganal Chy Coganal Chy Madar	Chariton	framod George Boek Rapida	Winterset	Oductions. Oductions Oductions Oductions	Fella	Marshalltown Clemons Marshalltown
III. J. Christianson Otto Wichhendahl J. C. Newrlike S. V. Carter M. W. Faadel	B. K. Peter C. A. Pennock	G. T. Guthrie G. E. Crans M. L. Ware Palmer & Garynn Earl Gerrans E. R. Birnderson Thon. W. Hawkinson	Lloyd Peniek	L. B. Hoffmad C. A. Rasmussen W. J. Purchas	P. B. Seidler	M. Gauperi. L.C. Love. J. C. Roiman. Frank Clark	W. H. Anderson Ben Kayk	F. R. Jackson M. Theatain M. C. Nichen M. C. Nichen
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P. O. address of	Buttermaker Glenwood	Malveen Little Codar Omage R 4 Olange	Ricerille Osage Stacyville	Albia	Villaca	West Liberty Hartley Sheldon	Butherland Anhton Sihlev	Clarinda	Emmetaburg Emmetaburg Ruthyen Graettinger
Name of Buttermaker	C. M. Grav					w. m. Sampson.		Elmer Gustafson C	W. A. Thayer E. W. A. Thayer B. W. P. Junker B. M. P. Junker B. Henry Hansen G. G.
P. 0. address of Proprietor, Secretary or	Glenwood	Lintle Codar Obsers Obsers	Risewille. Ounge Staryville	Atton				Chicago	Emmetaburg Emmetaburg Ruthven Graettinger
Name of Proprietor, Secretary or Mananov	J. W. McKnight L. W. Bochner	Hans Larson Johns Brunner John Tuesleff M. A. Tollafaan	W. A. Schrandt W. A. Schrandt. M. H. K.	Lee Blue	Emmett Bookman	C. B. Jensen Geo. Berhave Adolch Christenson	Evert den Herder J. F. Johannee	J. A. Peacock	L. Stuchmer Minnie Vandervelde M. P. Junker Jorgen Anderson
Located at or near	Glenwood	Little Cedar Oneco Oneco Biometric Biometric	Omage Staryville Alhia	Red Oak Villan	West Liberty.	Hartley Shekton Sutherland	Auhton. Sibley	Charinda.	Emmetaburg Emmetaburg Ruthren Græettinger
NAME OF CREAMERY	Mills County	Mitchell County- Little Colar Creamery Co. Nee Barro. Creamery Co. One Co-operative Creamery Amonation I. Annee Creamery I. Annee Creamery	Rook Unter Commery Association	Montacamery County- Lee Blue Ice Cream & Botting Ca.	Muscatine County- West Liberty Co-operative Creamery	O'Bries County- Bactley Conservy Co. Stabilish Co-spensitive Creatersy.	Oscola County- Addron Creanery Co Johanne Protone Co	8	ammetory treatery to control to the second s

Graettinger Mallard Ayrthire West Bend	Laurens Pulmer Pocabontas	Des Moines Des Moines Des Moines Des Moines	Council Bluffa	Brooklyn Grinnell	Sac City	Davenport Moline, III. Davenport	Harlan Harlan Elkhorn	Alton Boyden Hall Genage City Bosza Center Hospen Hawarden	Ames
A. P. Andreson Rath, Blas. C. G. Nelson O. W. Dublas.	P. W. Jahmeen Otto Stjoten	 R. Pemberton L. S. Parre- Logd Franchen J. A. Atridge 	G. S. Superman.	G. H. Guthrie	A. G. Redman	Frank Thell Lotia Ramussen	Carl W. Anderson. E. W. Jensen.	J. P. Moaller Henry J. Wargowsky A. M. Brein F. J. Baven A. Yonker G. W. Schreeder E. Zorr	F. C. Hinse
Graatinger	Laurens. Palmer Porshontas	Des Moines. Des Moines. Oradas, Nebr. Chicago, III.	Council Bluffs	Brooklyn	See City	Davenport Galeaburg, III. Davenport	Harlan Harlan Exim	Alton George George And Cranter Biont Center Howev Rearbin Reack Valley	Ашев
A. P. Anderson C. L. Carmichael C. G. Nelson A. L. Frys	R. V. Neville. Ed. Johnson. Gust Webler.	F. C. Wright. J. F. Dawson J. M. Havling. C. A. Pescock	Fred E. Hurd	G. H. Guthrie.	H. F. Lange	M. V. Jones. E. E. Amos. P. J. Lyngholm	John Rasmussen O. G. Ruftoora.	Moeller & Lucas L. C. H. Vagta. L. W. Suit- Frank Noteboom. A. Yanker. A. Yanker. R. Zur- B. Zur- B. Zhy	M. Mortensen
Grantlinger Malhed Ayrabire West Bend	Laurens. Palmer	Des Moines. Des Moines. Des Moines. Des Moines.	Council Bluffs	Brooklyn Grinnell	Sac City	Davenport Daveaport Daveoport	Harlan Harlan Elk Horn.	Alton. Boydan. Boydan. Dange City. Orange City. Sioux Center Boyden. Herenden.	Ames
a fast lided Mallard Constructy	Preadmentant Country— Latrenea Co-pertitive Creamingr Co.	Polit County— Bastrier Orsenary Company. Da Moline Creanary Company. Da Moline Creanary Company. Swift & Company.	Pottawattamie County	Powenhiek County- Brooklyn Creamery Co. Mapleituret Dairy Company	Sae County	Soott County	Bathy County— Buck Valop Company Company Company Company Company Con- Harlan Reé Creamery Co	Sioux Opentyca Micro Chemycy Chargenary Alton Creamery Chemycry Moreaction Enzone Cheopresity Creamery Americation Enzone Matual Co-opensive Americation Enzone Matual Co-opensive Commery Co Enzone Matual Co-opensive Commery Enzone Commery Commery Enzone Commery Commery Enzone Commery Commery Enzone Commerce Commerce Commerce Commerce Enzone Commerce Commerce Commerce Commerce Enzone Commerce Commerce Commerce Commerce Commerce Enzone Commerce Commerce Commerce Commerce Commerce Enzone Commerce Commerce Commerce Commerce Commerce Commerce Enzone Commerce Com	Story County- Dairy Department lows State College

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P. O. address of Buttermaker	Slater Huxley Nevada Roland Story City Zearing	Garwin Tama Traer	Bedford	Afton Creston Creston	Ottumwa Ottumwa Ottumwa	Brighton Washingto	Humeston	Fort Dodge Fort Dodge Gowrie	Buffalo Center Forest City
Name of Buttermaker	C. Clark O. A. Jensen Showden Clary L. M. Cartsen L. M. Gertsen Carl M. Peterson	Dale Shehdon Chris Christensen L. Nielsen	Leslie Klopp	V. O. Williams C. B. Lane Harry McAllister	P. N. Keltner C. J. Bartlett. Jens Jeusen.	Neal G. Whisler	M. W. Bixby	B. Jensen R. Denoker Chris Sorenson	H. P. Engen Sorea Kristensen
P. O. address of Proprietor, Secretary or Manager	Slater Huxley Normda Rormda Story City Zearing	Garwin. Tama. Traer	Bedford	Afron Creation Creation	Ottumwa. Ottumwa. Ottumwa.	Brighton Washington	Humeston	Fort Dodge Fort Dodge Gowrie	Buffalo Center
Proprietor, Scenetary or Manager	J. H. Wald Sem Maland C. C. Contri & C. H. Case, C. E. Rold Martin C. Hanson C. P. Bean	Dale Sheldon . J. H. Neil Nielsen Bros	Frank Duming	V. O. Williams. J. I. Boyd. Ray Peterson.	F. G. Buxton, P. A. Erickson, R. N. Morrell,	Neal G. Whisler	J. L. Humphrey	A. B. Sayler S. H. Dencker F. E. Magmussen	E. B. Bruhme.
Located at or near	Slater Huxley Nerada Rohada Blory City Zearting	Garwin Tana Thaer	Bedford	Afton Creston Creston	Ottumwa Ottumwa Ottumwa	Brighton	Humeston	Fort Dodge. Fort Dodge. Gowne.	Buffalo Center Forest City
NAME OF CREAMERY	Farmers Osopenstive Orenamy Co. Hadoy-Paners Co-poperative Oceanary Co. Hadoy-Paners Co-poperative Oscial Co. Reada Panerso Comensy Co. Stater Of Variante Orenamery Co.	Tama County Garein Conney	Taylor County-Betford Creamery Company	Union County Afton Creamery Company Boyd Creamery Company	Wapello County	Wahington County Brighton Creamery Company	Jas. L. Hunphrey, Jr.	Webster County	Winnehango County- Buffalo Contec Co-operative Creamery

Lako Mille Leiand Rako Searville Thompson Searville	Burr Oak Calmar Calmar Desorth Fostina Fostina Ridgirway Belorrah, R2 Desorth, R2 Desorth	Shoux City Shoux City Shoux City Shoux City	Northwood Grafton Grafton Kensett Many Haulottown Northwood Joice	Clarion Belmond Down Goldfield	p Partnership
Carl Hovhaud W. M. Tweeten W. M. Tweeten E. R. Bjorke Bennett Jorik Jannes Mytr Gay Hovhaud	Floyd Farris 1. H. Bakken N. O. Bandickon Pollin, Jasco Gondin, Jasco Gondiny J. Baken J. Baken J. Challey C. C. Lange O. O. Hange	C. L. Smith John Bathen M. O. Wheelock	Louis H. Beach H. C. Steedal H. C. Steedal Jos (Gilbertson, J. A. Johnson, J. A. Johnson, K. A. Godvangen N. O. Dablen Oliver Kvalo	C. W. Larson C. H. Jennings A. O. Larson John Roberts	lat
Lake Mille Leland Reards Rake Starrile Thompsen Starrille	Burr Oak Catanar Deatana Deatana Deatana Eise Atkinen Eise Atkinen Eisen State Berenah, RT Decenah, RT	Chicago, III. Ottadua, Nebr Stoux City.	Northwood Kennert Cention Kennert Manly Hankottoen Northwood Jone	Clarion. Belmond. Down. Goldfield.	i Individual
Ole T. Gree O. Mcharelson O. Mcharelson J. E. A. Bhrnataon A. T. Keil Altert C. Englebretson	A. C. Eriekson A. O. Eriekson A. A. Okuri- a. B. Kuuker L. B. Kuuker Geo, Barona Bible & Arr W. O. Bue- W. Laurevol H. P. Nicholen	G. T. Guthrie L. E. Hurts J. H. Whittemore	Oliver Kantaon Oliver Kantaon O. K. Starres E. M. Glassell Hiltone Gaarber G. J. Maren E. A. Oudvangen E. E. Breen	M. Anderson G. F. Euler H. J. Ivenson John Roberts.	s Stock.
Lake Mills Lake Mills Rake Stake Thompson Starville	Burr Oak Gunar Devenah Devenah Ferti Akinen Ratherey Stopenah Devenah Devenah	Sioux City Sioux City Solux City	Northwood Northwood Carlton Kontet Many Ferdio Hanlottowa Hardiado	Clarion. Belmond Dows Goldfield	Co-operative
Late Mills Creamery Company Latent Mills Creamery Company Latencia Cooperative Creamery Co	Writienblick County- Burrow Resumer Cooperative Creatury Co	Woodbury County- Blue Valley Connery Co- Fairment Creannery Co- Fairment Creannery Co- Hanford Produce Company	Worth Courty- Rames Butter & Outser Association of Tendid a Paramest Co-operative Crys. Association of Tendid a Paramest Coensery Paramest Coensery Company Paramest Creanery Parameter Creanery Parameter Creanery Parameter Creanery Parameter Company Parameter Company P	Wright Courty- Clarino Creamery Con Emitter Cocompany Farmers Conquary Farmers Conquary Goddeld Cooperative Creamery	*Central churning plant, c

82

					Number of State
Name of factory	Location	Name of Proprietor	Address of Proprietor	Name of Cheesemaker	Address of Cheesemake
Allamakee Caunty	c Postville. c Dorchester s Monona, R2	F. I. Clark, Secretary T. J. Fitzgrahd, Mgr. Dorchester Mrs. Dell Rose, Sec. Luman, R2.	Postville. Dorchester Luana, R2	E. E. Austin. Otto Stemhart. R. Gerber.	Postville Dorchester Monona, R2
Humboldt County Pioneer Cheese Factoryi	.i Renwick	W. F. Keller, Prop Renwick.	Renwick.	W. F. Keller	Renwick
Story County- Nevada Cheese, Ice Cream, Butter Cop	p Nevada	A. Contri & C. H. Chase.	Nevada	8. Palmieri	Nevada
*Closed temporarily. iIndividual.	al.				

Name of factory	Location	Name of Proprietor	Address of Proprietor
Carnation Milk Products Company Wave	riv.	Paul D MaKas Constant	

STATE OF IOWA 1922

REPORT OF THE

State Mine Inspectors

FOR THE

Biennial Period Ending December 31, 1921

INSPECTORS

W. E. HOLLAND, Albia, Iowa R. T. RHYS, Ottumwa, Iowa EDWARD SWEENEY, Des Moines, Iowa L. E. STAMM, Secretary, Des Moines, Iowa

> Published by THE STATE OF IOWA Des Moines

84

CONDENSED MILK LIST

10 20

DAIRY AND FOOD DEPARTMENT