

REPORT  
OF THE  
BOARD OF  
DENTAL EXAMINERS  
OF THE  
STATE OF IOWA

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PRINTED BY AUTHORITY OF THE GENERAL ASSEMBLY

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1908

RECORDS  
BOARD OF  
DENTAL EXAMINERS

STATE OF IOWA

MEMBERS AND OFFICERS OF THE STATE BOARD.

- 
- E. H. BALL, D. D. S., President.....Tama  
Term expires in 1910.  
Examiner in Anatomy, Chemistry, Metallurgy and Physiology.
- 
- W. H. DEFORD, D. D. S., M. D.....Des Moines  
Term expires in 1909.  
Examiner in Materia Medica, Therapeutics, Anesthesia and Pathology.
- 
- G. N. BREMER, D. D. S.....Mason City  
Term expires in 1911.  
Examiner in Prosthetic Dentistry, Oral Surgery and Orthodontia.
- 
- F. H. RULE, D. D. S.....Ackley  
Term expires in 1912.  
Examiner in Bacteriology, Histology and Hygiene.
- 
- E. D. BROWER, D. D. S., Secretary.....LeMars  
Term expires in 1913.  
Examiner in Operative Dentistry and Jurisprudence.

## REPORT

*To His Excellency, Honorable Albert B. Cummins, Governor of Iowa:*

In accordance with the provisions of section 2600-h, Code of Iowa, as amended by the Thirty-first General Assembly, I have the honor to submit the second report of the Board of Dental Examiners of Iowa.

At the annual meeting of the board in May, Dr. E. H. Ball was elected president and Dr. E. D. Brower, secretary. Through the recommendation of the state society you have re-appointed Dr. F. H. Rule of Ackley in 1907 and E. D. Brower of Le Mars in 1908 to succeed themselves thus leaving the board membership the same as it was two years ago.

During the past two years the board has held two meetings each year for examination of applicants for license. During the two years 182 made application for examination; three for interchange license under the Reciprocity Clause. We have issued sixteen renewal licenses; sixteen duplicate licenses; eighteen exchange certificates; three interchange licenses; 162 by examination.

In the four examinations held thirty-four failed on first examination; two on second examination and one on the third examination. A more thorough examination of applicants for license has been established. The passing grade has been placed at 80 per cent; practical examinations have been established in operative and prosthetic dentistry.

We herewith present an alphabetical list of the registered dentists of the state making a total of 2,208 licenses issued by the board since its creation in 1882, not including duplicates and renewals; also a list by counties as furnished the secretary by one dentist in each county; this list should be practically correct. It contains 1,132 names which should be the exact number of dentists practicing in Iowa at this date, October 1, 1908.

We would ask your assistance in the coming session of the legislature in the passage of a bill to be presented by the state society,

providing for the exemption of dentists from jury duty. Also to provide for the appointment of dentists to the state institutions.

The board asks that they be re-imbursed for moneys charged off their account by the state August 10, 1907, to the amount of \$988.98 there being only \$95 in the treasury at the present time and the July, August, September, 1908, bills are still unpaid.

#### RECIPROCITY.

The Thirty-first General Assembly made provision for interchange of license, chapter 116, sections 1 and 2. Under this law we have made contracts with ten states for interchange of license as follows: Vermont, New Jersey, District of Columbia, Nebraska, Kansas, Oklahoma, Ohio, Indiana, Michigan and Minnesota. The last four make the provision that the applicant must pass a satisfactory examination in practical work, waiving the written examination. The first six waive both practical and written examinations.

A great many dentists fail to grasp the idea of exchange fully. A dentist must practice five years in a state before he can get the exchange certificate to go to another state. He must remain in that state five years before he can receive the exchange certificate to go to another state.

The holding of a license in Iowa but practicing in another state does not entitle the holder to an exchange certificate from this state. He must be in continuous practice in this state for at least five years immediately preceding his application for exchange certificate.

#### ENFORCEMENT OF THE LAW.

With the closing of another biennial period, that while there has been a number of violations of the law, all have been adjusted without appealing to the courts. The general public has been more thoroughly protected from charlatans and irresponsible dentists.

There are today very few if any dentists practicing without license, while four years ago there were over one hundred. At present to the secretary's knowledge there is no one practicing in Iowa without a license, except a few of the recent graduates that failed at the last examination and have opened offices supposing they had that privilege until the next examination. These men are being closed up as fast as complaints are received at this office.

The practicing dentist should be encouraged on ethical grounds to do his best work for his patients. Many who come to him for relief from their positions in life and lack of educational advantages are not able to differentiate between honest and indifferent services trusting implicitly in the opinion and advice of the operator. Therefore, the law steps in and under its munificent policy through boards of health, medical and dental laws, the interest of the humblest is protected.

#### STATE DENTAL SOCIETY.

The State Dental Society has been reorganized, establishing thirteen districts, each district having its own officers but under the control of the state society. A dentist must be a member of his district society to become a member of the state society, *i. e.* Membership in a district society carries with it membership in the state society. At the end of the first year's trial the attendance at the state society was more than three times as great as the largest meeting ever held before.

The prediction is that the district society will be of greater benefit in building up the standard of dentistry in Iowa, and it is hoped the advertiser and disreputable practitioner will be forced out of Iowa or be compelled to resort to honest means and methods of practice.

We respectfully submit this report for your consideration.

E. H. BALL, *President.*  
E. D. BROWER, *Secretary.*  
F. H. RULE.  
G. M. BEEMER.  
W. H. DEFORD.

## TO THE DENTISTS OF IOWA.

In preparing this report the secretary is under obligations to one dentist in each county for the list by counties.

The alphabetical list has been corrected as far as possible. In case a dentist has moved away and I have been unable to find his address, I have left it at the last known address.

In case of deaths I know the list is imperfect. This will take the assistance of the dentists of the whole state especially of the older men. I called your attention to this two years ago but the list is still far from correct.

In this report you will find the list as it appears on our books. During the next two years the list can be made absolutely correct by a little attention by friends and neighbors of those that have gone.

There is one thing that I wish to speak of especially. This report in the future will be issued every two years by the state. In the past it depended on the board to pay for it out of their own money or let it go.

Now, do you want a correct list? If so, when you change your address, tell the secretary. If you do not get the report it is your own fault because the secretary does not know where you are. There were quite a number of the last reports returned to me.

I wish to personally call your attention to the proposed legislation this winter. First, the exemption of dentists from jury duty. Second, the appointment of dentists to the state institutions. This is in the hands of the legislative committee of the state society. See that your representative and senator favor such legislation.

Respectfully,

E. D. BROWER, *Secretary.*

## FINANCIAL STATEMENT.

## RECEIPTS.

July 1, 1906. Cash balance in hands of state treasurer .....	\$ 563.11
July 1, 1906. Cash balance in hands of treasurer of board.....	900.00
July 1, 1906-July 1, 1908. Received for 16 renewal licenses.....	400.00
July 1, 1906-July 1, 1908. Received for 16 duplicate licenses.....	32.00
July 1, 1906-July 1, 1908. Received for 18 exchange certificates.....	90.00
July 1, 1906-July 1, 1908. Received for 3 interchange licenses...	75.00
July 1, 1906-July 1, 1908. Received for 183 examination fees....	3,650.00
<b>Total .....</b>	<b>\$5,710.11</b>

## DISBURSEMENTS.

July 1, 1906. Cash balance in hands of state treasurer.....	\$ 563.11
July 1, 1906-July 1, 1908. Cash deposited with state treasurer..	4,152.00
June 30, 1908. Cash in hands of treasurer of board.....	995.00
<b>Total .....</b>	<b>\$5,710.11</b>
Aug. 10, 1907. Charged off by state as surplus for 1905-6.....	\$ 988.98
July 1, 1906-July 1, 1908. Expenses of the board.....	\$4,625.88
July 1, 1908. Cash balance in hands of state treasurer.....	\$ 95.25

## TABULATION OF DENTAL EXAMINERS EXAMINATIONS.

The tabulation consists of a record of the results of the dental examiners examinations of applicants for a license to practice dentistry. It is a systematic record of the annual reports of the secretaries of the state boards in the United States. Therefore, to the secretaries of the boards making these reports is the credit largely due for the work accomplished.

The tabulation covers a period of five years. From twenty-six to thirty-six state board of dental examiners reported each year. The first year 1,304 examinations were tabulated, 892 passed, 412 failed. It will thus be seen that thirty-one per cent or nearly one-third of the applicants were judged unfit to practice dentistry. Last year (1908), 2,048 applicants were examined by twenty-six boards who reported and 440 failed to meet the necessary requirements. Twenty-one per cent failed. In other words, the work of tabulation had stimulated the work of dental education to such an extent that ten per cent more dentists were qualified to practice and the efficiency of the services rendered to the public was correspondingly raised. Out of the twenty-one per cent of applicants who failed in 1908, *sixteen* per cent were dental college graduates.

In five years' tabulation 8,151 examinations have been compiled, 6,122 applicants passed and 2,029 failed to meet the requirements of the state before whose board they presented themselves for examination.

Can you produce any better evidence of the efficiency of state boards of dental examiners than the following:

First: They attend to their business without compensation.

Second: They examine candidates intelligently and impartially.

Third: They keep a systematic record of their examinations.

Fourth: They have increased the efficiency of dental education ten per cent.

Over sixty per cent of the graduates of the following dental colleges passed the dental examiners in the United States:

Ann Arbor Dental College, or University of Michigan, Ann Arbor, Mich.  
 Atlantic Dental College, Atlanta, Ga.  
 Baltimore College of Dental Surgery, Baltimore, Md.  
 Baltimore Medical College, Baltimore, Md.  
 Birmingham Dental College, Birmingham, Ala.  
 Boston Dental School, Tuft's Medical College, Boston, Mass.  
 Buffalo University of Buffalo, N. Y.  
 California University, Dental Department, San Francisco, Cal.  
 Chicago College of Dental Surgery, Chicago, Ill.  
 Cincinnati College of Dental Surgery, Cincinnati, Ohio.  
 Colorado College of Dental Surgery, University of Denver, Denver, Colo.  
 Columbia University, Washington, D. C.  
 Georgetown University, Dental Department, Washington, D. C.  
 Harvard University, Boston, Mass.  
 Illinois University, Chicago, Ill.  
 Indiana Dental College, Indianapolis, Ind.  
 Iowa State University, Iowa City, Iowa.  
 Kansas City Dental College, Kansas City, Mo.  
 Keokuk Medical College, Dental Department, Keokuk, Iowa.  
 Milwaukee Medical College, Milwaukee, Wis.  
 Minnesota, University of, Minneapolis, Minn.  
 Missouri Dental College, or Washington University, St. Louis, Mo.  
 Medico-Chi College, Dental Department, Philadelphia, Pa.  
 Maryland University, Baltimore, Md.  
 New Orleans Dental College, New Orleans, La.  
 New York College of Dentistry, New York, N. Y.  
 New York Dental School, or College of Dental & Oral Surgery, New York, N. Y.  
 Northwestern University, Chicago, Ill.  
 Ohio College of Dental Surgery, Cincinnati, Ohio.  
 Ohio Medical University, Dental Department, Columbus, Ohio.  
 Omaha, University of, or Creighton University, Dental Department, Omaha, Neb.  
 Pittsburg Dental College or Western University of Pennsylvania, Pittsburg, Pa.  
 Physicians and Surgeons College, Dental Department, San Francisco, Cal.  
 Philadelphia Dental College, Philadelphia, Pa.  
 Pennsylvania College of Dental Surgery, Philadelphia, Pa.  
 Pennsylvania, University of, Philadelphia, Pa.  
 University College of Medicine, Richmond, Va.  
 Southern Dental College, Atlanta, Ga.  
 Southern California, University of, Los Angeles, Cal.  
 St. Louis Dental College, Marlon-Sims, Mo.  
 Vanderbilt University, Tennessee.  
 Western Reserve University, Cleveland, Ohio.

ALPHONSO IRWIN, D. D. S.,  
 Chairman Tabulation Committee.

LAWS GOVERNING THE PRACTICE OF DENTISTRY IN  
THE STATE OF IOWA.

CHAPTER 19A.

Section 2600-a. Repeal. That chapter nineteen (19) of title twelve (12) of the code be and the same is hereby repealed, and the following enacted in lieu thereof: (28 G. A., Ch. 91, No. 1.)

Sec. 2600-b. Board of Examiners—how appointed—term. The board of dental examiners shall consist of five practicing dentists, who shall have been engaged in the continuous practice of their profession in this state for the period of five years preceding their appointment, one of whom shall be appointed annually by the governor, and hold office for the term of five years from and after the first day of August following his appointment, and until his successor is appointed. The Iowa State Dental Society shall, at the request of the governor, submit a list of dentists of recognized ability, from which he may select the member of the board to be appointed. All vacancies occurring in the board shall be filled in like manner, and the appointee hold office for the unexpired term of his predecessor. All members of the present board shall continue in office under this act until the expiration of their respective terms of office. (28 G. A., Ch. 91, No. 2.)

Sec. 2600-c. Officers—meetings—quorum. The board shall organize by selecting one of its members as president, one as secretary and treasurer, and shall meet at least once each year, and at such other times as it may deem necessary, and at such place as it may select. A majority of the board shall constitute a quorum, and its meetings shall at all reasonable times be open to the public. (28 G. A., Ch. 91, No. 3.)

Sec. 2600-d. Examinations—license—record books—fees. The board shall at any regular meeting, and may at any special meeting, examine applicants for a license to practice dentistry as to their knowledge and skill in dental surgery, and shall issue to such ap-

plicants as are found to be qualified a license authorizing them to practice dentistry. The license shall be signed by each member of the board, attested by the president and secretary, and have the seal of the board affixed thereto; and shall be presumptive evidence of the right of the holder to practice dentistry in the state. The name, age, nativity, location, number of years of practice of the person to whom license is given, the number of the license and the date of the registration thereof shall be entered in a book kept in the office of the secretary of the board, which shall be open to the inspection of the public, under proper restrictions as to its safe keeping, and the number of the book and page containing such entrance shall be noted on the face of the license. Each applicant shall be a graduate of a reputable dental school, which is recognized as such by the board of dental examiners, and pay to the board a fee of twenty dollars before a license is issued. (28 G. A., Ch. 91, No. 4.)

Sec. 2600-e. Testimony—rules—regulations. The board shall have authority to take testimony in relation to all matters within its jurisdiction and the presiding officer thereof, or of any committee; and it may take and adopt all necessary rules, regulations and by-laws not inconsistent with law necessary to enable it to perform the duties and transact the business authorized and required by this act. (28 G. A., Ch. 91, No. 5.)

Sec. 2600-f. Treasurer to give bond. The treasurer shall, on assuming the duties of his office, file with the secretary of state, a good and sufficient bond in the penal sum of one thousand dollars, conditioned for the faithful discharge of his duties; and shall keep a full and accurate account of all moneys received by him under the provisions of this act. (28 G. A., Ch. 91, No. 6.)

Sec. 2600-g. Compensation. Each member of the board shall receive the sum of five dollars for each day he is actually engaged in the duties of his office, with the actual expenses incurred by him in discharge of such duties, and the treasurer shall receive a salary not exceeding three-hundred dollars per annum for his services as secretary and treasurer, which amounts shall be paid out of the fund received by the board under the provision of this act, and from no other fund or source. (28 G. A., Ch. 91, No. 7.)

Sec. 2600-h. Biennial report. The board shall make a biennial report to the governor of its proceedings, including a full and accurate account of all moneys received and disbursed, and shall pub-

lish said report with a list of dentists licensed to practice in the state. (31 G. A., Ch. 91, No. 4.)

Sec. 2600-i. License filed for record with clerk of district court—fee. Every person to whom a license is issued shall file the same for record with the clerk of the district court in the county in which he desires to practice dentistry and the clerk of the court shall be entitled to a fee of fifty cents for recording such license; and failure to file such license for record within one year after it is issued by the board shall work a forfeiture thereof and said license shall not be restored by the board except upon the payment to it of the sum of twenty-five dollars as penalty therefor. (31 G. A., Ch. No. 3.)

Sec. 2600-j. Penalty. It shall be unlawful for any person to practice dentistry in this state without having complied with the provisions of this act and any person who shall violate the provisions thereof shall be deemed guilty of a misdemeanor and upon a conviction shall be punished by a fine not exceeding two-hundred dollars or imprisonment in the county jail not more than forty days or by both such fine and imprisonment. (28 G. A., Ch. 91, No. 10.)

Sec. 2600-k. Who not eligible to appointment on board. No member of a dental college faculty, or no person connected therewith shall be eligible to an appointment upon the state board of dental examiners. (28 G. A., Ch. 91, No. 11.)

Sec. 2600-l. Provisions as to physicians, dental students, and registered practitioners. Nothing herein shall be construed to prevent any surgeons from extracting teeth in the practice of their profession or to prevent *bona fide* students in dentistry, in the regular course of their instruction, from operating upon patients at clinics, or under the supervision and in the presence of their preceptors, but no fee or salary for such operations shall be received, either directly or indirectly by any such student of dentistry. And nothing herein shall be construed to prohibit the practice of dentistry in this state by any practitioner who has been duly registered in accordance with the laws of Iowa existing prior to the passage of this act; or any person who is a member of an incorporated society or community and practicing dentistry solely for and among the members of such community or incorporated society without charge or compensation. (28 G. A., Ch. 91, No. 12.)

Section 1. Reciprocity. The board of dental examiners may, without examination, issue license to practice to any dentist who shall have been in legal practice in some other state or territory for a period of at least five years, upon the certificate of the board of dental examiners or a like board of the state or territory in which such dentist was a practitioner; certifying his competency and that he is of good moral character and upon payment of twenty-five dollars (\$25.00). Provided, however, that the state from which any practitioner may come shall have, and maintain equal standard of laws regulating the practice of dentistry and recognize exchange certificates issued by the board of dental examiners of the state of Iowa. (31 G. A., Ch. No. 1.)

Sec. 2. Exchange certificates. Any duly licensed dentist of the state of Iowa who is desirous of changing his residence to that of another state or territory shall, upon application to the board of dental examiners and the payment of a fee of five dollars (\$5.00), receive a certificate which shall attest that he is a duly licensed dentist of the state of Iowa. (31 G. A., Ch. No. 2.)

#### CHAPTER 7.

#### FEES AND EXPENSES OF STATE OFFICERS, BOARDS AND COMMISSIONS.

*Be it Enacted by the General Assembly of the State of Iowa:*

Section 1. Fees. That all boards, commissions, departments and officers of state, elective or appointive, shall turn into the state treasury on or before the fifteenth day of each month all fees, commissions or moneys collected or received during the preceding calendar month with an itemized statement of sources from which received; and shall also file with the auditor of the state a duplicate of such statement; provided, however, that the provisions of this act shall not apply to the state agricultural society, regents of the state university, trustees of the state college of agricultural and mechanic arts and of the state normal school, horticultural society, supreme court reporter and inspector of passenger boats. (30 G. A.)

Sec. 2. Statement of per diem and expenses. That all members of boards, commissions or departments of state, and all state officers, who are authorized to contract expense accounts in the service of the state, and all who are allowed a per diem for services instead of a fixed compensation, shall, on or before the end of each month file with the secretary of the executive council an itemized



and sworn statement of all expenses and days' service, with dates and amounts for the preceding calendar month. (30 G. A.)

Sec. 3. Approval—how paid. That the executive council shall examine all statements referred to in section two (2) of this act that shall have been filed with the secretary of the council and for all items of per diem and expenses approved and amounts allowed by a majority of said council, the auditor of state shall draw warrants payable by the treasurer of state out of such funds as are now, or may hereafter be, provided by law. The treasurer of state and auditor of state shall each keep an account of the moneys paid in under the provisions of this act and where the law now provides or may hereafter provide, that the amounts allowed for per diem and expenses shall be limited to or paid from fees collected, the auditor's warrant shall be drawn against the funds realized from such fees and shall not exceed the amount thereof. (30 G. A.)

Sec. 4. Acts in conflict repealed. All acts or parts of acts in conflict with this act are hereby repealed. (30 G. A.)

Approved April 13, A. D. 1904.

## RULES AND REGULATIONS.

### COLLEGES.

Every dental college or dental department of a university shall publish as its preliminary educational requirements those laid down by this board and we suggest shall so state and publish in its annual announcement.

Rule I. Preliminary qualifications for entrance as freshman on and after the school year 1906-07 not less than graduation from an accredited high school or its equivalent so attested by state superintendent or equivalent officer that applicant did at his or her entrance possess education equal to an accredited high school which certificate shall (or may) be accepted in lieu of such diploma and same may be recognized by this board.

Rule II. Full courses of didactic and clinical instruction shall consist of not less than thirty-two (32) weeks of six (6) teaching days each week, or twenty-six (26) weeks of six (6) teaching days each week exclusive of holidays and vacations covering a period of three or four (3 or 4) academic years respectively. Course of study shall consist of the following subjects, viz.: Anatomy, Physiology, Chemistry, Histology, Metallurgy, Pathology (Gen. spec.), Hygiene, Materia Medica, Anesthetics, Therapeutics, Bacteriology, Oral Surgery, Operative Technics, Prosthetic Technics, Operative and Clinical Dentistry, Prosthetic Dentistry and Orthodontia. Quizes must be held at least once each month in each branch.

Attendance upon the entire course as named will be insisted upon. Deductions not exceeding 20 per cent allowed for unavoidable absence, may be extended; 20 per cent in case of *bona fide* illness, properly attested by reputable physician, provided all studies are satisfactorily made up.

Rule III. Colleges must have proper facilities and equipment for teaching each subject of the course, must provide thorough and

adequate instruction to its students and its clinical infirmary must be conducted along strictly ethical lines.

Rule IV. Each dental college must have a teaching faculty of at least six persons licensed practitioners of dentistry in good standing in the profession and teaching the subjects named in these rules, provided that the basic studies may be taught by experts in those subjects who may not be dentists.

Rule V. No college shall give credit for time to a student later than ten days after opening of session, provided time may be extended to twenty days in case of illness attested by reputable physician.

Rule VI. Colleges may receive into advanced grades only those students who have duly passed freshman or junior examinations. Students having passed such examination shall have mailed them within thirty days after such session, duly certified certificates, provided all obligations and requirements have been fulfilled, such certificates to be pledge to any college recognized by this board that the requisite number of terms had been spent in the institution issuing the certificate giving list of studies passed.

Rule VII. This certificate shall by correspondence be verified by the college to which a student may apply for admission. Without such certificate no student shall be received by any college recognized by this board for admission to advanced grades, and only on such conditions as would have been imposed by the original college, and these may be ascertained by conference or correspondence.

STANDING OF STUDENTS HOLDING CERTIFICATES FROM COLLEGES IN  
FOREIGN COUNTRIES.

Rule VIII. Persons holding certificates from colleges of dentistry in foreign countries, shall be required to furnish properly attested evidence of study, attendance upon lectures, examinations passed satisfactorily, etc., the same as is required of students coming from institutions in the United States.

Students coming from foreign countries who speak the English language may be given credit for the time passed in any foreign college recognized by this board. No student coming from any foreign country shall be received as a student in course with the view of final graduation and given advanced standing by any college until his credentials shall have been approved by the proper authorities of the country from which he claims to have come.

ADVANCE STANDING AND ADMISSION OF GRADUATES OF MEDICINE.

Rule IX. Advance standing in the classes shall not be given students except in the following instances:

First. Where a student shall have taken a full course in a school recognized by this board and shall have successfully passed the required examination.

Second. When a student shall present evidence of graduation from a reputable medical college he may receive one year's advance standing in a dental school.

Rule X. Examinations conducted by colleges shall be in the English language only.

Rule XI. Any student who is suspended or expelled for cause from any dental college shall not be received by any other dental college during that current session. In case the action of the first college is expulsion, the student shall not be given credit at any time for the year's course from which he was expelled. Any college suspending or expelling any student shall at once notify all other dental colleges of its action. Students are required to obey the laws regulating the practice of dentistry.

Rule XII. Colleges shall each year issue announcements containing lists of their students classified in the grades of freshman, junior and senior; designating absentees, irregulars and specials, and giving a list of graduates of the preceding sessions.

Rule XIII. No dental college shall confer any degree as honorary, which is usually granted in due course of study and after examinations.

Rule XIV. No credit for the time of study pursued in any dental college not recognized as reputable by this board shall be allowed by any dental school.

Rule XV. There shall be graded courses of instruction, each course to be followed by examination thereon.

Rule XVI. Candidates for graduation must have completed the regular course of lectures as above stated, and must have passed satisfactory examination in the studies named in these rules and any additional studies named in the college curriculum schedule. They must also furnish creditable evidence of having complied with Rules I, II, XI and XVI. Schools must not graduate students who have failed in more than one study of the regular course or

who at the time of graduation have not succeeded in completing 75 per cent of the required clinical operative, and prosthetic work.

Rule XVII. A graduate of a recognized dental college, who applies to another college for its degree, shall complete one full year course or more of instruction in said college and comply with the requirements of the senior class or its equivalent.

Rule XVIII. The president or the board of dental examiners may appoint a committee or committees to investigate any complaints or charges against a recognized dental college, or any other matter that may in any way come to his or their knowledge which in his or their opinion may require investigation.

Rule XIX. Colleges will be recognized or recommended only when there has been actually secured by purchase or lease, and fitted up with all required equipment, a sufficiently commodious and convenient building or part of building entirely adequate to the needs of reputable dental college. Such equipment shall include not only the laboratories, etc., with proper chairs, benches, and all other apparatus required for complete, practical dental instructions; but also the rooms and fittings necessary for scientific training, with apparatus necessary for the proper teaching of Bacteriology, Histology, Microscopy, Chemistry, and such other scientific studies as should form a part of an advanced dental curriculum of study, and as are required by these rules.

The character and attainments of its faculty, which must already have been named with the respective positions they are to occupy, must be such as to give assurance that the school will be conducted in a manner to insure complete and adequate instruction in all branches of a good dental curriculum of study.

Rule XX. Credit shall not be given colleges recognized by this board for courses of instruction which do not commence in the morning and continue through the day.

Rule XXI. In the publication of names of students in the annual announcements of colleges recognized by this board, those students who have been transferred during the session shall be indicated. All certificates of preliminary educational qualifications of such students before being accepted shall be verified by correspondence with the authorities issuing said certificates.

Rule XXII. A careful arrangement of the curriculum is recommended. Proper records shall be kept of the attendance, examina-

tions, markings and standing of each student for reference for at least one year after graduation.

Rule XXIII. Colleges, in order to obtain recognition, must through their officers, make application to the board, accompanying it with authentic copies of the announcements, schedules of lectures, quiz and examination question, or so much of them as the board may require, to form an intelligent judgment, and there should also be furnished a statement of the equipment and facilities of the institution, and its legal status in other states, particularly its home state, if not located in Iowa.

Rule XXIV. Although a college may have been recognized by this board as reputable, the board reserves the right to withdraw such recognition at any time, when it may deem it for the best interests of the public to do so. The failure of any college to live up to its profession and published announcements may involve such withdrawal of recognition. The president and secretary of the board are authorized to suspend such recognition pending an investigation, when any charge or facts come under their observation affecting the standing of such colleges. In addition to the minimum requirements established by the board, colleges will be held to a strict compliance with all their own published requirements, and to the observance of all rules which they profess to observe and any material deviation therefrom coming to the knowledge of the board may be held sufficient grounds for suspension of recognition, as above stated.

Rule XXV. No college shall be, or continue to be, recognized by this board if said college is managed or conducted in whole or in part by any person or persons who do not practice dentistry in accordance with well recognized and generally accepted forms, usually known as dental ethics; or if owned in whole or in part by men or women who are engaged in disreputable dental practice or having upon its list of trustees, in its faculties, among its demonstrators, or in any capacity, anyone who does not practice dentistry in accordance with principles above mentioned. And no college shall be or continue to be recognized by this board which by itself or any member of its faculty or by any of its officers, trustees, directors or agents shall be found guilty of the sale of a diploma or diplomas or any degree or certificate of merit in scholarship or standing which has not been earned in due course. The judgment and conclusion of the board of examiners, upon all questions arising under these

rules, shall be absolutely final and conclusive as to all parties concerned, unless reversed by the decision of a court of competent jurisdiction.

Rule XXVI. Any person desiring to practice dentistry in the state of Iowa, who is a graduate of, and has a diploma from, the faculty of a reputable dental college, school or dental department of a reputable university; may come before the board at any of its regular meetings for examination in the several branches of dentistry, and if found proficient, the board will issue to the said candidate a license to practice.

#### EXAMINATIONS AND LICENSES.

Rule XXVII. Each candidate for examination must present a diploma from a school recognized as reputable by this board and if found proficient a license shall be issued on payment of a fee of \$20.00. No license shall be issued to any candidate except after successful examination by the board at a regular or special meeting.

Rule XXVIII. (Miscellaneous Rules.) There shall be two or more regular meetings of the board each year, time and place to be determined by president and secretary. Annual meeting may be held during the session of the annual state dental society. Due notice of all meetings for examination of candidates for license shall be published in leading dental journals at least one month in advance of time. And a notice mailed by secretary to each person who may apply for license.

Rule XXIX. Examinations shall be practical, oral or in writing or partly oral or written, as may be determined, and shall be in the English language.

Rule XXX. Theoretical examination in the following subjects must make a general average of 80 per cent: Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Therapeutics, Bacteriology, Hygiene, Histology, Oral Surgery, Metallurgy, Prosthetic Dentistry, Operative Dentistry, Orthodontia and Jurisprudence.

Rule XXXI. Clinical demonstration will be required of each applicant, the nature to be determined by the board. Candidates must furnish all needed materials and operating instruments, engine included. Cavities must be prepared in presence of the board.

Rule XXXII. At the opening of the examination the applicant will be furnished with envelope containing numbered card. The applicant will write the name and address upon the card, seal the envelope and use this number on all examination papers. The sealed envelopes will at conclusion of the written examination be handed to the secretary and must not be opened until all papers are graded.

Rule XXXIII. Any candidate detected trying to give or obtain aid from a fellow candidate shall be dismissed from examination and his or her paper for the entire examination rejected.

Rule XXXIV. Applicants are expected to be promptly on time at the place of examination. One subject at a time will be taken, and must be completed by all the class before taking another subject. Read questions very carefully. Do not give information not asked for.

Rule XXXV. An applicant failing to pass the required per cent may appear before the board at the next regular examination. A failure to pass second examination will debar candidate from further examination by this board unless full fee is paid and complete examination taken.

Rule XXXVI. The law does not permit board to issue temporary license, hence failure of any applicant to secure proper grade debars from practice. This rule will be strictly enforced.

Rule XXXVII. The board shall begin the inspection of papers submitted immediately after the close of the session and shall complete the same as promptly as possible to insure careful inspection.

Rule XXXVIII. Write answers in the order of the questions. Do not copy question, but write the number of each question in Roman numerals in the center of page before the answer.

Rule XXXIX. Papers containing the questions must be returned intact with the answers.

Rule XL. An applicant for exchange certificate must be a member of the State Society of Iowa as this requirement is demanded by other states having reciprocity laws.

Rule XLI. All licenses must be recorded in the clerk's office in the county in which the holder is practicing. A license is of no legal value until it is recorded.

The next meeting of the board of dental examiners for examination will be held at Iowa City, June . . . . ., December . . . . .

## REGISTERED DENTISTS OF IOWA.

\* Indicates deceased; † indicates gone; ‡ indicates retired.

Abbott, J. T. ....\*Manchester  
 Ableiter, E. A. ....New Hampton  
 Ackert, C. B. ....\*Galva  
 Ackley, E. J. ....Keokuk  
 Adair, W. S. ....Kellogg  
 Adams, M. J. ....Davenport  
 Adams, C. F. ....West Bay City, Mich.  
 Adamson, S. T. ....Malvern  
 Addington, Earl .....Marengo  
 Ahlenfeld, Theodore .....Chicago  
 Akers, L. P. ....Des Moines  
 Albright, L. C. ....Ocheyedan  
 Allender, D. R. ....Bloomfield  
 Alderman, L. R. ....\*Traer  
 Allen, L. D. ....Jefferson  
 Allender J. C. ....Bloomfield  
 Allen, H. O. ....Idaho Springs, Colo.  
 Allen, Henrietta F. ....Berthand, Colo.  
 Allen, E. H. ....Cresco  
 Allen, W. S. ....Jewell Junction  
 Allwine, H. W. ....Des Moines  
 Alleander, C. A. ....Union  
 Allender, L. C. ....Maryville, Mo.  
 Allison, R. J. ....Mason City  
 Alderson, T. E. ....Chicago  
 Ames, A. B. ....Muscatine  
 Ames, W. A. ....Manchester  
 Amsdell, I. J. ....Fairbank  
 Anderson, R. W. ....Clarinda  
 Anderson, F. E. ....Sioux Rapids  
 Andrus, E. D. ....Seattle, Wash.  
 Anger, G. W. ....Brooklyn  
 Anderson, M. F. ....Dayton  
 Anger, H. W. ....Victor  
 Andrews, G. J. ....New London  
 Anderson, A. G. ....Decorah

Anderson, J. E. ....Paton  
 Anderson, J. M. ....Lake Mills  
 Anderson, C. E. ....Madrid  
 Anderson, W. L. ....Charlton  
 Anger, A. E. ....Brooklyn  
 Applebee, J. O. ....Cuba, Ill.  
 Arthur, S. H. ....Scranton  
 Arnold, R. J. ....Leon  
 Arnold, F. J. ....Wayland  
 Armstrong, L. H. ....Ottumwa  
 Armstrong, J. N. ....Ottumwa  
 Armstrong, F. T. ....Coon Rapids  
 Arthur, S. W. ....Nevada  
 Archer, G. S. ....Sanborn  
 Artman, C. P. ....Waterloo  
 Atkinson, A. ....Davenport  
 Averill, W. S. ....Afton  
 Avery, G. E. ....Cherokee  
 Axtell, T. W. ....Silcoam Springs, Ark.  
 Ayers, M. B. ....Dubuque  
 Aylworth, B. H. ....Iowa City  
 Bartlett, D. E. ....Massachusetts  
 Backus, R. D. ....Independence  
 Barton, S. G. ....Waverly  
 Barker, W. H. ....Dakota  
 Barker, A. D. ....Grinnell  
 Barker, S. G. ....Jefferson  
 Babcock, G. M. ....Illinois  
 Babcock, J. E. ....Muscatine  
 Baird, H. M. ....St. Louis, Mo.  
 Bancroft, S. C. ....Lansing  
 Barnhart, H. C. ....Corning  
 Bandy, R. S. ....Tipton  
 Baker, O. H. ....Jamestown, N. Y.  
 Baker, S. H. ....Des Moines  
 Baker, C. R. ....Davenport  
 Baker, W. G. ....Des Moines  
 Baker, J. D. ....Lohrville  
 Baker, R. K. ....Colfax  
 Ball, Frank .....State Center  
 Ball, E. H. ....Tama  
 Ball, J. W. ....Centerville  
 Ball, J. O. ....Mount Pleasant  
 Baldwin, R. W. ....Viroqua, Wis.  
 Baldwin, H. L. ....Potomac, Ill.  
 Ballard, F. A. ....Cherokee  
 Bachman, O. B. ....Des Moines  
 Batcher, H. W. ....Toledo  
 Baldwin, F. E. ....Hartley

Baughman, G. P.	What Cheer
Barnard, L. O.	Perry
Baumer, J. B.	Newton
Bain, R. C.	Lorimor
Barth, W. H.	Great Falls, Mont.
Bauldauf, L. W.	Oskaloosa
Bardwell, G. R.	Belle Plaine
Barnaby, W. J.	Cedar Rapids
Bates, N. J.	Bedford
Bailey, E.	Charles City
Baird, W. H.	Burlington
Beyer, C. P.	Waverly
Beemer, G. N.	Mason City
Belding, G. H.	Milwaukee, Wis.
Besore, C. P.	Ida Grove
Besore, C. F.	Ida Grove
Bentley, S. F.	Hopkinton
Beardsley, C. B.	Chicago
Beers, T. L.	Mount Pleasant
Beers, C. J.	Sacramento, Cal.
Beers, A. O.	Seattle, Wash.
Berg, N. C. A.	Webster City
Bender, E. P.	Chicago
Bernard, W. G.	Riverside
Berry, R. G.	Bedford
Berghart, H. D.	Whitney's Point, N. Y.
Bettice, Dan'l	Spencer
Begun, A. R.	Des Moines
Besore, J. H.	Ida Grove
Bedford, L. N.	California
Bedford E.	California
Bell, J. H.	Missouri
Bennett, J. B.	Keokuk
Bergstresser, E.	Cedar Rapids
Beemis, O. H.	Bancroft
Beach, A. W.	Sheldon
Belding, H. H.	Waucoma
Bevier, G. I.	Sioux City
Beason, S. A.	Nodaway, Wis.
Berkley, N. C.	Des Moines
Beams, F. N.	Laurens
Beason, Mary L.	Newell
Beason, S. A.	Newell
Bennett, F. H.	Fairbanks
Benedict, J. H.	Danbury, Conn.
Bergstresser, C.	Eureka Springs, Ark.
Beecher, S. E.	Chicago
Benson, G. C.	Nashua
Beck, A. A.	Redfield

Beeman, C. E.	Cedar Rapids
Beckman, F. S.	Grundy Center
Becker, A. F.	Des Moines
Beach, C. L.	Hull
Bent, C. A.	Mount Ayr
Bissell, E. H.	Independence
Bissell, E. M.	Independence
Bishop, J. H.	Exira
Bishop, J. W.	St. Charles
Billings, C. A.	North Dakota
Billings, J. W.	Grinnell
Bitts, E.	Oelwein
Birchard, J. A.	Muscatine
Birchard, T. L.	Kollogg
Bingham, F. N.	Des Moines
Bing, J. J.	Greene
Bixby, R. L.	Union
Bidwell, E.	Sioux Rapids
Bigger, L. F.	Preston
Blachley, H. W.	Centerville
Blachley, C. W.	Centerville
Blakemore, N. G.	Davenport
Blakeslee, A. W.	Myatic
Bloom, F. M.	Portland, Ore.
Blake, J. W.	Austria
Blake, F. G.	Colfax
Black, G. C.	Delta
Black, J. J.	Kellerton
Black, J. C.	Keota
Black, A. T.	Davis City
Blaney, R. E.	Boone
Blanchard, F. C.	Waterloo
Blunt, C. L.	Sioux City
Bliss, J. A.	Ruthven
Blooma, R. E.	Kelthsburg, Ill.
Blickenstaff, W.	Monticello, Ind.
Booth, Oscar	Kansas City, Mo.
Booth, J. M.	Marion
Booth, C. N.	Cedar Rapids
Booth, F. W.	Chicago, Ill.
Booth, J. J.	Marion
Booth, R. G.	Madrid
Bowers, G. B.	Avoca
Borst, L. G.	Brookings, S. D.
Bock, E. C.	Fairfield
Boons, W. C.	Ottumwa
Boysen, H. A.	Waterloo
Bowles, A. H.	Ottumwa
Borchers, F. J. T.	Waterloo

Bompke, M. P. .... Muscatine  
 Bowles, H. J. .... Atoka, Ind. Ter.  
 Braun, C. .... Davenport  
 Brant, C. T. .... Chariton  
 Brandt, W. F. .... Walnut  
 Brady, F. M. .... \*Osceola  
 Brady, W. J. .... Kansas City, Mo.  
 Brady, Augusta H. .... Kansas City, Mo.  
 Brady, T. B. .... Van Horn  
 Bradley, C. C. .... Roscoe, Ill.  
 Bradley, W. O. .... Spokane, Wash.  
 Braley, E. .... Britt  
 Brandt, G. C. .... Denison  
 Brandt, C. R. M. .... Neola  
 Bradshaw, P. R. .... Jefferson  
 Bradshaw, P. R. .... Ogden  
 Bradshaw, W. C. .... Ogden  
 Bradshaw, D. F. .... Lehigh  
 Bradfield, N. S. .... Keokuk  
 Branson, L. L. .... Iowa City  
 Bradner, F. C. .... Des Moines  
 Brewster, T. K. .... Oskaloosa  
 Brewer, G. C. .... Belle Plaine  
 Breene, F. T. .... Iowa City  
 Breen, M. H. .... Porterville, Cal.  
 Brett, D. C. .... Adel  
 Brett, J. W. .... Mediapolis  
 Brenner, G. P. .... Milwaukee, Wis.  
 Brower, E. D. .... Le Mars  
 Brown, R. L. .... Davenport  
 Brown, C. W. .... \*Decorah  
 Brown, J. P. .... Clarinda  
 Brown, J. E. .... Texas  
 Brown, G. C. .... Council Bluffs  
 Brown, A. L. .... Perry  
 Brown, D. J. .... Ottumwa  
 Brown, W. H. .... Yankton, S. D.  
 Brown, H. A. .... Davenport  
 Brown, L. A. .... Manley Junction  
 Brown, F. J. .... Sheldon  
 Brown, S. C. .... Las Vegas, New Mexico  
 Brown, W. A. .... Knoxville  
 Brown, C. H. .... Traer  
 Brown, Esther M. .... Staceyville  
 Brown, C. A. .... Ida Grove  
 Brown, G. V. I. .... Iowa City  
 Brownlie, I. C. .... \*Ames  
 Brownlee, E. C. .... Keokuk  
 Browning, E. W. .... Morning Sun

Brooks, E. L. .... \*Vinton  
 Brooks, G. .... Greenfield  
 Brock, G. G. .... Sheldon  
 Brock, B. C. .... Conrad  
 Brock, H. B. .... Lone Tree  
 Brock, A. J. .... Clarence  
 Bronson, E. T. .... Gowrie  
 Bronson, A. E. .... Seymour  
 Bronson, J. L. .... Reinbeck  
 Brookfield, B. M. .... Idaho Falls, Idaho  
 Brotherton, S. S. .... Cedar Rapids  
 Brierly, M. R. .... Independence  
 Bruner, C. W. .... Waterloo  
 Bruner, Grant .... Fort Dodge  
 Bruening, E. H. .... Omaha, Neb.  
 Bruce, G. R. .... West Branch  
 Brunson, I. C. .... Nora Springs  
 Brunson, A. F. .... Nora Springs  
 Bryant, H. F. .... Boone  
 Burrows, Cyrus .... Washington  
 Burris, G. H. .... Correctionville  
 Burris, C. M. .... Randolph, Neb.  
 Burgess, W. B. .... Ness City, Kan.  
 Burns, J. J. .... Volga  
 Burchell, F. P. .... Marion  
 Burkhart, W. E. .... Idaho  
 Bull, T. J. .... Pella  
 Bull, M. M. .... Jefferson  
 Bullard, W. E. .... Streator, Ill.  
 Budd, J. E. .... Duluth, Minn.  
 Burler, D. I. .... Millersburg  
 Buckley, C. R. .... Holstein  
 Byrkitt, G. M. .... Red Oak  
 Byers, R. E. .... Birmingham  
 Boysen, F. A. .... Webster City  
 Bowers, C. K. .... Mobile  
 Calvert, W. B. .... Milan, Mo.  
 Cain, W. P. .... Colfax  
 Carter, F. A. .... Bay Horse, Idaho  
 Carter, E. L. .... \*Sioux City  
 Carpenter, G. A. .... Cantril  
 Carpenter, L. D. .... Indianola  
 Carpenter, M. M. .... Keokuk  
 Capron, A. J. .... Galesburg, Ill.  
 Caldwell, J. W. .... Marion  
 Carson, F. R. .... Kewanee, Ill.  
 Carson, H. A. .... \*Estherville  
 Casey, C. L. .... Cedar Rapids  
 Casebeer, Bessie S. .... Tipton

Callins, C. D.	Waterloo
Carr, C. W.	Buxton
Caradine, W. H.	Albany, Wis.
Carroll, O. V.	Bussey
Carroll, W. D.	Davenport
Calhoun, J. F.	Eldon
Case, R. A.	Davenport
Carey, F. P.	Clearfield
Carney, E. B.	Washington
Carl, C. E.	Morning Sun
Carter, E. O.	Iowa Falls
Carratte, Edith	Spokane, Wash.
Carratte, R. H.	Spokane, Wash.
Carrick, C. C.	Mason City
Cameron, W. W.	Keokuk
Cameron, W. J.	Des Moines
Campbell, E. J.	Chicago
Cannon, W. L.	West Union
Castello, Dan'l	Grand Rapids, Mich.
Cabeen, J. B.	Galesburg, Ill.
Caywood, H. E.	Lake Park
Channell, W. P.	*What Cheer
Chamberlin, F. C.	Clarinda
Chamberlain, Louis	Parkersburg
Chambers, W. M.	Des Moines
Chandler, V. K.	Mount Pleasant
Chapman, F. P.	Iowa City
Chapman, W. H.	Burlington
Chandler, R. E.	Shenandoah
Chase, H. H.	La Crosse, Wis.
Charters, W. J.	Des Moines
Cheney, A. M.	Washington, Minn.
Check, F. J.	Cedar Rapids
Choate, W. N.	Marshalltown
Christiansen, C. E.	Harlan
Chesebro, M. B.	Shell Rock
Childs, A. E.	Cainesville, Mo.
Christie, B. L.	Wapello
Chinburg, S. I.	Dayton
Clarke, R. H.	Tabor
Clarke, O. G.	North English
Clarke, C. A.	Independence
Clarke, L. E.	Dubuque
Clarke, F. B.	Dubuque
Clarke, R.	*Dubuque
Clarke, J. E.	Indianola
Clarke, W. P.	Iowa City
Clark, A. E.	New Hampton
Clark, W. R.	Clear Lake

Clark, F. C.	New Sharon
Clark, W. G.	Chicago, Ill.
Clark, A. B.	Ida Grove
Clark, G. W.	Fort Dodge
Clark, A. D.	Charles City
Clark, G. A.	Eau Claire, Wis.
Clark, F. C.	Mount Ayr
Clark, R. H.	Tabor
Cleland, J.	Davenport
Clemmens, Henry	Amama
Clemmer, J. J.	Cresco
Clinton, J. I.	Estherville
Conner, F. N.	Omaha, Neb'r.
Conner, R. S.	Des Moines
Cochran, R. L.	Burlington
Cochrane, L. W.	Monroe
Cochrane, J. A.	Cincinnati
Coe, D. M.	Winterset
Cole, Wm.	Postville
Cole, G. B.	West Bend
Cole, A. H.	Thor
Condon, J. M.	Perry
Condon, J. J.	Effingham, Ill.
Coulson, Jesse	Florida
Coughlin, W. J.	Ira
Countryman, C. C.	Keosauqua
Courtney, W. G.	Winnebago City, Minn.
Courtright, E. E.	Fort Madison
Conzett, J. V.	Dubuque
Cope, C. W.	Onawa
Collins, J. P.	Perry
Collins, G. W.	Vermillion, S. D.
Collins, F. B.	Belle Plain
Cobb, C. M.	Eagle Grove
Coleman, W. F.	Decorah
Colton, E. E.	Colorado
Condon, A. P.	Perry
Colvig, J. W.	Lake City
Cornell, D. D.	Knoxville
Cogley, G. O.	Shenandoah
Conn, F. K.	Hartley
Cook, H. M.	Oskaloosa
Cook, H. D.	Hull
Cook, A. I.	Correctionville
Cooke, T. F.	Burlington
Colby, J. E.	Lake Mills
Colby, F. J.	Lake Mills
Colby, N. E.	Thornton
Corbus, R. C.	*Hull



Colder, J. H.	Cedar Rapids
Cornwell, E. H.	Milwaukee, Wis.
Cornish, M. S.	Alton
Cooper, R. S.	Winterset
Cox, W. A.	Moline, Ill.
Collison, D. A.	Marshalltown
Cooley, C. C.	Arlington
Conant, M. A.	Churdan
Coffin, T. E.	Oskaloosa
Cory, H. H.	Des Moines
Connole, C. V.	De Witt
Cory, F. M.	Des Moines
Copps, H. R.	Des Moines
Cowan, W. A.	State Center
Conover, J. F.	Calmar
Conover, F. W.	Decorah
Covalt, Scott	Council Bluffs
Conger, L. J.	Akron
Connell, G. D.	Davenport
Conley, W. T.	Tyndale, S. D.
Coon, L. B.	New Virginia
Crawford, W. M.	Washington
Crawford, C. W.	Spencer
Crawford, E. M.	*Vinton
Crawford, R. W.	Baxter
Crawford, Guy	Dumont
Crawford, P. F.	Kirkville, Mo.
Crane, L. E.	Des Moines
Crane, L. F.	Correctionville
Craven, J. G.	Kellogg
Crandall, W. G.	Spencer
Creswell, W. B.	Potosi, Wis.
Cress, G. T.	Sac City
Cress, Geo.	Wheatland
Cretors, C. R.	Creston
Creath, W. E.	Ottumwa
Creighton, D. M.	Mediapolis
Cross, A. M.	Hawarden
Crooks, W. B.	Washington
Cröse, R. B.	Shenandoah
Crouse, R. M.	Dike
Crouch, C. C.	Sears, Ill.
Crichfield, F. W.	Kimball, S. D.
Crumm, A. E.	Boone
Cullum, M. B.	Minneapolis, Minn.
Cullum, R. H.	Minneapolis, Minn.
Cutler, A. B.	Osage
Cutler, D. E.	Osage
Cutler, Earle	Osage

Culmsee, C. F.	Humeston
Currer, G. R.	Sioux City
Currie, A. L.	Monona
Curran, J. J.	Henderson
Cunningham, G. W.	Le Mars
Daly, D. V.	Dexter
Daly, T. H.	Farley
Daly, F. T.	Cambridge, Neb'r.
Day, C. N.	Lucas
Davidson, A. C.	Chariton
Davidson, W. E.	Holdridge, Neb'r.
Davis, F.	Moulton
Davis, F. H.	Chicago, Ill.
Davis, J. C.	Oelwein
Davis, F. H.	Broadhead, Wis.
Davis, J. D. C.	Reinbeck
Davis, J. A.	Davenport
Davis, Loyd	Navoo, Ill.
Davis, W. C.	Oskaloosa
Davis, H. S.	Manchester
Daugherty, T. E.	Guthrie Center
Dalzell, H. M.	Muscatine
Dalzell, Mrs. E. A.	Muscatine
Daugherty, M. J.	De Witt
Dawson, E. S.	*Bruch Creek
Darling, L. M.	Des Moines
Darling, J. H.	New London
Darnell, G. W.	Sumner
Dana, A. W.	Burlington
Darling, A. D.	Tyndale, S. D.
Dannott, E. G.	Lowden
Danes, L. R.	Redfield
Damon, R. E.	Lanning
De Bey, C.	Orange City
De Armand, L. G.	Davenport
Dey Ermand, W. J.	Lennox
De Ford, Mrs. J. M. R.	Des Moines
De Ford, W. H.	Des Moines
De Lano, C. A.	Lone Tree
De La, R. W.	Jewell
De Lesplasse, A. F.	Orange City
De Motts, Henry	Sioux Center
De Walt, J. E.	Sioux City
De Witt, J. R.	Tekamah, Neb'r.
De Witt, H. S.	Des Moines
Dean, F. W.	*Pella
Deaves, H. J.	*Neola
Dearborn, Helen T.	Red Oak

Dennis, A. B.	Cedar Rapids
Denise, O. H.	Burlington
Denzler, John	Marengo
Denault, E. V.	Ladd, Ill.
Derivan, H. B.	Forest City
Dewey, D. J.	Washington
Dempsey, P. F.	Waukon
Derr, J. W.	*Grinnell
Devereaux, T. E.	Fort Dodge
Devereaux, C. H.	Humboldt
Devereaux, C. C.	Fort Dodge
Devereaux, H. C.	Algona
Devaney, W. L.	Albert Lea, Minn.
Deetken, J. C.	Council Bluffs
Decker, H. M.	*Davenport
Deebe, W. E.	Waterloo
Dewell, Wells	Woodbine
Dexter, Clement	Rockwell
Dessaint, L. R.	Davenport
Dewey, J. B.	West Union
Dellahoyde, Hugh	Murray
Detwiler, Coroline	Audubon
Dickinson, W. P.	Minneapolis, Minn.
Dickinson, H. H.	*Council Bluffs
Dickson, H. O.	Des Moines
Dixon, F. L.	Rock Valley
Diffenbacher, D. S.	Colorado
Diffenbacher, B. L.	York, Neb.
Dille, A. A.	*Kellogg
Dingwell, A.	Clinton
Diehl, C. E.	Eldora
Diamond, P. T.	Chicago
Dillingham, E. H.	West Liberty
Dorman, J. M.	Fayette
Dorman, C. W.	Strawberry Point
Dorman, Harry	Harlan
Dorman, L. C.	Clarksville
Dorman, J. M.	Peoria, Ill.
Dorman, O. S.	Manchester
Dorman, J. E.	Fayette
Dorman, C. W.	Fayette
Downs, F. F.	*Davenport
Downing, C. H.	Delta
Downey, J. W.	*State Center
Dowling, J. B.	Waukon
Dow, L. C.	Marion
Dowdy, S. G.	Colo
Dorward, W. N.	Omaha, Neb.
Doran, F. W.	Wilton Junction

Doering, F. E.	Davenport
Doughty, A. A.	Oklahoma
Dodds, Logan	Davenport
Doollittle, M. J.	Lanark, Ill.
Donaldson, W. W.	*Elkader
Donnan, W. A.	Keystone
Donahue, E. M.	*Keokuk
Dorr, P. P.	Fort Dodge
Dolan, J. P.	Elkader
Dodge, C. A.	Chicago, Ill.
Dobson, G. H.	California
Doran, O. D.	Davenport
Doran, J. W.	Bennett
Drummond, C. E.	Osage
Driver, W. W.	Shenandoah
Drake, D. D.	Audubon
Drees, L. J.	Carroll
Dunlavey, W. L.	Gravity
Dunlap, Frank	Clarion
Dunham, O. A.	*Manchester
Duncan, H. E.	West Superior
Duncan, W.	Winfield
Duncan, A. L.	Sanborn
Dunkle, C. S.	Gilman
Dudley, D. R.	Mount Ayr
Dueser, F. H.	Davenport
Dunning, W. S.	Ottumwa
Du Bois, L. L.	Clinton
Dulitz, E. A.	Garner
Dwight, J. H.	Des Moines
Dwight, W. H.	Le Mars
Dwight, C. F.	Marcus
Dwyer, J. W.	Minneapolis, Minn.
Duncan, H. D.	Dallas, S. D.
Duffy, M. H.	Bussey
Eaton, A. V.	Emingham, Ill.
Eaton, A. D.	Strawberry Point
Eaton, John	Sabula
Eaton, H. M.	Strawberry Point
Eaton, C. R.	Oxford Junction
Easterly, C. A.	Manning
Ebl, Edward	*Cedar Rapids
Eberhart, A. E.	Mason City
Eberhart, F. V.	Des Moines
Echternacht, H. F.	Marshalltown
Edwards, S. L.	*Des Moines
Edwards, H. N.	Des Moines
Edgars, E. B.	Seattle, Wash.
Edginton, G. H.	Waterloo

Edwards, A. U.	Cambridge
Edwards, F. M.	Mount Pleasant
Egbert, Morton	Idaho Falls, Idaho
Ehlers, F. F.	Hartley
Elchar, Cora L.	Morning Sun
Elcheberg, G. C.	Fairbank
Elsenbrand, G. F.	Des Moines
Ellsworth, P. J.	Oskaloosa
Ellis, G.	Maquoketa
Ellis, J. B.	Maquoketa
Ellis, G. H.	Maxwell
Ellis, I. N.	Rhodes
Ellis, Herman	Lennox
Ellis, W. H.	Oklahoma
Ellis, W. H.	Lohrville
Ellis, G. C.	Bellevue
Eller, C. L.	Hedrick
Eller, L. R.	Ollie
Elmquist, H. A.	East Des Moines
Emory, F. W.	West Union
Ensign, E.	Algona
Enrikkin, J. B.	Des Moines
Englemann, A. U.	Kelsey
Engle, H. S.	Lineville
Erkenbreck, W. M.	*Clarksville
Erb, B. F.	Anamosa
Erret, G. E.	Harlan
Erb, B. H.	Grundy Center
Eshleman, F. B.	Harlan
Eshleman, C. D.	Charles City
Eshleman, G. W.	Cherokee
Eustice, W. C.	Clinton
Eustice, E. L.	Newton
Evans, C. M.	Des Moines
Evans, A. J.	Pleasantville
Evans, S. J.	Davenport
Evans, C. H.	Des Moines
Echbury, A. N.	St. Ansgar
Fairchild, A. F.	Manchester
Fairall, J. A.	Des Moines
Faber, A. J.	Elkader
Fallis, R. W.	Dubuque
Farley, G. E.	Sioux City
Farlein, J. A.	Madrid
Farrand, C. H.	La Crosse, Wis.
Farnsworth, F. W.	Sanborn
Fawks, C. J.	Mineral Point, Wis.
Ferguson, J. T.	Clarinda
Ferris, F. E.	California

Ferris, A. N.	Waterloo
Ferguson, F. L.	Estherville
Ferreby, T. G.	Humboldt
Fellows, R. L.	West Union
Fear, M. F.	Green City, Mo.
Ferstenberg, W. F.	Clinton
Fisher, G. E.	Red Oak
Fisher, H. P.	Lyons
Fisher, C. K.	Chicago
Fish, W. E.	Anita
Finn, Wm.	Cedar Rapids
Fields, L. S.	Sanborn
Fitzgerald, E. G.	Cedar Rapids
Fletcher, H. A.	Kansas
Fleener, J. A.	Oskaloosa
Fouling, J. W.	Albia
Fourt, Frank	Fairfield
Foot, L. L.	Richland
Forbes, L. S.	Nashua
Fordyce, B. W.	Clarinda
Fordyce, Chester	Guthrie Center
Foster, J. J.	Washington
Foster, H. A.	Britt
Foster, C. G.	North English
Fogarty, J. A.	Glenwood
Fowler, J. H.	Kearney, Neb.
Ford, A. M.	Bloomfield
Follansbee, H. E.	River Falls, Wis.
Forney, J. E.	Keokuk
Forney, J. W.	Arlispe
Foltz, H. A.	Perry
Frank, A. J.	Moravia
Frazier, M. C.	Nevada
Francis, T. P.	Manson
Frey, J. A.	Sioux City
Freeman, A. J.	Rochelle, Ill.
Freemire, F. N.	Chester
Freyman, Frank	Dyersville
Frazer, B. O.	Gladbrook
Fraser, M. O.	Lincoln, Neb.
Frush, B. C.	Farley
Frahm, F. W.	Pella
French, R. E.	St. Charles
Fuller, C. S.	Lyons
Fuller, G. W.	Des Moines
Fullerton, L. K.	Denver, Colo.
Fullerton, K. M.	Cedar Falls
Fuerman, W. O.	Pocahontas
Fink, R. A.	Fargo, N. D.

Fuermann, F. W. .... Ft. Dodge  
 Funston, G. E. .... Waterloo  
 Garretson, C. F. .... Knoxville  
 Garretson, W. R. .... Colorado  
 Gaston, S. M. .... Keokuk  
 Garber, S. A. .... Tipton  
 Garber, T. W. .... Woodbine  
 Garfield, L. K. .... Algona  
 Gaylard, C. M. .... Mason City  
 Gardiner, T. .... Clear Lake  
 Gardner, H. H. .... Williamsburg  
 Gardiner, J. E. .... West Point  
 Gardner, F. L. .... Muscatine  
 Gardner, C. E. .... Clear Lake, S. D.  
 Gallagher, F. J. .... Ashton  
 Gallagher, O. H. .... Grinnell  
 Gant, C. H. .... Muscatine  
 Gant, S. M. .... Muscatine  
 Gant, W. A. .... Clinton  
 Gantz, H. H. .... Albia  
 Galloway, C. C. .... Washington, D. C.  
 Galloway, W. P. .... Estherville  
 Gable, J. C. .... Waverly  
 Gary, A. G. .... Walker  
 Gano, O. E. .... Boone  
 Gabriel, W. N. .... Clinton  
 Galbraith, H. .... What Cheer  
 Gaumer, A. W. .... Bloomfield  
 Gaumer, R. R. .... Prairie City, Ill.  
 Gates, A. G. .... Livermore  
 Gates, Hanna D. .... Glidden  
 Genung, G. E. .... Osage  
 Gist, N. H. .... Lewis  
 Given, P. F. .... Cedar Rapids  
 Gill, B. H. .... Prairie City  
 Gifford, H. T. .... Greenfield  
 Gibbs, H. E. .... Kensett  
 Girls, C. L. .... Muscatine  
 Gibbon, E. A. .... Bellevue  
 Giddings, E. T. .... Missouri Valley  
 Glantz, Ida. .... Burlington  
 Glass, H. L. .... Winfield  
 Glasier, E. S. .... Algona  
 Glazier, A. B. .... Osage  
 Glidden, M. D. .... Council Bluffs  
 Glines, A. S. .... Dubuque  
 Gleaves, A. D. .... Cedar Springs  
 Glass, A. W. .... Monmouth, Ill.  
 Gladson, R. E. .... Knoxville

Glew, H. M. .... Preston  
 Gleason, C. A. .... Mount Horeb, Wis.  
 Gore, Mrs. J. B. .... Grinnell  
 Gore, F. A. .... Sidney  
 Gould, J. B. .... DeWitt  
 Gould, C. F. .... Sioux City  
 Gouchenour, W. P. .... Ida Grove  
 Goble, M. D. .... Dubuque  
 Gormley, T. A. .... Mount Vernon  
 Godlove, G. W. .... Riverside  
 Godlove, L. L. .... Wellman  
 Godshall, O. .... Buxton  
 Goodsell, E. H. .... Belmond  
 Goodenough, G. D. .... Gowrie  
 Goodearle, L. M. .... Mason City  
 Goldthorpe, F. J. .... La Motte  
 Goldthwait, G. G. .... Sigourney  
 Goldsmith, W. S. .... Ottumwa  
 Golly, C. E. .... Spencer  
 Gowdy, H. L. .... Belmond  
 Gothard, E. H. .... Alturas, Cal.  
 Graham, G. D. .... Nashua  
 Graham, J. A. .... Ocheyedan  
 Gramm, C. G. .... Chicago, Ill.  
 Gramm, S. C. .... Keokuk  
 Graham, A. B. .... Montezuma  
 Green, E. B. .... Marengo  
 Green, A. W. .... West Bend  
 Green, A. G. .... Preston  
 Green, O. N. .... Newton  
 Greene, E. A. .... Wesley  
 Greene, J. E. .... Winfield  
 Greene, O. E. .... Clinton  
 Greeno, J. F. .... Chariton  
 Greenawalt, R. A. .... La Motte  
 Greenwood, W. H. B. .... Oelwein  
 Gross, J. M. .... Waverly  
 Grout, J. J. .... New York  
 Grout, J. C. .... Rock Rapids  
 Grove, W. A. .... Tipton  
 Grove, S. G. .... Cedar Rapids  
 Grove, J. C. .... Owatonna  
 Grant, C. S. .... Tipton  
 Gray, L. B. .... Stuart  
 Gray, D. H. .... Manchester, Ind.  
 Gray, C. F. .... Manchester, Ind.  
 Grimm, R. C. .... Des Moines  
 Griffith, W. M. .... Atlantic  
 Griffin, F. M. .... Manson

Griffin, L. H.	.....Twin Falls, Idaho
Griffin, T. A.	.....Malcolm, Ill.
Gruenfeld, J.	.....Des Moines
Griffes, T. R.	.....Carson
Gregg, V. M.	.....Osage
Guffy, Julius	.....Garden City
Gurney, L. E.	.....Council Bluffs
Hardman, Jos.	.....*Muscatine
Hardman, J. F.	.....Kansas City, Mo.
Harwood, Geo.	.....Epworth
Harkinson, J. L.	.....Mason City
Harkness, B. B.	.....Blanchard
Harrell, F. M.	.....Illinois
Harris, R. L.	.....Audubon
Harris, C. S.	.....Allison
Harder, J. C.	.....*Keota
Harter, C. W.	.....Keota
Harter, Ida M.	.....North English
Hart, Fred	.....Alma
Harmon, W. R.	.....Cedar Rapids
Harmon, J. B.	.....Creston
Harned, W. M.	.....Grand Junction
Harned, C. W.	.....Iowa City
Harmon, C. H.	.....Des Moines
Hartley, G. A.	.....Springhill, Kan.
Hargett, A. V.	.....Chicago, Ill.
Harsted, Oliver	.....Sioux City
Harvey, G. B.	.....Spring Green, Wis.
Harrod, W. A.	.....Des Moines
Harlan, W. L.	.....Des Moines
Harlan, H. A.	.....Hillsboro
Harlan, T. S.	.....Salt Lake, Utah
Harlan, Catherine H.	.....Salt Lake, Utah
Harrabin, A.	.....Rockford
Harper, A. S.	.....Oelwein
Harvey, H. J.	.....Sibley
Hare, C. H.	.....Oskaloosa
Hargis, N. C.	.....Baxter
Hamilton, C. B.	.....Coventry, Colo.
Hamilton, J. C.	.....Port Arthur, Tex.
Hamilton, G. W.	.....Council Bluffs
Hanks, L. T.	.....Dubuque
Hatch, S. C.	.....Sioux City
Hatch, E. D.	.....Fairchild, Wis.
Hallett, T. A.	.....Des Moines
Hallett, J. A.	.....Des Moines
Hale, L. T.	.....Chicago
Hale, W. B.	.....Shelby
Hall, L. C.	.....Burlington

Hall, O. C.	.....Rockwell City
Hall, R. W.	.....Sanborn
Hall, E. A.	.....Reinbeck
Haller, W. E.	.....Walcott
Hayes, J. B.	.....Davenport
Hayes, C. L.	.....Rockwell City
Hays, A. S.	.....Washington
Hazelton, H. B. Jr.	.....Toledo
Hathaway, J. C.	.....Iowa Falls
Haines, C. E.	.....Center Point
Hazen, C. C.	.....Council Bluffs
Hazen, E. P.	.....Fort Madison
Haas, A. L.	.....Des Moines
Haffa, H. D.	.....Waterloo
Hasek, V. O.	.....Cedar Rapids
Hasek, A. M.	.....Cedar Rapids
Haffa, F. A.	.....Waterloo
Hasek, F. V.	.....Cedar Rapids
Hancock, R. L.	.....Belle Plaine
Hautsch, F. A.	.....Muscatine
Huser, H. P.	.....Center Point
Haley, F. R.	.....Shelby
Hanofin, T. F.	.....Dorchester
Haight, P. F.	.....Oakland
Hamlin, P. C.	.....Perry
Hanson, N. W.	.....Des Moines
Hanson, C. E.	.....Waverly
Hambly, J. T.	.....Gilmore City
Hanser, G. F.	.....La Crosse, Wis.
Hasting, Mary G.	.....Oshkosh, Wis.
Hasefer, H. G.	.....Georgetown, Colo.
Hammer, W. U.	.....Atlantic
Hayes, H.	.....Hamburg
Hastings, W. B.	.....Ayrshire
Harrison, E. R.	.....Clarinda
Haggarty, R. E.	.....Dubuque
Haselbarth, A. T.	.....Pella
Haigh, G. E.	.....Jefferson City, Mo.
Heaton, W. N.	.....Des Moines
Heaton, H. H.	.....Des Moines
Heacox, F. E.	.....Britt
Helt, C. L.	.....Chicago
Heiple, H. H.	.....Thompson
Heltze, E. F.	.....Minneapolis
Heisey, D. J.	.....Dubuque
Henry, C. A.	.....Monticello
Herron, J. G.	.....Creston
Heplerd, J. B.	.....Cedar Rapids
Hepler, A. W.	.....Des Moines

Hessler, F. G.	Red Oak
Hesse, J. L.	Clarksville
Helkert, T. B.	Red Oak
Heffner, F. A.	Monticello
Henderlinder, E. A.	Onawa
Henle, M. F.	Clinton
Hess, C. B.	Atlantic
Helms, H. F.	Lincoln, Neb.
Hedden, F. H.	Pennsylvania
Hecht, R. H.	Bismarck, N. D.
Hemphill, W. J.	Dexter
Hemminger, D. M.	Priarie City
Hemphill, A. E.	Westboro, Mo.
Hemsworth, L. C.	Marathon
Hemmingway, J. D.	Waverly
Herbert, V. E.	Alta
Heykens, H.	Charter Oak
Hill, F. W.	Hamburg
Hill, S. G.	Des Moines
Hill, S. W.	Osage
Hillemeier, F. H.	Carroll
Hildebrand, J. A.	Waterloo
Hildebrand, J. G.	Waterloo
Hildrith, N.	Sigourney
Hinnish, G. W.	Morning Sun
Hinkley, H. D.	Williamsburg
Hinkley, L. H.	Sigourney
Hinkley, B. C.	Keokuk
Hinsdale, H. V.	Newton
Hines, H. D.	Independence
Hickey, J.	Red Oak
Higgins, M. L.	Clearfield
Higby, F. M.	Bode
High, D. B.	Montezuma
Hitchins, H. R.	Florien, La.
Hiett, W. M.	Malvern
Hibbs, T. G.	Fonda
Holmes, S. T.	Maquoketa
Holmes, L. G.	Eldon
Holmes, E. E.	Boone
Holmes, R. A.	Earlham
Holmes, H. L.	Dubuque
Holsen, E. R.	Fairfield
Holsen, Allene M.	Grinnell
Holmquist, D. E.	Casey
Holland, J. C.	Cedar Rapids
Holland, F. E.	Preston
Holland, C. P.	Lennox
	Bloomington, Ill.

Hollingsworth, W. G.	Sheboygan
Holt, E. T.	Webster City
Holt, F. J.	Monona
Holden, C. S.	DeWitt
Holden, E. E.	Sioux City
Hollenbeck, C. D.	Waterloo
Hollenbeck, T. B.	Boone
Holaday, S. F.	Stratford
Hoag, C. E.	Wapello
Hoag, G. W.	Dubuque
Hobbs, J. M.	Port Madison
Hodge, A. S.	Maqueta
Hodge, L. D.	Arkansas City, Kan.
Hodges, S. T.	Earlham
Hockabout, Wm.	Blanchard
Hockabout, S. J.	Coin
Homer, A.	Waterloo
Hodgin, W. E.	Springville
Hoover, C. D.	Abia
Hood G. T.	Rockwell City
Hopkins, A. F.	Clinton
Hopkins, C. L.	Rawlins, Wyo.
Hopkins, R. L.	Sterling, Ill.
Hope, B. N.	Eagle Grove
Horton, Mary G.	Wellman
Horton, F. W.	Eldora
Horton, J. P.	Tingley
Hoover, M. S.	Perry
Hosford, W. S.	Iowa City
Hostetter, W. J.	Emerson
Houghawont, J. W.	Fort Dodge
Houston, R. C.	Emerson
Houston, G. B.	Centerville
Householder, F. L.	Maxwell
Houser, D. G.	Center Point
Hough, M. H.	Waterloo
Houghton, M. J.	Valley Junction
Howes, E. R.	Chicago
Hoyt, F. A.	Chicago
Howe, G. R.	Muscatine
Howard, Florence A.	Keokuk
Hoxie, C. R.	Waterloo
Howe, O. P.	Dysart
Huber, C. R.	Hamburg
Hubbard, Boyd	Adair
Hubbard, J. W.	Columbus Junction
Hubbell C. R.	La Junta, La.
Huff, F. L.	Charlotte
Hughes, W. L.	Minneapolis, Minn.

Hughes, J. P.	Des Moines
Hughes, E. E.	Des Moines
Hull, J. M.	Milton, Wis.
Hull, Frank	Lake Mills
Hullinger, J. J.	San Francisco, Cal.
Hulbert, C. E.	Osceola
Humphrey, W.	Carroll
Humphrey, M. A.	Logan
Humphrey, W. T.	Lincoln, Neb.
Humphrey, W. F.	Logan
Humphrey, C.	Grand Junction
Humeston, F. L.	Marshalltown
Hummel, A. T.	Dyersville
Hunsicker, C. L.	Indianola
Hunt, C. E.	Ames
Hunt, A. O.	Omaha
Hunt, J. P.	Mount Pleasant
Hunt, C. H.	Council Bluffs
Hunt, F. M.	Des Moines
Huntley, R. L. G.	Mason City
Hunter, Alice C.	Des Moines
Hurst, H. E.	Eldon
Hurst, T. H.	Alden
Hurd, H. A.	Des Moines
Hutchinson, L. S.	Elgin
Hutchinson, T. C.	Decorah
Hutchinson, Bessie	Clinton
Hyler, B. B.	Savannah, Ill.
Hynds, Winona	Marshalltown
Hynds, Jacob	Cedar Rapids
Hynds, F. S.	Marshalltown
Hyatt, F. B.	Ottumwa
Hyverly, S. T.	Waterloo
Ingersoll, L. C.	Keokuk
Ingham, S. L.	Hampton
Irving, E. L.	Farmington, Minn.
Irwin, R. M.	Fairfield
Irwin, J. N.	Brighton
Isenberg, H. M.	Pierre, S. D.
Isenhart, A.	Perry
Isabell, W. O.	Forest City
Ivey, A.	Estherville
Jackson, M. L.	Oskaloosa
Jackson, J. D.	Omaha, Neb.
Jackson, J. M.	Prescott
Jackson, E. M.	Scranton
Jackman, E. A.	Nebraska
Jacobs, C. H.	Colesburg
Janett, J. H.	Fountain City, Wis.

James, T. L.	Fairfield
James, F. B.	Wilton
Jankens, W. G.	Fort Dodge
Jarrett, J. V.	Central City, Neb.
Jayne, W. B.	West Liberty
Jeffers, W. J.	Elkader
Jeffers, L. L.	Hampton
Jeffries, C. H.	Council Bluffs
Jenkins, F. L.	Villisca
Jenson, Jas.	Cedar Falls
Jerrel, C. O.	Mount Pleasant
Johnson, J. H.	Waukon
Johnson, S. K.	Sioux City
Johnson, F. A.	Holstein
Johnson O.	Cedar Falls
Johnson, A.	Roland
Johnson, A. B.	Mallard
Johnson, C. V.	Council Bluffs
Johnson, T. W.	Lake City
Jones, N. Q.	Howa Falls
Jones, J. P.	Bentonsport
Jones, A.	Des Moines
Jones, J. B.	Minola, W. Va.
Jones, M. A. H.	Iowa City
Jones, H. C.	Boone
Jones, J. N.	Shelby
Jones, H. L.	St. Charles
Jones, J. A.	Dubuque
Jones, H. B.	Des Moines
Jones, H. M.	Winterset
Jones, J. R.	Fertile
Jorgensen, Ellise	Kenosha, Wis.
Joy, A. P.	Newton
Joy, Anna H.	Newton
Joy, H. J.	Newton
Joynt, R. J.	Le Mars
Justice, P. C.	Blakesburg
Karsten, H. M.	Sumner
Kaufner, J. A.	Burlington
Kay, G. H.	Storm Lake
Kain, W. E.	Algona
Keagle, L. S.	Vinton
Keagle, J. S.	Columbus, O.
Keene, T. B.	Cedar Rapids
Keefe, E. M.	Caney
Keeton, A. F.	Knoxville
Keehl, W. E.	Iowa City
Keeler, C. C.	Des Moines
Keeler, H. D.	Des Moines

Kellogg, A.	Webster City
Kellogg, A. M.	Des Moines
Kellogg, G. H.	Cresco
Kellogg, A. C.	San Francisco, Cal.
Kellogg, Frank	West Branch
Kellogg, W. D.	Decorah
Kellogg, L. F.	Marshalltown
Kellogg, A. E.	Cresco
Kellogg, H. H.	Sioux City
Kellogg, C. D.	Limesprings
Kellogg, A. V.	Dallas Center
Kellogg, R. D.	Sioux City
Kelley, M. J.	Davenport
Kelley, T. S.	Logan
Kelley, T. H.	Oxford
Kelley, J. W.	Mason City
Kelsay, F. M.	Villisca
Kelso, M. H.	Ames
Kemp, F. N.	Council Bluffs
Kennedy, J. R.	Washington
Kennedy, C. M.	Des Moines
Kennedy, E. F.	Fort Dodge
Kennedy, J. M.	Eldon
Kennedy, Jas.	Albany, Ill.
Kennedy, R. B.	Essex
Kenderdine, W. H.	Sutherland
Kern, F. J.	Dubuque
Keptford, J. C.	Milford
Kerr, J. S.	Park River, N. D.
Kerr, E. N.	Newton
Kerrigan, J. A.	Davenport
Kettell, H. C.	Jefferson
Ketchum, H. H.	Muncie, Ill.
Kidder, R. E.	Emmetsburg
Kier, G. P.	Eldora
Killingsworth, D. H.	Mount Ayr
King, J. W.	Fort Dodge
King, G. E.	Villisca
King, O. A.	Blairstown
King, Frank	Rolfe
King, C. A.	Maxwell
Kinsley, J. D.	Lisbon
Kinner, M. R.	La Porte City
Kinnan, H. A.	Marshalltown
Kinney, H. E.	Keokuk
Kirby, A. H.	Rock Rapids
Kirk, P. S.	Shellsburg, Wis.
Kirkpatrick, R.	Edgewood
Kittoe, J. F.	Cedar Rapids

Kiser, E. L.	Quasqueton
Kline, H. J.	Logansport, Ind.
Klaffenbach, A. O.	Muscatine
Knapp, H. G.	Garfield
Knapp, John	Boone
Knapp, W. T.	Charles City
Knepper, G.	California
Knight, N. P.	Farmington
Knott, H. A.	West Liberty
Knott, F. W.	Sioux City
Knowles, A. C.	Jeup
Knoll, T. F.	Dubuque
Knoll, O. A.	Dubuque
Koch, V. E.	Joplin, Mo.
Kruger, L. F.	Garnaville
Kratz, W. F.	Burlington
Krieg, J. A.	Cleveland, O.
Kulp, J. H.	Davenport
Kulp, W. O.	Davenport
Kulp, J. S.	Muscatine
Kulp, J. R.	Davenport
Kulp, D. E.	West Bend
Kulp, C. J.	Muscatine
Kulander, H.	Swea City
Kuehn, F. J.	Primghar
Kuster, S. W.	Remsen
Kinney, C. L.	Essex
Lacey, C. B.	Sloan
Lahman, R. C.	Missouri Valley
Laird, J. O.	Malvern
Laird, C. E.	Des Moines
Lally, F. E. V.	Sioux City
Lambert, N. M.	Springfield, Ill.
Lane, W. H.	Dakota
Lane, A. H.	Chicago
Lanning, G. R.	Sioux City
Lange, L.	Davenport
Lange, F. X.	New Vienna
Lange, H. F.	Muscatine
Landon, F. L.	Silver City
Lappin, M. R.	Riceville
Landee, G. A.	Dunlap
Larmer, C. V.	Albany, Mo.
Lattig, H. S.	Anita
Lathrop, C. M.	Toledo
Latchman, H. E.	Grand Junction
Lawyer, L. G.	Iowa City
Lawrence, W. H.	Armstrong
Leake, K. S.	Burlington



Leach, D. S.	West Union
LeCron, S. L.	Springfield, Ill.
LeCron, Don	Cedar Rapids
Leece, S. E.	Fonda
Lee, F. E.	Des Moines
Lee, A. C.	Ottumwa
Lee, H. W.	Buena Vista, Colo.
Leech, C. S.	Winterset
Leech, C. R.	Winterset
Leigh, J. F.	Evanston, Ill.
Leigh, C. L.	Davenport
Leikvold, H. G.	Sioux Rapids
Lehman, J. C.	Mattoon, Ill.
Lemley, L. G.	Grinnell
Leonard, F. C.	Eagle Grove
Leonard, J. J.	Dubuque
Leonard, J. A.	Deep River
Lessinger, H. A.	Audubon
Lesley, F. C.	Lake Mills
Letts, H. L.	Davenport
Lewis, F. G.	*Jacksonville, Fla.
Lewis, F. A.	Ottumwa
Lewis, C. B.	Ottumwa
Lewis, L. W.	Shenandoah
Lewis, C. P.	Council Bluffs
Lickly, J. J.	Sioux City
Liggitt, W. B.	Manilla
Lillibridge, W. H.	Dysart
Lillibridge, W. O.	Sioux Falls, S. D.
Lindsey, C. B.	West Union
Lindholm, M. J.	Farmington
Lingo, A. M.	Muscatine
Link, J. J.	Dyersville
Little, J. J.	Burlington
Litchfield, J. B.	Dyersville
Littig, H. A.	Davenport
Littlefield, A. H.	Clarion
Lister, C. S.	Clarion
Livingstone, R. F.	Milford
Lockhart, W. T.	Moline, Ill.
Lockwood, W. B.	Boone
Logan, J. B.	Moravia
Logan, R. C.	Des Moines
Long, C. J.	Dubuque
Long, W. M.	West Liberty
Long, A. R.	Des Moines
Long, Martin	Eddyville
Loring, W. W.	Indianola
Lovelady, J. A.	Hamburg

Love, H. L.	Provost City, Utah
Love, D. T.	Manson
Love, J. R.	Nebraska
Lowry, W. D.	Davenport
Lowry, L. S.	Keokuk
Lotts, E. G.	Dows
Lucke, P. P.	Le Mars
Lupton, L. A.	Toledo
Lundell, H. W.	Webster City
Lutz, I. D.	Boone
Lynch, O. E.	Des Moines
Lynn, T. M.	Grundy Center
Lynn, W. R.	Grundy Center
Lynn, A. A.	La Porte
Lynn, E. C.	State Center
Lybe, D. I.	Sidney
Lyon, W. W.	Garwin
Lyon, H. E.	Buffalo Center
Lyons, G. E.	Grand Island, Neb.
Lyon, D. E.	Jefferson
McAbery, E. G.	Chicago
McAllister, H. M.	Pella
McBeath, Wm.	Madrid
McBean, A. O.	Grafton, Wis.
McBoyle, R. E.	Mendota, Ill.
McCall, A. D.	Atlantic
McCall, S. W.	Council Bluffs
McCabe, W. D.	Osage
McCabe, M. B.	*Nora Springs
McCarty, W. W.	Des Moines
McCarty, A. L.	Des Moines
McCandless, A. W.	Davenport
McCandless, A. S.	Marshalltown
McCandless, C. R.	Davenport
McCarthy, C. B.	Story City
McCartney, E. F.	Slou City
McCartney, O. E.	Thurman
McCalman, C. S.	Rockwell
McClurg, J. A.	*Keosauqua
McClanahan, W. P.	Corydon
McClanahan, W. B.	Iowa Falls
McClurg, Curtiss	Milton
McCluskey, F. M.	Glenwood
McClurg, F. M.	Keosauqua
McCreary, A. F.	Carroll
McCrea, H. C.	Boone
McCalman, A. E.	Des Moines
McCallum, A. E.	Woodard
McClelland F.	Cedar Rapids

McConnaughey, S. D.	Brighton
McConnaughey, E. M.	Washington
McConnaughey, C. H.	Eagle Grove
McConnaughey, R. O.	Denison
McCoy, T. R.	Waterloo
McConn, M. L.	Bloomfield
McCord, A. I.	Riverton
McCormack, A. J.	Clemons
McDavitt, W. G.	Davenport
McDonald, W. F.	Ottumwa
McDowell, C. E.	Iowa Falls
McErlain, J. A.	Guttenburg
McElwain, W. D.	Dyersville
McElwain, P. W.	Sioux City
McElderry, C. A.	Fairfield
McEvoy, R. D.	Missouri Valley
McEvoy, J. M.	Delta
McEvoy, M. L.	Massena
McEvoy, A. E.	Dubuque
McEwen, E.	Mason City
McFadden, C. C.	Sherburn, Minn.
McFarland, J. F.	Dubuque
McGregor, H. V.	Eagle Grove
McGregor, P.	Quimby
McGarvey, L. E.	Leland
McGrall, J. C.	Savannah, Ill.
McGuire, J. H.	Des Moines
McGuigan, V. A.	Dubuque
McGowan, J. S.	Vinton
McIntosh, W. S.	Wellman
McIntosh, R. L.	Mount Vernon
McKay, W. M.	Des Moines
McKay, Alex.	Osceola
McKay, J. H.	Forest City
McKay, G. C.	Forest City
McKee, J. W.	Davenport
McKeeby, B. H.	Cedar Rapids
McKibbin, G. P.	Battle Creek
McKinney, Lydia, Y.	Anamosa
McLeod, E. A.	Knoxville
McLeran, C. S.	Audubon
McManus, R. C.	Centerville
McMartin, Kenneth	Knoxville
McMaster, G. A.	Stanton
McNeil, J.	Elma
McNinch, S. W.	Marble Rock
McNinch, J. S.	Rockford
McNutt, R.	Muscatine
McNutt, S. B.	Des Moines

McParland, J. F.	Dubuque
McQuillen, E.	Harlan
McStay, E. E.	Fargo, N. D.
McSwiggin, J. F.	Victor
McVay, J. E.	Creco
McVay, H. R.	Eddyville
Mabee, O. P.	Galesburg, Ill.
Mackey, T. D.	Keokuk
Maguire, J. O.	Dubuque
Magruder, G. R.	Hubbard
Mahood, D. G.	Webster City
Mahood, L. M.	Sioux City
Maxfield, J. J.	Indianola
Maxfield, H. B.	Fairmount, Ill.
Maxon, L. J.	Cedar Rapids
Maxwell, W. A.	Avoca
Manker, J. W.	Red Oak
Manker, G. F.	Bedford
Manker, Lewis	Nebraska
Mansfield, F. J.	Burlington
Mather, J. W.	Lamoni
Mather, W. J.	Lamoni
Mathews, L. N.	Des Moines
Mathews, W. H.	Denver, Colo.
Mathews, L. D.	Denver, Colo.
Matheson, G. A.	Ireton
Mattison, R. C.	Sioux Rapids
Marshall, C. A.	Nebraska
Marshall, J. L.	*Fort Dodge
Marshall, S. C.	Rock Island, Ill.
Maresh, R.	Cedar Rapids
Marietta, S. U.	Des Moines
Marie, J. A.	Washington
Marlow, S. A.	Bloomington, Ill.
Marietta, F. W.	Fort Madison
Martin, J. T.	Muscatine
Martin, F. W.	Des Moines
Marsh, J. W.	Keokuk
Martelle, J. B.	Burlington
Mann A.	Hawarden
Madison, H. L.	Burlington
Magill, C. B.	Jacksonville, Ill.
Mahan, I. S.	Oklahoma City, Okla.
Maloney, J. C.	Fort Madison
Maloney, J. H.	Nodaway
Maloney, J. J.	Rock Rapids
Maytum, B. J.	Paulina
Mason, W. C.	Hopkinton
Maskrey, F. G.	New Mexico

Maercklein, R. E.	.....Milwaukee Wis.
Maurice, A. M.	.....Monticello
Mason, V. V.	.....Eau Claire, Wis.
Marion, J. W.	.....E. Des Moines
Mason, C. J.	.....Anthon
Melon, Frank	.....Garfield
Meyers, R. D.	.....Davenport
Meyers, L. G.	.....Aurora, Neb.
Mershon, G. A.	.....Marshalltown
Merrill, A. F.	.....Medford, Okla.
Merrill, F. B.	.....Chicago
Merner, D.	.....Cedar Falls
Meis, W. A.	.....Dubuque
Merrick, R. F.	.....Sioux City
Means, J. J.	.....Greenfield
Merritt, G. L.	.....Dubuque
Mentzer, C. J.	.....Cedar Falls
Mentzer, J. A.	.....Mason City
Meyer, F. A.	.....Postville
Meyer, C. E.	.....Le Claire
Meade, W. J.	.....Oxford
Mead, C. B.	.....Chicago
Meis, H. L.	.....Sioux City
Meade, C. L.	.....Mason City
Messinger, J. A.	.....Dubuque
Miner, A. K.	.....*Cedar Rapids
Miner, A. M.	.....*Davenport
Miner, F. D.	.....Oelwein
Miner, Cora R.	.....Waukon
Miller, W. G.	.....Oskaloosa
Miller, G. W.	.....Des Moines
Miller, W. M.	.....Douds
Miller, R. W.	.....Sioux City
Miller, McK.	.....Winterset
Miller, C. B.	.....Cedar Falls
Miller, F. E.	.....Cedar Rapids
Miller, B. A.	.....Newton
Miller, W. C.	.....Kalona
Miller, F. W.	.....North Platte, Neb.
Miller, T. J.	.....Hudson, S. D.
Miller, H. D.	.....Bloomfield, Neb.
Miller, J. J.	.....Manning
Miller, G. R.	.....Atlantic
Miller, R. G.	.....Des Moines
Miller, C. W.	.....Chicago
Miller, G. W.	.....Marshalltown
Miller, G. C.	.....East Elkport
Miller, R. E.	.....Sioux City
Miller, C. E.	.....Mount Ayr

Miller, A. K.	.....Mount Ayr
Mills, D. W.	.....Keokuk
Mills, B. C.	.....Princeton
Mitchell, G. O.	.....Massachusetts
Mitchell, H. E.	.....Lancaster, Mo.
Mitchell, S. T.	.....Hamburg
Mitchell, W. T.	.....Davenport
Mitchell, A. E.	.....Cambridge
Mitten, J. C.	.....Pella
Minges, Herman	.....Dubuque
Minter, R. M.	.....College Springs
Milburn, A.	.....Sioux City
Morseman, A.	.....Iowa City
Montford, J. B.	.....Fairfield
Montgomery, J.	.....*Ottumwa
Morgan, J. B.	.....Davenport
Morgan, H. S.	.....Russell
Morrison, E. M.	.....Des Moines
Morris, J. K.	.....*Ackley
Morris, F. E.	.....Ponda
Morris, J. H.	.....Keokuk
Morris, R. D.	.....Red Oak
Morris, R. C.	.....Leon
Morris, J. L.	.....Wall Lake
Morrison, J. C.	.....Garner
Molt, T. F.	.....Clinton
Money, G. C.	.....Fort Dodge
Morrow, W. S.	.....Kearney, Neb.
Morrow, B. A.	.....Sioux City
Morrow, Harry	.....Iowa City
Molyneux, W. M.	.....Independence
Moleton, M. D.	.....Hinkley, Ill.
Morehouse, H. S.	.....College Springs, Colo.
Morehead, W. W.	.....Aledo, Ill.
Mortonson, J. C.	.....Clear Lake
Moravec, A. J.	.....Oxford Junction
Morton, R. E.	.....Cresco
Morton, D. W.	.....Des Moines
Mortonson, M. H.	.....Clear Lake
Moravec, E. L.	.....Cedar Rapids
Molsberry, W. I.	.....Sac City
Molesberry, F. R.	.....Sac City
Molseed, L. E.	.....Vall
Moore, C. A.	.....Philadelphia
Moore, R. B.	.....Iowa City
Moss, W. G.	.....Greene
Moss, S.	.....Sheffield
Mohan, J. C.	.....Sioux City
Mudge, A. O.	.....Council Bluffs

Musser, F. C.	.....Texas
Mullett, E. R.	.....Clinton
Mullen, W. L.	.....Dubuque
Mullican, L.	.....Indianola
Munn, E. W.	.....Dubuque
Murray, J. W.	.....Lawler
Murrell, E.	.....Lancaster, Mo.
Mueller, A.	..... <sup>1</sup> Davenport
Mueller, A. J.	.....Waterloo
Mueller, J. H. C.	.....Marshalltown
Munson, V. W.	.....Quincy, Ill.
Munger, F. E., Jr.	.....Bayard
Munger, M. W.	.....West Branch
Muir, W. W.	.....Norway
Murray, J. B.	.....Dubuque
Murray, C. A.	.....Muskogee, Ind. Ter.
Myler, M. W.	.....Selby, S. D.
Nance, Ray	.....Nebraska
Nauman, E. H.	..... <sup>1</sup> Oxford Junction
Nauman, B.	.....Frankfort, Kan.
Naumann, L. A.	.....Burlington
Naibert, W. F.	.....Cedar Rapids
Nagelsaker, O. B.	.....Decorah
Narrley, G. R.	.....Keokuk
Neuman, G. A.	.....Des Moines
Neuman, W. W.	.....Des Moines
Newcomb, E. E.	..... <sup>1</sup> Cascade
Newton, F. S.	..... <sup>1</sup> Marshalltown
Neil, J. A.	..... <sup>1</sup> Postville
Neal, E. B.	.....Bethany
Neece, W. A.	..... <sup>1</sup> Marshalltown
Neeper, H. P.	.....Keokuk
Nenahlo, C. J.	.....Cedar Rapids
Neely, W. L.	.....Des Moines
Nickolas, J. R.	.....Burlington
Nickolson, J.	.....Nebraska
Nickson, E. D.	..... <sup>*</sup> Humboldt
Nickson, H. E.	.....Forest City
Nielson, C. J.	.....Chicago
Nies, G. H.	.....Ossian
Nisbet, M. D.	..... <sup>*</sup> Sioux City
Niswander, C. H.	.....Brooklyn
North, Gustavus	.....Cedar Rapids
Norris, L. L.	.....Pomeroy
Nott, J. H.	.....Marion
Nott, R. G.	.....Slater
Noble, E. P.	.....Belle Plaine
Nourse, H. F.	.....Mapleton
Nye, A. L.	.....Des Moines

Nye, W. S.	.....Leon
Nyce, H. C.	.....Norristown, Pa.
Nell, F. A.	.....Lowden
Oberman, B. E.	.....Des Moines
Ockerman, S.	.....Bridgeport, Okla.
Ockerman, W. H.	.....Cedar Rapids
Ockerman, Clara L.	.....Cedar Rapids
Ogg, J. A.	.....Orange City
Ogg, M. D.	.....Wycokoff, Minn.
Oldaker, J. L.	.....Exira
Oleson, G. H.	.....Plymouth
Oliphant, L.	.....Center Point
Olkon, D. M.	.....Chicago
O'Malley, Martin	.....Des Moines
O'Grady, J. E.	.....Schaller
Orebaugh, W. W.	.....Girard, Kan.
Osborn, R. L.	.....Harlan
Osborn, A. E.	.....La Porte
Osher, B. T.	.....Graettinger
Oursler, W. N.	.....Odebolt
Overfield, M. S.	.....Harlan
Oyler, W. S.	.....Springville
Palmer, W. H.	..... <sup>*</sup> Cherokee
Palmer, S. C.	.....Monticello
Palmer, A. B.	.....Iowa City
Palmer, C. M.	.....Charles City
Palmer, V. G.	.....Riceville
Palmer, C. A.	.....Luverne, Minn.
Palmer, W. T.	.....Keota
Palmer, C. A.	.....Grinnell
Parker, C. H.	.....Florida
Parker, W. W.	.....Red Wing, Minn.
Parker, W. W.	..... <sup>1</sup> Lake Mills
Parker, J. C.	.....Rockwell City
Parnele F. M. M.	.....Davenport
Parmley, M. F.	.....Sioux City
Payne, W. H.	..... <sup>1</sup> New Providence
Paschal, K. B.	.....Bedford
Payne, C. B.	.....Farley
Payne, I. A.	.....Bridgeport, S. D.
Payne, R. E.	.....Clinton
Patterson, W. D.	.....Cedar Rapids
Patterson, S. S.	.....Oskaloosa
Patchen, H.	..... <sup>1</sup> West Point
Pape, H. G.	.....Davenport
Pasedach, H. R.	..... <sup>*</sup> Tipton
Patton, J. H.	.....Des Moines
Paton, C. B.	.....Chadron, Neb.
Page, R. R.	.....Calmar
Parmenter, A. B.	.....Panora

Parsons, D. C.	Lake City
Pangburn, S. A.	Northwood
Perry, M. M.	Chariton
Perry, P. T.	Chariton
Peterson, C. J.	Dubuque
Peterson, A. A.	Muscatine
Peterson, C. P.	Mankato, Minn.
Peterson, A. O.	Thor
Perkins, E. R.	Des Moines
Peck, P. B.	Minnesota
Peck, A. L.	Spencer
Peacock, E. F.	Vinton
Pearson, W. B.	Anamosa
Percival, C. S.	Bonaparte
Percy, R. E.	Dexter
Peek, E. E.	Waterloo
Peek, L. S.	Fontanelle
Pegg, W. A.	Ossian
Pennington, J. S.	Burlington
Pennell, C. A.	Davenport
Perdew, E. J.	Keokuk
Penney, C. L.	Shellsburg
Penn, W. A.	Sidney
Penniwell, F. H.	Leon
Pelkey, W. H.	Blockton
Pelton, H. C.	Iowa City
Penrose, W. C.	Lamoni
Petry, John	Charles City
Phillips, W. J.	Afton
Phillips, E. A.	Maquoketa
Phillips, O. E.	Villisca
Philbrook, B. F.	Dennison
Phelps, J. O.	Sturgis, Mich.
Pherrin, J. B.	Central City
Pinckney, L. D.	Davenport
Pinney, R. G.	Lake City
Piner, H. E.	Stuart
Pile, B.	Missouri
Pile, S. W.	Boone
Pittman, L. L.	Bloomfield
Pierce, C. H.	Des Moines
Pittman, E. W.	Tabor
Pittman, H. A.	Tipton
Powers, J. L.	Reinbeck
Powers, E. G.	Paoma, Colo.
Powers, C. W.	Dubuque
Powell, E. F.	Slou City
Powell, E. H.	Connecticut
Pool, V. B.	Mason City

Pool, H. F.	Mason City
Poor, Chandler	Dubuque
Potter, F. G.	Maquoketa
Porter, J. T.	Blairtown
Porter, C. E.	Davenport
Porter, H. J.	Glidden
Porterfield, W. R.	Traer
Port, Chas.	Clinton
Pote, R. W.	Webster City
Poland, J. M.	Waterloo
Pollock, D. J.	Marshalltown
Pospisiel, Jos.	Dyersville
Pollard, G. A.	Stanwood
Pohle, E. J.	Guttenburg
Poston, L. L.	Council Bluffs
Pomeroy, L. M.	Avoca
Plank, F. T.	Independence
Price, Ben	Iowa City
Price, B. A.	Henderson
Price, F. O.	Colo
Preston, F. M.	Radcliffe
Printice, A. B.	Storm Lake
Pringle, G. A.	Rockford
Pratt, G. M.	Winterset
Pratt, D. W.	Burt
Prettyman, F. S.	Sloux Falls, S. D.
Punton, A. L.	Mount Pleasant
Purdie, J. C.	Mumford, N. Y.
Qualfe, H. H.	Mason City
Quick, E. C.	Denver, Colo.
Rathbun, R. S.	Clinton
Rathbun, C. N.	New Hampton
Rathbone, R. R.	Dillon, Mont.
Rath, T. H.	Gladbrook
Rath, R. C.	Ackley
Rawson, E. A.	Sheldahl
Rawson, A.	Des Moines
Rawlston, J. T.	Elliott
Raugh, J. M.	Coon Rapids
Randolph, H. F.	Correctionville
Randall, T. J.	Adaville
Rawlston, S. C.	Carson
Rawlston, F. N.	Des Moines
Rawhouser, C. D.	Salem
Reed, D. S.	Des Moines
Reed, W. A.	Marengo
Reed, G. E.	Iowa City
Reed, W. M.	Allerton
Reed, C. H.	Avoca

Read, E. C.	Oakland
Read, Arthur	Hancock
Read, T. L.	La Porte
Rear, E. O.	Des Moines
Reedy, E. H.	Beatrice, Neb.
Reddy, M. J.	Mechanicsville
Reilly, W. H.	*Oskaloosa
Redfield, D. W.	Virginia
Rederick, A. J.	Sioux City
Reynolds, G. H.	Greene
Reno, M. C.	Iowa City
Redman, D. P.	Tripoli
Redman, B. F.	Oskaloosa
Rebman, H. R.	Sabula
Renshaw, C. W.	Rock Valley
Reisinger, H. D.	Reinbeck
Reynard, Mae	Osceola
Reilly, F. F.	Lakefield, Minn.
Revell, A. L.	Minneapolis, Minn.
Rector, C. E.	Spirit Lake
Reichert, C. S.	Tipton
Rhoads, C. A.	Boone
Rice, W. J.	Armstrong
Rice, Mrs. F. J.	Colorado
Rice, S. K.	Northwood
Rice, J. K.	Aurella
Rice, T. L.	Ames
Ritenour, G. H.	Des Moines
Rickettes, B. A.	Clinton
Riley, J. T.	West Union
Rigby, E. T.	Davenport
Rix, John	Fort Madison
Richey, C. N.	Indiana
Richards, J. L.	Nevada
Richards, D. T.	Tama
Richardson, L. E.	Cedar Rapids
Richardson, F. G.	Mason City
Richardson, H. N.	Shenandoah
Ritchey, E. L.	Lone Tree
Ritchey, C. E.	New London
Rickey, D. T.	Ferguson
Rist, A. L.	Algona
Riser, Jacob	Lincoln, Neb.
Riser, H. W.	Minneapolis, Minn.
Rizer, G. E.	Burlington
Rix, T. G.	Dowagiac, Mich.
Rinker, J. L.	Sioux City
Rittler, E. G.	Wayland
Rose, M. H.	Hampton

Ross, F. R.	Chicago
Ross, J. A.	Osceola
Rose, T. A.	Sioux City
Rose, R. E.	Mount Grove, Mo.
Rose, J. E.	Vinton
Roe, F. A.	Burlington
Roe, L. E.	Council Bluffs
Rozelle, E. L.	Des Moines
Roberts, G. A.	Independence
Roberts, I. A.	Warrensburg, Mo.
Roberts, F. H.	Shell Rock
Roberts, C. W.	West Point
Roberts, M. C.	West Point
Robertson, C. W.	Waterloo
Robertson, C. B.	Des Moines
Robertson, M. M.	State Center
Robertson, R. C.	Collins
Robinson, W. J.	Des Moines
Robinson, J. C.	Denison
Robinson, E. G.	St. Paul, Minn.
Robinson, F. W.	Sioux City
Roback, W. R.	Sellins Grove, Pa.
Robensen, M. A.	Maquoketa
Rorke, O. E.	Arcadia, Wis.
Roche, J. P.	Bellevue
Rounds, L. D.	Albia
Rogers, R. W.	Salem
Rogers, L. E.	Ottumwa
Rogers, H. O.	Ottumwa
Rowell, J. W.	Leon
Rogers, E. A.	Iowa City
Rohrer, E. J.	Nevada
Rosheim, E. I.	Scarville
Rollins, G. H.	Fredericksburg
Rothchilds, W. A.	Madison, S. D.
Rooke, J. H.	Washburn, Ill.
Root, R. T.	Binghamton, N. Y.
Ronna, Julius	Manning
Rosier, G. L.	Independence
Roosevelt, Theo.	Clarion
Roth, J. A.	Rock Rapids
Rundell, O. B.	Monticello
Runnell, Maud B.	Emmetsburg
Rule, F. H.	Ackley
Rule, J. S.	Hampton
Rule, R. W.	San Francisco, Cal.
Ruggles, F. J.	Nevada
Rundorff, A. H.	Wapello
Russell, G. W.	Doon

Russell, H. J.	Albia
Russell, F. E.	Farmersburg
Rupp, Hugh	Muscatine
Rugh, F. W.	Cedar Rapids
Ryder, G. A.	De Witt
Reed, G. F.	Council Bluffs
Sale, H. W.	Illinois
Sanborn, J. F.	*Tabor
Sanford, H. L.	Syracuse, N. Y.
Sargent, C. H.	Volga City
Sargent, A. C.	Des Moines
Sassaman, O. H.	Lisbon, N. D.
Salisbury, F. G.	Griswold
Saner, R. J.	Chicago
Samson, W. R.	Burlington
Schadel, F. K. S.	Red Oak
Schwaner, W. F.	Winterset
Schwaner, R. A.	Winterset
Schwartz, B. F.	Vinton
Schwartz, John	Hartford, S. D.
Schwinn, F. W.	Panora
Schaff, W. E.	Lorimor
Schroeder, G. M.	Dubuque
Schlawig, W. M.	Sioux City
Schmidt, A. L.	Davenport
Schultz, A. F.	Webster City
Sultz, E. J.	Iowa City
Schulze, H. J.	Centerville
Schleiter, J.	La Crosse, Wis.
Schrader, E. A.	Independence
Scroggs, R. E.	Indianola
Scranton, F. H.	Corning
Scovel, R. M.	Fort Madison
Scott, J. E.	Keosauqua
Severance, J. J.	Davenport
Semler, L.	Cedar Rapids
Searles, C. S.	Chicago
Seabert, C. P.	Tama
Seeley, S. L.	Waverly
Seybolt, H. M.	Sioux Falls, S. D.
Seydell, R. A.	Ladora
Secor, Alson	Forest City
Seydell, S. J. K.	Iowa City
Sexton, J. O.	Washington
Seybolt, W. A.	Davenport
Seller, Agnes	Muscatine
Settell, A. R.	Bloomfield, Neb.
Sherwood, J. H.	Ohio
Shouse, A. C.	Plankinton, S. D.

Shriver, H. W.	*Omaha
Shriver, S. K.	Glenwood
Shriver, F. M.	Glenwood
Sherman, J. H.	*Storm Lake
Sherman, G. L.	Carroll
Sherman, T. H.	Fargo, N. D.
Sherman, W. A.	Des Moines
Sheridan, W. H.	Nebraska
Sherer, W. L.	Omaha, Neb.
Sherer, R. E.	Clarion
Shelby, J. A.	Cascade
Shendon, P. H.	Dubuque
Sheldon, A. C.	Nevada
Shetterly, J. S. M.	Stuart
Sharp, J. L.	Fairfield
Sharp, B. B.	Mendota, Ill.
Sharp, W. A.	Des Moines
Sharp, Jos.	Kingsley
Shaw, F. W.	Des Moines
Shane, C. N.	Waterloo
Shattuck, T. N.	Belleville, Wis.
Shankland, J. W.	Pella
Shuck, M. L.	Clarence
Shumaker, J. F.	Colorado
Shumaker, H. C.	Durant
Shurtleff, C. H.	Des Moines
Showalter, E.	*Waterloo
Shumaker, W. C.	Rock Island, Ill.
Shockley, Ned	Burlington Junction, Mo.
Shontz, R. I.	Fayette
Sims, F. E.	Weatherford, Okla.
Sims, N. I.	Dixon, Ill.
Simmonds, F. W.	Ottumwa
Simons, G. M.	Wesley
Simmonds, W. H.	West Union
Silverling, G. E.	Chicago
Silvernail, P. D.	Corydon
Sitzer, C. L.	Cedar Rapids
Sisson, H. B.	Ottumwa
Sippel, C. H.	Lawler
Siefkin, C. W.	Rolfie
Sinn, J. J.	Manning
Sinotte, R. G.	Mankato, Minn.
Skidmore, L. W.	Moline, Ill.
Slate, F. G.	Fort Dodge
Slater, Frank	Missouri
Slatten, A. M.	Des Moines
Slingluff, G. W.	Burlington
Smouse, C. W.	Mount Pleasant

Smesrude, E. A. . . . . Buffalo Center  
 Small, J. L. . . . . Moline, Ill.  
 Small, B. A. . . . . Belle Plaine  
 Smead, H. H. . . . . Epworth  
 Smales, F. B. . . . . Keokuk  
 Smith, D. E. . . . . Wilton  
 Smith, H. . . . . Malvern  
 Smith, B. F. . . . . Centerville  
 Smith, B. M. . . . . Ute  
 Smith, L. B. . . . . Whittemore  
 Smith, D. E. . . . . Wilton  
 Smith, C. W. . . . . Davenport  
 Smith, R. B. . . . . Fort Dodge  
 Smith, E. K. . . . . Indianola  
 Smith, E. W. . . . . Burlington  
 Smith, J. M. . . . . Eddyville  
 Smith, D. F. . . . . Iowa City  
 Snyder, P. B. . . . . Greene  
 Snyder, E. S. . . . . Burlington  
 Snyder, C. M. . . . . Waterloo  
 Snyder, G. J. . . . . Ames  
 Snuggins, L. W. . . . . Des Moines  
 Snodgrass, E. G. . . . . Keokuk  
 Soule, J. W. . . . . \*Ottumwa  
 Solvsberg, Arthur . . . . . Sioux City  
 Sohl, O. L. . . . . Keokuk  
 Soukup, J. E. . . . . Cedar Rapids  
 Spayde, F. M. . . . . Garner  
 Spicer, B. F. . . . . Red Oak  
 Spencer, W. E. . . . . Iowa City  
 Spencer, M. L. . . . . Mitchell, S. D.  
 Spencer, Harvey . . . . . \*Fairfield  
 Spicer, S. S. . . . . Cedar Rapids  
 Spessard, E. W. . . . . Ainsworth  
 Spaulding, H. D. . . . . West Union  
 Sprague, A. L. . . . . Creston  
 Sprague, D. E. . . . . Minneapolis, Minn.  
 Spurgin, C. . . . . Lorimor  
 Sterneman, C. H. . . . . Muscatine  
 Sterneman, C. R. . . . . Nebraska  
 Stimmel, E. C. . . . . Pueblo, Colo.  
 Stearns, C. H. . . . . Owatonna, Minn.  
 Stidger, T. F. . . . . South English  
 Sterdevant, T. B. . . . . Clarence  
 Stark, J. W. . . . . Golden, Colo.  
 Stafford, H. H. . . . . Keokuk  
 Stafford, F. H. . . . . Chicago  
 Stauffer, C. H. . . . . Gowrie  
 Staves, F. I. . . . . Des Moines

Strauss, A. V. . . . . Logan  
 Stevens, J. S. . . . . Shenandoah  
 Stevens, H. H. . . . . Zumbro Falls, Minn.  
 Stevens, H. H. . . . . Burlington  
 Stealy, E. R. . . . . Dunlap  
 Stever, M. F. . . . . Creston  
 Steurwald, C. A. . . . . St. Ansgar  
 Stewart, G. A. . . . . Farragut  
 Stewart, E. E. . . . . Lake Mills  
 Steele, J. F. . . . . Eagle Grove  
 Steele, Wm. H. . . . . Hartings, Neb.  
 Stephens, C. M. . . . . Lehigh  
 Stephens, C. A. . . . . Mitchellville  
 Stanley, J. G. . . . . Orient  
 Stemple, H. F. . . . . Fort Madison  
 Stinehart, J. E. . . . . Mason City  
 Stillman, A. T. . . . . Eagle Grove  
 Stieneker, G. W. . . . . Donnellson  
 Stimmel, E. C. . . . . Pueblo, Colo.  
 Stott, Jos. . . . . Burlington  
 Stoufer, C. W. . . . . Cedar Rapids  
 Stoehr, R. J. . . . . Elgin  
 Stoffel, E. N. . . . . Wyoming  
 Story, W. H. . . . . Indianola  
 Stote, F. C. . . . . Russell  
 Stocker, C. G. . . . . Armstrong  
 Stooksberry, J. H. . . . . Iowa Falls  
 Straub, E. S. . . . . Sioux City  
 Steurwald, L. F. . . . . Colorado  
 Strayer, F. A. . . . . Hudson  
 Stuttaford, H. . . . . Livermore  
 Starbuck, A. W. . . . . Iowa City  
 Starbuck, W. B. . . . . Bricelyn, Minn.  
 Stute, F. N. . . . . Elma  
 Stull, Claude . . . . . Corwith  
 Sturtz, Herman . . . . . Rock Island, Ill.  
 Stryker, A. C. . . . . Afton  
 Struble, Wm. . . . . Inwood  
 Sutpin, E. E. . . . . Davenport  
 Sutton, H. B. . . . . Creston  
 Summa, Richard . . . . . St. Louis  
 Sugg, B. R. . . . . Clinton  
 Summy, C. E. . . . . Pringhar  
 Sullivan, J. S. . . . . Rincon, New Mex.  
 Suthers, W. A. . . . . Richland  
 Sweet, E. S. . . . . Woodbine  
 Sweet, W. S. . . . . Springville, Mo.  
 Sweet, W. S. . . . . Alexander  
 Swain, Ada P. . . . . Marengo



Swain, C. J.	Clearfield
Swain, F. M.	Kewanee, Ill.
Swain, J. E.	Brighton
Swain, S. R.	Marengo
Swartzendruber, J. R.	Kalona
Switzer, F. D.	Cedar Rapids
Sweeney, R. J.	Dubuque
Sweeney, C. A.	Owatonna, Minn.
Taylor, J. A.	Des Moines
Taylor, J. L.	Dubuque
Taylor, E. A.	Griswold
Taylor, F. E. D.	Howa City
Taylor, E. R.	Logansport, Ind.
Taylor, C. A.	Winthrop
Taylor, E. S.	Arlington
Tanna, G. E.	De Witt
Tate, J. M.	State Center
Terry, W. M.	Washington
Teeter, J. N.	Oskaloosa
Teeter, M. H.	Monticello
Teege, Harry	Cedar Rapids
Thomas, C. G.	Des Moines
Thomas, C. L.	Washington
Thomas, C.	Des Moines
Thomas, E. F.	Blockton
Thomas, H. D.	Panora
Thompson, A. B.	Keokuk
Thompson, Hugh	Knoxville
Thompson, I. J.	Centerville
Thompson, D. L.	Corning
Thompson, E. G.	Cedar Falls
Thome, F. S.	Erie, Pa.
Thornton, F. E.	Valley Junction
Thornton, J. H.	Lansing
Thode, G. E.	Burlington
Thormley, F. S.	Waterloo
Thweatt, A. C.	Greenfield
Thweatt G. E.	Greenfield
Thrower, W. H.	Waterloo
Thill, H. R.	Dubuque
Throckmorton, R. F.	Derby
Thelle, A. A.	Emmetsburg
Thrift, W. H.	Dubuque
Tiffany, J. W.	Cedar Point
Tiffany, C. D.	Chicago
Tipton, W. R.	Brooklyn
Tinker, E. T.	Wheatland
Tinker, F. E.	Clinton
Tims, F. B.	Tama

Tirrell, E. V.	Des Moines
Tilden, J. F.	Ames
Tomlinson, A. G.	Des Moines
Tomy, J. I.	Oskaloosa
Townsend, J. R.	California
Towne, R. S.	Denison
Topliff, C. L.	Decorah
Topliff, R. F.	Postville
Tobie, H. A.	Earlville
Tobey, R. R.	Albia
Toney, S. B.	Preston
Toye, W. R.	Decorah
Tourtellott, L. J.	Enid, Okla.
Trainer, M. M.	Sibley
Trussell, C. W.	Reinbeck
Tritchell, F. A.	Albert Lea, Minn.
Trickey, F. S.	Dubuque
Truax, F. E.	Olin
Troutman, J. A.	Newton
Trout, B. E.	Kellerton
Trent, H. G.	Milan, Ill.
True, F. B.	Thompson
True, H. A.	Des Moines
Tullis, M.	Kansas City, Mo.
Tullis, R. H.	Boone
Tullis, G. F.	Ottumwa
Turner, R. L. S.	Stuart
Turner, G. W.	Savannah, Ill.
Tubbs, W. E.	Maquoketa
Tyler, C. P.	Garden Grove
Tyler, B. S.	Rockford, Ill.
Unangst, J. D.	Davenport
Unbehaun, E. C.	Roland
Upton, W. H.	Morning Sun
Van Norden, W. A.	Vienna, Austria
Van Sickle, A. B.	Marshalltown
Van Horn, Wm.	Mount Pleasant
Van Buskirk, W. L.	Clinton
Van, Buskirk, J. M.	Shenandoah
Van Dyke, J. W.	Stoux City
Van Doren, O. E.	Mapleton
Van Oren, A.	Bozeman, Mont.
Van Winter, C.	Seattle, Wash.
Vane, L. F.	Cedar Rapids
Vance, Chas.	Muscatine
Vance, W. W.	Ottumwa
Vance, M. E.	Lincoln, Neb.
Vall, G. W.	Panora

Vaughn, G. A.	Eagle Grove
Vawter, H. M.	Knoxville
Vernon, T. G.	Kansas City, Mo.
Veber, C. R.	*Marshalltown
Verson, L. A.	Pella
Von Lackum, J. P.	*Waterloo
Von Lackum, H. H.	La Porte City
Von Berg, G. W.	Charles City
Volland, R. H.	Iowa City
Vorwald, F. F.	Dubuque
Vorhees, M. M.	Waterloo
Voss, John	Iowa City
Vredenberg, N. E.	Moorhead
Walker, W. H.	West Bend
Walker, W. S.	Perry
Warner, S. E.	Jefferson
Warner, F. L.	Davenport
Warner, R. T.	Hampton
Walters, L. J.	Cedar Rapids
Walter, J. A.	McGregor
Warren, M. W.	Parkersburg
Warren, H. N.	Missouri Valley
Warren, G. E.	Washington
Watts, J.	Des Moines
Watts, C. V.	Des Moines
Ward, Frank	Shelby
Ward, Jesse	Anamosa
Ward, W. C.	Garden Grove
Warder, L. E.	Corydon
Ward, G. G.	Oelwein
Waud, C. C.	Germania
Wallace, S. R.	Hopkinton
Wallace, T. B.	Goldfield
Waterbury, E. M.	*Preston
Waterman, H. A.	Hiteman
Waterman, G. B.	Newell
Waters, F. H.	Ames
Wasson, A. S.	Sioux City
Watland, A. O.	Albert Lea, Minn.
Watkins, C. F.	Lineville
Watland, Clarence	New Sharon
Washburn, R. B.	Humbird, Wis.
Walsh, C. H.	Winnebago, Can.
Walsler, John	Marshalltown
Wait, T. F.	Keota
Watros, R. A.	Cresco
Wanberg, G. E.	Marshalltown
West, H. S.	Council Bluffs
West, Mrs. M. L.	Council Bluffs

West, D. C.	*Pery
West, Jessie A.	Des Moines
Weeks, E. C.	Nashua
Wetzel, D. P.	Kansas
Webber, F. P.	Cherokee
Webber, Mrs. P. J.	Cherokee
Webber, F. G.	Cherokee
Weber, W. O.	Oskaloosa
Weber, S. D.	Vinton
Webb, G. D.	McGregor
Webb, C. A.	Des Moines
Webb, J. E.	McGregor
Weatherbee, J. W.	Dubuque
Wells, Hattie B.	Perry
Wells, Ira H.	Maddock, N. D.
Wells, F. P.	Clarinda
Welsh, J. D.	New Hampton
Weinberg, N.	Keokuk
Weiser, S. V.	Eagle Grove
Weikert, W. H.	Luverne
Weir, C. R.	Cumberland
Wetherell, C. R.	Wessington Springs, S. D.
Webster, Ivory	West Liberty
Waymouth, Ida M.	Toledo
Westcott, H. B.	Kalona
Wertz, J. O.	Thornburg
West, C. E.	Guthrie, Okla.
Westenhaver, E. H.	Iowa City
Westwood, C. E.	Sioux City
Wesley, R. D.	Correctionville
Whinnery, J. L.	*Marshalltown
Wheeler, H. S.	*Charles City
Whelpley, C. B.	Cedar Rapids
White, E. S.	Shenandoah
White, H. H.	Jessup
White, H. P.	Sioux City
Whitehill, G. W.	Oskaloosa
Whitson, O. L.	Mechanicsville
Whitsell, L. L.	Centerville
Wightman, E. E.	Daota
Wilhelm, S. E.	Sac City
Winter, L. H.	Curtis, Neb.
Wilson, I. P.	*Burlington
Wilson, W. A.	Victor
Wilson, J. M.	Greene
Wilson, L. C.	Centerpont
Wilson, L. S.	Burlington
Wilson, R. J.	Oelwein
Wilson, H. D.	California

Wilson, G. W.	Delmar
Wilson, C. W.	Waterloo
Wilson, R. E.	Williams
Williams, E. E.	Davenport
Williams, W. W.	Council Bluffs
Williams, H. K.	Atlantic
Williams, R. O.	Council Bluffs
Williams, A. I.	Chicago
Williams, S. C.	Knoxville
Williams, T. M.	Mount Vernon
Williams, T. E.	Nevada
Williams, J. T.	Denver, Colo.
Williamson, G. B.	Eagle Grove
Williamson, O. L.	Holstein
Wilke, S. M.	Des Moines
Wilkinson, C. W.	Iowa City
Wilkinson, G. R.	Prairieburg
Willey, H. D.	Bloomfield, Neb.
Wiler, W. D.	Cedar Falls
Will, R. T.	Red Oak
Winter, N. B.	Washington
Witter, C. W.	Lansing
Wittmer, E. A.	Adel
Wileox, C. S.	Vinton
Wileox, G. N.	Mondamin
Wild, M. C.	Union City, Ind.
Wickman, G. C.	Seymour
Wisehart, O. M.	Des Moines
Wise, C. A.	Lake City
Wirsig, A. E. L.	Waterloo
Woodbridge, T. H.	Sac City
Woodbury, E. I.	Council Bluffs
Woodbury, H. A.	Council Bluffs
Woodbury, C. E.	Council Bluffs
Woodruff, L. G.	Columbus Junction
Woodruff, L. W.	Correctionville
Woodard, E. H.	Red Oak
Woodard, B. H.	Letts
Woodrow, E. G.	Glenwood
Wood, A.	East St. Louis, Mo.
Wood, H. T.	Eldora
Work, C. M.	Ottumwa
Wood, J. M.	New Sharon
Woodmansee, F. A.	Fort Madison
Wooton, G. H.	Akron
Wolfe, M. V.	Lost Nation
Wolfe, W. A.	Vinton
Wood, Mrs. C. B.	Audubon
Wright, J. F.	Clinton

Wright, Frank	Corning
Wright, F. R.	Wapello
Wright, B. E.	Harrisburg, Pa.
Wright, M. L.	Maquoketa
Wurster, G. P.	Clinton
Wyatt, G. W.	Sigourney
Wyant, A. C.	Hawarden
Wyckoff, C. D.	College Springs
Yeoman, M. B.	Lansing
Yergey, G. B.	Winterset
Young, H. C.	Molton
Young, A. E.	Mankato, Minn.
Young, A. S.	Geneseo, Ill.
Young, L. B.	Cedar Rapids
Young, J. L.	Rolfe
Yule, G. P.	Clinton
Zeran, L. H.	Rookford
Zemke, A. W.	Bode
Ziegler, W. S.	Clinton
Ziegler, O. C.	Owatonna, Minn.

## ADAIR COUNTY.

Brooks, Geo.	Greenfield
Gibford, H. T.	Greenfield
Hubbard, Boyd	Adair
Peek, L. S.	Fontanelle
Stanley, J. G.	Orient

## ADAMS COUNTY.

Seranton, F. H.	Corning
Barnhart, H. C.	Corning
Jackson, J. M.	Prescott
Maloney, J. H.	Nodaway

## ALLAMAKEE COUNTY.

Dempsey, P. F.	Waukon
Dowling, J. B.	Waukon
Johnson, J. H.	Waukon
Miner, Cora, R.	Waukon
Stillman, A. T.	Waukon
Witter, C. W.	Lansing
Yeoman, M. B.	Lansing
Cole, Wm.	Postville
Topliff, Ray	Postville
Hanofin, T. F.	Dorchester

## APPANOOSE COUNTY.

Blachley, C. W.	Centerville
Blachley, H. W.	Centerville
Schulze, H. J.	Centerville

Smith, D. E.	Centerville
Thompson, J. I.	Centerville
Coughran, J. A.	Cincinnati
Frank, A. J.	Moravia
Davis, Freeman	Moulton
Blakeslee, A. W.	Mystic

## AUDUBON COUNTY.

McLeran, C. S.	Audubon
Wood, Carrie Brooks	Audubon
Drake, D. D.	Audubon
Oldaker, L. J.	Exira
Charters, W. J.	Exira

## BENTON COUNTY.

McGowan, J. B.	Vinton
Rose, J. E.	Vinton
Schwartz, B. F.	Vinton
Wolfe, W. A.	Tipton
Bardwell, G. R.	Belle Plaine
Collins, F. B.	Belle Plaine
Hancock, F. B.	Belle Plaine
Noble, E. P.	Belle Plaine
Brady, T. B.	Van Horne
Donnan, W. A.	Keystone
Gary, A. G.	Walker
Porter, J. T.	Blairstown
Penney, C. L.	Shellsburg
Taylor, E. S.	Urbana

## BLACK HAWK COUNTY.

Jensen, James	Cedar Falls
Keene, T. B.	Cedar Falls
Wiler, W. D.	Cedar Falls
Miller, C. B.	Cedar Falls
Mentzer, C. J.	Cedar Falls
Fullerton, K. M.	Cedar Falls
Lynn, A. A.	La Porte
McCoy, T. R.	Waterloo
Shane, C. N.	Waterloo
Edgington, G. H.	Waterloo
Hildebrand, J. G.	Waterloo
Hildebrand, J. A.	Waterloo
Borchers, F. J. T.	Waterloo
Thrower, W. H.	Waterloo
Hoxie, C. R.	Waterloo
Boysen, H. A.	Waterloo
Haffa, F. A.	Waterloo
Heverly, S. F.	Waterloo
Funston, G. E.	Waterloo

Hollenbeck, C. D.	Waterloo
Bruner, C. W.	Waterloo
Debe, W. E.	Waterloo
Wirsig, A. E. L.	Waterloo
Hough, N. H.	Waterloo
Mueller, A. J.	Waterloo
Wilson, C. W.	Waterloo
Haffa, H. D.	Waterloo
Peek, E. E.	Waterloo
Robertson, C. W.	Waterloo
Vorhees, M. M.	Waterloo
Poland, J. M.	Waterloo

## BOONE COUNTY.

Ganoe, O. E.	Boone
Holmes, E. E.	Boone
Knapp, J. M.	Boone
Lutz, I. D.	Boone
Jones, H. C.	Boone
McCrea, H. C.	Boone
Rhoades, C. A.	Boone
Crumm, A. E.	Boone
Anderson, C. E.	Madrid
McBeath, Wm.	Madrid
Bradshaw, W. C.	Ogden

## BREMER COUNTY.

Darnell, G. W.	Sumner
Karsten, H. M.	Sumner
Redman, D. P.	Tripoli
Seeley, S. L.	Waverly
Gross, J. M.	Waverly
Hemingway, J. D.	Waverly
Beyers, C. P.	Waverly
Hanson, C. E.	Waverly

## BUCHANAN COUNTY.

Rosier, G. L.	Independence
Molyneux, W. M.	Independence
Brierly, M. R.	Independence
Plank, F. T.	Independence
Roberts, G. A.	Independence
Schrader, E. A.	Independence
Grenawalt, R. A.	Lamont
Taylor, C. A.	Winthrop
Knowles, A. C.	Jessup
Eichelberg, G. C.	Fairbank

## REPORT OF THE

## BUENA VISTA COUNTY.

Bidwell, E.	Sloux Rapids
Beason, Mary L.	Newell
Beason, S. A.	Newell
Herbert, V. E.	Alta
Hemsworth, L. C.	Marathon
Schultz, E. J.	Storm Lake
Kay, G. H.	Storm Lake

## BUTLER COUNTY.

Warner, W. W.	Parkersburg
Chamberlain, Louis	Parkersburg
Harris, C. S.	Allison
Reynolds, G. H.	Greene
Wilson, J. M.	Greene
Chesebro, M. B.	Shell Rock
Dorman, C. L.	Clarksville
Hesse, J. L.	Clarksville
Crawford, Guy	Dumont

## CALHOUN COUNTY.

Colvig, J. W.	Lake City
Johnson, T. W.	Lake City
Wiese, C. A.	Lake City
Norris, L. L.	Pomeroy
Baker, J. D.	Lohrville
Love, D. T.	Manson
Griffin, F. M.	Manson
Francis, T. P.	Manson
Hood, G. T.	Rockwell City
Parker, J. C.	Rockwell City

## CARROLL COUNTY.

Danes, L. R.	Coon Rapids
Morrow, B. A.	Coon Rapids
Blake, F. G.	Coon Rapids
Easterly, C. A.	Manning
Miller, J. J.	Manning
Sinn, J. J.	Manning
Ronna, Julius	Manning
Gates, Mrs. H. D.	Glidden
Sherman, G. L.	Carroll
Humphrey, W.	Carroll
McCreary, A. F.	Carroll
Drees, L. J.	Carroll
Hillemeyer, F. H.	Carroll

## STATE BOARD OF DENTAL EXAMINERS

## CASS COUNTY.

Hammer, W. U.	Atlantic
McCall, A. D.	Atlantic
Miller, G. R.	Atlantic
Williams, H. K.	Atlantic
Fish, W. E.	Anita
Salisbury, F. G.	Griswold
Taylor, E. A.	Griswold
Bronson, A. E.	Lewis
Peek, E. S.	Messena

## CEDAR COUNTY.

Reichert, C. S.	Bennett
Brock, A. J.	Clarence
Shuck, M. L.	Clarence
Haller, W. E.	Durant
Reidy, J. M.	Mechanicsville
Whitson, O. L.	Mechanicsville
Dannatt, E. G.	Lowden
Bandy, R. S.	Tipton
Casebeer, Bessie, S.	Tipton
Grove, W. A.	Tipton
Munger, M. W.	West Branch
Walker, W. H.	West Branch

## CERRO GORDO COUNTY.

Richardson, F. G.	Mason City
Kelly, J. W.	Mason City
Pool, H. F.	Mason City
Beemer, G. N.	Mason City
Carrick, C. C.	Mason City
Stinehart, J. E.	Mason City
Eberhart, E. A.	Mason City
Qualfe, H. H.	Mason City
Allison, R. J.	Mason City
Clack, W. R.	Clear Lake
Jones, P. H.	Clear Lake
Mortenson, J. C.	Clear Lake
Mortenson, M. H.	Clear Lake
Dexter, C. J.	Rockwell
Colby, N.	Thornton

## CHEROKEE COUNTY.

Dwight, C. F.	Marcus
Rice, J. K.	Aurelia
McGregor, P.	Quimby
Avery, G. E.	Cherokee
Ballard, F. A.	Cherokee
Eshleman, G. W.	Cherokee

Webber, F. P. .... Cherokee  
 Webber, P. J. .... Cherokee  
 Webber, F. G. .... Cherokee

## CHICKSAW COUNTY.

Ableiter, E. A. .... New Hampton  
 Clark, A. E. .... New Hampton  
 Rathbun, C. N. .... New Hampton  
 Welsh, J. D. .... New Hampton  
 Graham, G. D. .... Nashua  
 Forbes, L. S. .... Nashua  
 Murray, J. W. .... Lawler  
 Rollins, G. H. .... Fredericksburg

## CLARKE COUNTY.

Ross, J. A. .... Osceola  
 Mae Reynard ..... Osceola  
 Forney, J. W. .... Osceola  
 Dellahoyde, Hugh ..... Murray

## CLAY COUNTY.

Bettice, Dan'l ..... Spencer  
 Golly, C. E. .... Spencer  
 Crandall, W. G. .... Spencer

## CLAYTON COUNTY.

Donlon, J. P. .... Elkader  
 Jeffers, W. J. .... Elkader  
 Faber, A. J. .... Elkader  
 Walters, J. A. .... McGregor  
 Webb, J. E. .... McGregor  
 Burns, J. J. .... Volga City  
 Krueger, L. F. .... Garnavillo  
 Pohle, E. J. .... Guttenberg  
 Miller ..... Guttenberg  
 Currie, A. L. .... Monona  
 Humphrey ..... Monona

## CLINTON COUNTY.

Hopkins, A. F. .... Clinton  
 Rathbun, R. S. .... Clinton  
 Mullett, E. R. .... Clinton  
 Dingwell, A. .... Clinton  
 Ferstenberg, W. F. .... Clinton  
 Gabriel, W. M. .... Clinton  
 Port, C. F. .... Clinton  
 Wurster, G. P. .... Clinton  
 DuBois, L. L. .... Clinton  
 Ricketts, B. F. .... Clinton  
 Greene, O. E. .... Clinton  
 Sugg, Rush ..... Clinton

Ziegler, W. S. .... Clinton  
 Molt, T. F. .... Clinton  
 Fisher, H. P. .... Clinton  
 Henle, M. F. .... Clinton  
 Connole, C. V. .... DeWitt  
 Tanna, Geo. .... DeWitt  
 Doherty, M. J. .... DeWitt  
 Tinker, Fay ..... Wheatland  
 Wilson, G. W. .... Delmar

## CRAWFORD COUNTY.

Robinson, J. C. .... Denison  
 McConnaughey, R. O. .... Denison  
 Philbrook, B. F. .... Denison  
 Molseed, L. E. .... Vall  
 Liggitt, W. B. .... Manilla  
 Heykens, Herman ..... Charter Oak

## DALLAS COUNTY.

Frush, R. C. .... Adel  
 Witmer, E. A. .... Adel  
 Kellogg, A. V. .... Dallas Center  
 Hemphill, W. J. .... Dexter  
 Brown, A. L. .... Perry  
 Foltz, H. A. .... Perry  
 Hamlin, F. C. .... Perry  
 Harter, C. W. .... Perry  
 Pegg, W. A. .... Perry  
 Beck, A. A. .... Redfield  
 Dames, L. R. .... Redfield

## DAVIS COUNTY.

Allender, D. R. .... Bloomfield  
 Pittman, L. L. .... Bloomfield  
 Ford, A. M. .... Bloomfield  
 Gaumer, A. W. .... Bloomfield

## DECATER COUNTY.

Ward, W. C. .... Garden Grove  
 Mather, J. W. .... Lamoni  
 Mather, W. J. .... Lamoni  
 Nye, W. S. .... Leon  
 Rowell, J. W. .... Leon

## DELAWARE COUNTY.

Dorman, Geo. .... Manchester  
 Dorman, O. S. .... Manchester  
 Newcomb, E. E. .... Manchester  
 Tobie, H. A. .... Earlville  
 Jacobs, C. H. .... Colesburg

Bentley, S. F. ....Hopkinton  
Mason, W. C. ....Hopkinton

## DES MOINES COUNTY.

Baird, W. H. ....Burlington  
Chapman, W. H. ....Burlington  
Cochran, R. L. ....Burlington  
Cooke, T. F. ....Burlington  
Dana, A. W. ....Burlington  
Denise, O. H. ....Burlington  
Hall, L. C. ....Burlington  
Kauffer, J. A. ....Burlington  
Little, J. J. ....Burlington  
Kratz, W. F. ....Burlington  
Madison, H. L. ....Burlington  
Mansfield, F. J. ....Burlington  
Naumann, L. A. ....Burlington  
Nickolas, J. R. ....Burlington  
Rizer, G. E. ....Burlington  
Roe, F. A. ....Burlington  
Samson, W. R. ....Burlington  
Slingluff, G. W. ....Burlington  
Snyder, E. S. ....Burlington  
Stevens, H. H. ....Burlington  
Thode, G. E. ....Burlington  
Smith, E. W. ....Burlington  
Leake, K. S. ....Burlington  
Glantz, Ida ....Burlington  
Creighton, D. M. ....Mediapolis

## DICKINSON COUNTY.

Kepford, J. C. ....Milford  
Gaywood, Harry ....Lake Park  
Rector, C. E. ....Spirit Lake

## DUBUQUE COUNTY.

Clark, F. B. ....Dubuque, 815 Main Street  
Conzett, J. V. ....Dubuque, 256 Thirteenth Street  
Goble, M. D. ....Dubuque, Cor. Third and Main Streets  
Haggarty, R. E. ....N. E. Cor. Thirteenth and Clay Streets  
Helsey, D. J. ....Dubuque 1100 Main Street  
Jones, J. A. ....Dubuque, 997 Locust Street  
Knapp, H. G. ....Dubuque, 621 Main Street  
Leonard, J. J. ....Dubuque, 963 Main Street  
McParland, J. F. ....Dubuque, 700 B and I Streets  
Maguire, J. O. ....Dubuque, Cor. Eighth and Main Street  
Meshinger, J. A. ....Dubuque, 210 Security Bldg.  
Minger H. ....Dubuque, Cor. Seventeenth and Clay Streets  
Mullen, W. L. ....Dubuque, Cor. Ninth and Main Streets  
Murray, J. B. ....Dubuque, Fourteenth and Clay Streets

Peterson, C. J. ....Dubuque, 1200 Main Street  
Shendon, F. H. ....Dubuque, 1206 Iowa Street  
Sweeney, R. J. ....Dubuque, Seventh and Main Streets  
Taylor, J. L. ....Dubuque, 893 Main Street  
Thill, H. R. ....Dubuque, N. E. Cor. Eleventh and Iowa Street  
Vorwald, F. F. ....Dubuque, Twentieth and Couler Avenue  
Holmes, H. L. ....Dubuque, Seventeenth and Clay Street  
Knoll, O. A. ....Dubuque, 1197 Iowa Street  
McEvoy, A. E. ....Dubuque, 208, B & I Bldg.  
Meis, W. A. ....Dubuque, 1596 Clay Street  
McGuigan, V. A. ....Dubuque, 528 B & I Bldg.  
Schroeder, G. M. ....Dubuque, 605 B & I Bldg.  
Hoag, G. W. ....Dubuque, 964 Main Street  
Powers, G. W. ....Dubuque, Eighth and Locust Street  
Payne, C. B. ....Farley  
Hummel, A. T. ....Dyersville  
Lang, F. X. ....New Vienna  
Smead, H. H. ....Epworth  
Shelby, J. A. ....Cascade

## EMMETT COUNTY.

Clinite, J. I. ....Estherville  
Galloway, W. P. ....Estherville  
Ivy, A. ....Estherville  
Stocker, C. G. ....Armstrong  
Rice, W. J. ....Armstrong

## FAYETTE COUNTY.

Spaulding, H. D. ....West Union  
Cannon, W. L. ....West Union  
Leach, D. S. ....West Union  
Davis, J. C. ....Oelwein  
Harper, A. S. ....Oelwein  
Ward, G. G. ....Oelwein  
Miner, F. D. ....Oelwein  
Dorman, J. E. Sr. ....Fayette  
Dorman, J. M. Jr. ....Fayette  
Belding, H. H. ....Waucoma  
Taylor, E. S. ....Arlington  
Hecht, R. H. ....Hawkeye  
Hutchinson, L. S. ....Elgin  
Wilson, R. J. ....Oelwein

## FLOYD COUNTY.

Bronson, I. C. ....Nora Springs  
Bronson, A. F. ....Nora Springs  
Bailey, Edgar ....Charles City  
Clark, A. D. ....Charles City  
Eshleman, C. D. ....Charles City  
Petry, John ....Charles City

Palmer, C. M.	Charles City
Von Berg, G. W.	Charles City
McNinch, S. W.	Marble Rock
McNinch, J. S.	Rockford
Zeran, L. H.	Rockford

## FRANKLIN COUNTY.

Musser, F. C.	Hampton
Rule, J. S.	Hampton
Warner, R. T.	Hampton
Jeffers, L. L.	Hampton
Moss, Solomon	Sheffield

## PREMONT COUNTY.

Pittman, E. W.	Taber
Clark, R. H.	Taber
Stewart, Guy	Farragut
Hayes, H.	Hamburg
Lovelady, J. A.	Hamburg
Mitchell, S. T.	Hamburg
Penn, W. A.	Sidney
Gore, F. A.	Sidney

## GREENE COUNTY.

Lyon, Ernest	Jefferson
Barker, S. G.	Jefferson
Kettell, H. C.	Jefferson
Latcham, Earl	Grand Junction
Humphrey, C. H.	Grand Junction
Jackson, E. M.	Scranton
Anderson, J. B.	Payton
Conant, M. A.	Churdan

## GRUNDY COUNTY.

Brook, B. C.	Conrad
Trussell, C. W.	Reinbeck
Hall, E. A.	Reinbeck
Bronson, J. L.	Reinbeck
Beckman, F. S.	Grundy Center
Lynn, W. R.	Grundy Center

## GUTHRIE CENTER.

Daugherty, T. E.	Guthrie Center
Fordyce, C.	Guthrie Center
Piner, H. E.	Stuart
Gray, L. B.	Stuart
Thomas, H. D.	Panora
Schwin, F. W.	Panora
Keefe, E. M.	Casey
Munger, F. E.	Bayard

## HAMILTON COUNTY.

Lundell, H. W.	Webster City
Boysen, F. A.	Webster City
Mahood, D. G.	Webster City
Pote, R. W.	Webster City
Schultz, A. F.	Webster City
Kellogg, A.	Webster City
Wilson, R. E.	Williams
Allen, W. S.	Jewell
DeLa, R. W.	Jewell
Holaday, S. F.	Stratford

## HANCOCK COUNTY.

Stute, F. N.	Corwith
Heacox, F. E.	Britt
Bralley, E. E.	Britt
Spade, F. M.	Garner
Morrison, J. C.	Garner

## HARDIN COUNTY.

Rule, F. H.	Ackley
Rath, R. C.	Ackley
Carter, E. O.	Iowa Falls
McClanahan, W. B.	Iowa Falls
Stocksberry, H. J.	Iowa Falls
McDowell, C. E.	Iowa Falls
Diehl, G. E.	Eldora
Kier, G. P.	Eldora
Wood, H. T.	Eldora
Horton, F. W.	Eldora
Hurst, T. H.	Alden
Bixby, R. L.	Union
Preston, F. M.	Radcliffe
Magruder, G. R.	Hubbard

## HARRISON COUNTY.

Lahman, R. C.	Missouri Valley
McEvoy, R. D.	Missouri Valley
Giddings, E. T.	Missouri Valley
Warren, Horace	Missouri Valley
Humphrey, M. A.	Logan
Strauss, A. V.	Logan
Lande, Guy	Dunlap
Stealy, E. R.	Dunlap
Dewell, W. C.	Woodbine

## HENRY COUNTY.

Duncan, W.	Winfield
Glass, H. L.	Winfield
Richey, C. E.	New London



Andrews, G. J.	.....	New London
Rawhouser, C. D.	.....	Salem
Ridder, E. G.	.....	Wayland
Ball, J. O.	.....	Mount Pleasant
Hunt, J. C.	.....	Mount Pleasant
Jerrel, C. O.	.....	Mount Pleasant
Edwards, F. M.	.....	Mount Pleasant
Punton, A. L.	.....	Mount Pleasant

## HOWARD COUNTY.

Kellogg, E. A.	.....	Cresco
Allen, E. H.	.....	Cresco
Morton, R. A.	.....	Cresco
Kellogg, G. H.	.....	Cresco
Clemmer, J. J.	.....	Cresco
Freemire, F. N.	.....	Chester
Palmer, V. G.	.....	Riceville
McNeil, J. C.	.....	Elma
Stute, F. N.	.....	Elma

## HUMBOLDT COUNTY.

Devereaux, C. H.	.....	Humboldt
Ferreby, T. G.	.....	Humboldt
Gates, A. G.	.....	Livermore
Zempke, A. W.	.....	Bode

## IDA COUNTY.

Besore, C. F.	.....	Ida Grove
Besore, J. H.	.....	Ida Grove
Clark, A. B.	.....	Ida Grove
Buckley, C. R.	.....	Holstein
Williamson, O. L.	.....	Holstein
McKibbin, G. P.	.....	Battle Creek

## IOWA COUNTY.

Seydel, R. A.	.....	Ladora
Hinkley, H. D.	.....	Williamsburg
Gardner, H. H.	.....	Williamsburg
Anger, H. W.	.....	Victor
McSwiggin, J. F.	.....	Victor
Koch, A. F.	.....	Amama
Foster, C. G.	.....	North English
Read, W. A.	.....	Marengo
Swain, S. R.	.....	Marengo
Swain, Ada P.	.....	Marengo
Green, E. B.	.....	Marengo
Addington, Earl	.....	Marengo

## JACKSON COUNTY.

Ellis, Gideon	.....	Maquoketa
Ellis, J. B.	.....	Maquoketa
Robinson, M. A.	.....	Maquoketa
Wright, M. L.	.....	Maquoketa
Potter, F. G.	.....	Maquoketa
Phillips, E. A.	.....	Maquoketa
Ellis, G. C.	.....	Bellevue
Gibbons, E. A.	.....	Bellevue
Glew, H. M.	.....	Preston
Tubbs, W. E.	.....	Maquoketa

## JASPER COUNTY.

Miller, B. A.	.....	Newton
Green, O. N.	.....	Newton
Eustice, E. L.	.....	Newton
Joy, A. P.	.....	Newton
Joy, Anna H.	.....	Newton
Joy, H. J.	.....	Newton
Cain, W. P.	.....	Colfax
Blake, F. G.	.....	Colfax
Baker, R. K.	.....	Colfax
Adair, W. S.	.....	Kellogg
Craven, J. G.	.....	Kellogg
Hargis, N. C.	.....	Baxter
Cochrane, L. W.	.....	Monroe
Hemminger, D. M.	.....	Prairie City

## JEFFERSON COUNTY.

Byers, R. E.	.....	Batavia
Bock, E. C.	.....	Fairfield
Fourt, Frank	.....	Fairfield
James, T. L.	.....	Fairfield
McElderry, C. A.	.....	Fairfield
Monfort, J. B.	.....	Fairfield
Irwin, R. W.	.....	Fairfield

## JOHNSON COUNTY.

Chapman, F. P.	.....	Iowa City
Brown, G. V. I.	.....	Iowa City
Breene, F. T.	.....	Iowa City
Branson, L. L.	.....	Iowa City
Spence, W. E.	.....	Iowa City
Jones, M. A. H.	.....	Iowa City
Hosford, W. S.	.....	Iowa City
Morrow, Harry	.....	Iowa City
Lawyer, L. G.	.....	Iowa City
Voss, John	.....	Iowa City
Pelton, H. C.	.....	Iowa City

Volland, R. H.	Iowa City
Rogers, E. A.	Iowa City
Harned, C. W.	Iowa City
Wilkinson, C. W.	Iowa City
Kelly, T. H.	Oxford
Mead, W. J.	Oxford
Brock, H. B.	Lone Tree
DeLano, C. L.	Lone Tree

## JONES COUNTY.

Erb, B. F.	Anamosa
McLeod, E. A.	Anamosa
Ward, J.	Anamosa
Heffner, F. A.	Monticello
Maurice, A. M.	Monticello
Teeters, M. H.	Monticello
Truax, F. E.	Olin
Moravec, A. J.	Oxford Junction
Stoffel, E. N.	Wyoming

## KEOKUK COUNTY.

Baughman, G. P.	What Cheer
Galbraith, Hugh	What Cheer
Black, J. C.	Keota
Palmer, W. T.	Keota
Suthers, W. A.	Richland
Footo, L. L.	Richland
Stidger, T. F.	South English
Eller, C. L.	Hedrick
Eller, L. R.	Ollie
Hinkley, L. H.	Sigourney
Golthwait, G. G.	Sigourney
Black, G. C.	Delta

## KOSSUTH COUNTY.

Devereaux, H. C.	Algona
Glasier, E. S.	Algona
Kaln, W. E.	Algona
Rist, A. L.	Algona
Welkert, W. H.	Luverne
Beemis, O. H.	Bancroft
Pratt, D. W.	Burt
Kulander, Henry	Swea City
Greene, E. A.	Wesley
Smith, L. B.	Whittemore

## LEE COUNTY.

Brownlee, E. C.	Keokuk
Cameron, W. W.	Keokuk
Forney, J. E.	Keokuk

Gaston, S. M.	Keokuk
Gramm, Sarah	Keokuk
Hinkley, B. C.	Keokuk
Marsh, J. W.	Keokuk
Smales, F. B.	Keokuk
Sohl, O. L.	Keokuk
Stafford, H. H.	Keokuk
Thompson, A. B.	Keokuk
Perdew, E. J.	Keokuk
Courtright, E. E.	Fort Madison
Hazen, E. P.	Fort Madison
Hobbs, J. M.	Fort Madison
Maloney, J. C.	Fort Madison
Scovel, R. M.	Fort Madison
Stemple, H. F.	Fort Madison
Woodmansee, F. A.	Fort Madison
Stieneker, G. W.	Donnellson
Roberts, M. C.	West Point

## LINN COUNTY.

Fitzgerald, E. G.	Cedar Rapids
Booth, C. N.	Cedar Rapids
Barnaby, W. J.	Cedar Rapids
Brotherton, S. S.	Cedar Rapids
Calder, H. J.	Cedar Rapids
McClelland, F.	Cedar Rapids
Miller, F. E.	Cedar Rapids
Ockerman, C. L.	Cedar Rapids
Ockerman, W. H.	Cedar Rapids
Rugh, F. W.	Cedar Rapids
Whelpley, C. B.	Cedar Rapids
Harmon, Wm.	Cedar Rapids
Hasek, A. M.	Cedar Rapids
Hasek, F. V.	Cedar Rapids
Hynds, J.	Cedar Rapids
McKeeby, R. H.	Cedar Rapids
Maresk, R.	Cedar Rapids
Moravec, E. L.	Cedar Rapids
Naibert, W. F.	Cedar Rapids
Nenahlo, C. J.	Cedar Rapids
North, Gustavus	Cedar Rapids
Patterson, W. D.	Cedar Rapids
Richardson, L. E.	Cedar Rapids
Soukup, J. E.	Cedar Rapids
Vane, L. F.	Cedar Rapids
Check, F. J.	Cedar Rapids
Finn, Wm.	Cedar Rapids
Switzer, F. D.	Cedar Rapids
Dennis, A. B.	Cedar Rapids
Teege, Harry	Cedar Rapids

Beeman, C. E.	Cedar Rapids
Hasek, V. O.	Cedar Rapids
Holmquist, D. E.	Cedar Rapids
Booth, J. J.	Marion
Booth, J. M.	Marion
Caldwell, W. J.	Marion
Dow, L. C.	Marion
Nott, J. R.	Marion
Wilkinson, G. R.	Prairieburg
Gormley, T. A.	Mount Vernon
Williams, T. M.	Mount Vernon
Hodgin, W. E.	Springville
Oyler, W. S.	Springville
Kinsley, J. D.	Lisbon
Gary, A. G.	Walker
Pherrin, J. B.	Central City
Houser, D. G.	Center Point

## LOUISA COUNTY.

Woodruff, L. G.	Columbus Junction
Hubbard, J. W.	Columbus Junction
Carl, C. E.	Morning Sun
Hoag, C. E.	Wapello
Christie, B. L.	Wapello

## LUCAS COUNTY.

Anderson, W. L.	Chariton
Brant, C. T.	Chariton
Perry, M. M.	Chariton
Perry, Percy	Chariton
Greeno, J. F.	Chariton
Throckmorton, Fred	Derby
Stote, F. C.	Russell

## LYON COUNTY.

Roth, J. A.	Rock Rapids
Maloney, J. J.	Rock Rapids
Grout, J. C.	Rock Rapids

## MADISON COUNTY.

Pratt, G. M.	Winterset
Cooper, R. S.	Winterset
Leech, C. R.	Winterset
Jones, Mabel	Winterset
Schwanner, R. A.	Winterset
Holmes, R. A.	Earlham
Frech, R. E.	St. Charles

## MAHASKA COUNTY.

Ellsworth, P. J.	Oskaloosa
Tomy, J. J.	Oskaloosa
Miller, W. G.	Oskaloosa
Teeter, J. N.	Oskaloosa
Redmon, F. B.	Oskaloosa
Whitehill, G. W.	Oskaloosa
Weber, W. O.	Oskaloosa
Fleener, J. E.	Oskaloosa
Woods, J. M.	New Sharon
Watland, Clarence	New Sharon
McVay, H. R.	Eddyville

## MARION COUNTY.

Garretson, C. F.	Knoxville
Cornell, D. D.	Knoxville
McMartin K.	Knoxville
Keeton, A. F.	Knoxville
Vawter, H. M.	Knoxville
Duffy, M. H.	Bussey
Evans, A. J.	Pleasantville
McAllister, H. M.	Pella
Vierson, L. A.	Pella
Mitten, J. C.	Pella
Frahm, F. W.	Pella

## MARSHALL COUNTY.

Choate, W. M.	Marshalltown
Collison, D. A.	Marshalltown
Echternacht, H. F.	Marshalltown
Hynds, Winona	Marshalltown
Hynds, F. S.	Marshalltown
Humeston, F. L.	Marshalltown
Kellogg, L. F.	Marshalltown
Kinnan, H. A.	Marshalltown
Wanberg, Geo. E.	Marshalltown
Walsler, John	Marshalltown
Van Sickle, A. B.	Marshalltown
Miller, G. W.	Marshalltown
Mueller, H. C.	Marshalltown
Ball, F.	State Center
Cowan, W. A.	State Center
Lynn, E. C.	State Center
Robertson, R. C.	State Center
Bixby, R. L.	Union
Dunkle, C. S.	Gilman
Ellis, I. N.	Rhodes
McCormick, Arthur	Clemons

## REPORT OF THE

## MILLS COUNTY.

Shriver, F. M.....	Glenwood
Shriver, S. K.....	Glenwood
McCluskey, F. M.....	Glenwood
Woodrow, E. G.....	Glenwood
Hiett, W. M.....	Malvern
Laind, J. O.....	Malvern
Houston, R. C.....	Emerson
Curran, J. J.....	Henderson

## MITCHELL COUNTY.

Cutler, D. E.....	Osage
Cutler, E. V.....	Osage
Damon, E. R.....	Osage
Drummond, C. E.....	Osage
Genung, G. E.....	Osage
Steurwald, C. A.....	St. Ansgar
Echburg, A. N.....	St. Ansgar
Lappin, M. R.....	Riceville
Palmer, V. G.....	Riceville
Brown, Esther M.....	Stacyville

## MONONA COUNTY.

Cope, C. W.....	Onawa
Henderlinder, E. A.....	Onawa
Nourse, H. F.....	Mapleton
Van Doren, O. E.....	Mapleton
Smith, E. M.....	Ute
Vredenburg, R. E.....	Moorhead

## MONROE COUNTY.

Gantz, H. H.....	Albia
Hoover, C. G.....	Albia
Tobey, R. R.....	Albia
Fowlering, J. W.....	Albia
Waterman, H. A.....	Hiteman
Goodshall, Oliver.....	Buxton

## MONTGOMERY COUNTY.

Rawlston, J. T.....	Elliott
Dearborn, Helen T.....	Red Oak
Manker, J. W.....	Red Oak
Morris, R. D.....	Red Oak
Schadel, F. S.....	Red Oak
Spicer, B. F.....	Red Oak
Will, R. T.....	Red Oak
Woodard, E. M.....	Red Oak
Jenkins, F. L.....	Villisca
Kelsay, F. M.....	Villisca

## STATE BOARD OF DENTAL EXAMINERS

King, G. E.....	Villisca
Phillips, O. E.....	Villisca
McMaster, G. A.....	Stanton

## MUSCATINE COUNTY.

Bompke, M. P.....	Muscatine
Dalzell, Emma E.....	Muscatine
Dalzell, H. M.....	Muscatine
Girls, C. L.....	Muscatine
Hautsch, F. A.....	Muscatine
Kulp, J. S.....	Muscatine
Lange, H. F.....	Muscatine
Lingo, A. M.....	Muscatine
McNutt, R. S.....	Muscatine
Martin, J. T.....	Muscatine
Peterson, A. A.....	Muscatine
Sterneman, Caspar.....	Muscatine
Klaffenbach, A. O.....	Muscatine
Howe, G. R.....	Muscatine
James, F. B.....	Wilton Junction
Smith, D. E.....	Wilton Junction
Dillingham, E. H.....	West Liberty
Jayne, W. B.....	West Liberty
Long, W. M.....	West Liberty

## O'BRIEN COUNTY.

Brock, G. G.....	Sheldon
Brown, F. J.....	Sheldon
Beach, A. W.....	Sheldon
McKay, G. C.....	Sheldon
Duncan, A. L.....	Sanborn
Summy, C. E.....	Primghar
Maytum, B. J.....	Paullina
Kenderdine, W. H.....	Sutherland
Conn, F. A.....	Hartley

## OSCEOLA COUNTY.

Graham, J. A.....	Ocheyedan
Gallagher, Frank.....	Ashton
Trainer, M. M.....	Sibley
Dixon, G. E.....	Sibley
Harvey, H. J.....	Sibley

## PAGE COUNTY.

Lewis, L. W.....	Shenandoah
White, E. S.....	Shenandoah
Stevens, J. S.....	Shenandoah
Richardson, H. N.....	Shenandoah
Van Buskirk, J. M.....	Shenandoah
Harrison, E. R.....	Clarinda

Wells, F. P. .... Clarinda  
 Brown, J. P. .... Clarinda  
 Anderson, R. W. .... Clarinda  
 Hockabout, Wm. .... Blanchard  
 Wyckoff, C. D. .... College Springs  
 Kinney, C. L. .... Essex

## PALO ALTO COUNTY.

Thomas, E. F. .... Emmetsburg  
 Kidder, R. E. .... Emmetsburg  
 Thelle, A. A. .... Emmetsburg  
 Bliss, J. A. .... Ruthven  
 Kulp, D. E. .... West Bend  
 Osher, B. T. .... Graettinger

## PLYMOUTH COUNTY.

Joynt, R. J. .... Le Mars  
 E. D. Brower. .... Le Mars  
 Lucke, P. P. .... Le Mars  
 Dwight, W. H. .... Le Mars  
 Cunningham, G. W. .... Le Mars  
 Sharp, J. .... Kingsley  
 Kuster, S. W. .... Remsen  
 Wooton, G. H. .... Akron  
 Conger, L. J. .... Akron

## POCAHONTAS COUNTY.

Hibbs, T. G. .... Fonda  
 Leece, S. E. .... Fonda  
 Furman, W. O. .... Pocahontas  
 Young, J. L. .... Rolfe  
 Seifkin, C. W. .... Rolfe  
 Hamblly, J. T. .... Gilmore  
 Beams, F. N. .... Laurens

## POLK COUNTY.

Neuman, W. .... Des Moines, Utica Building  
 Shaw, F. W. .... Des Moines, Utica Building  
 Harrod, W. A. .... Des Moines, Utica Building  
 Rozelle, E. L. .... Des Moines, Utica Building  
 Hurd, H. A. .... Des Moines, Utica Building  
 Oberman, B. E. .... Des Moines, Utica Building  
 Haas, A. L. .... Des Moines, Utica Building  
 Nye, A. L. .... Des Moines, Utica Building  
 Hunt, F. M. .... Des Moines, Utica Building  
 West, J. A. .... Des Moines, Utica Building  
 Connor, R. S. .... Des Moines, Utica Building  
 Raiston, F. N. .... Des Moines, Utica Building  
 Capps, H. R. .... Des Moines, Flynn Building  
 Webb, C. A. .... Des Moines, Flynn Building

Cameron, W. J. .... Des Moines, Flynn Building  
 Becker, A. F. .... Des Moines, Citizens Bank Building  
 Grimm, R. C. .... Des Moines, Citizens Bank Building  
 Gruenfeld, J. .... Des Moines, Citizens Bank Building  
 Miller, G. W. .... Des Moines, Citizens Bank Building  
 Bradner, F. C. .... Des Moines, Citizens Bank Building  
 Sharp, W. A. .... Des Moines, Citizens Bank Building  
 Kennedy, C. M. .... Des Moines, Citizens Bank Building  
 McKay, W. N. .... Des Moines, Good Block  
 Hanson, N. W. .... Des Moines, Good Block  
 Hughes, E. E. .... Des Moines, Good Block  
 Thomas, C. .... Des Moines, Century Building  
 Robertson, C. B. .... Des Moines, Century Building  
 Fairall, J. A. .... Des Moines, Century Building  
 McCarty, A. L. .... Des Moines, Century Building  
 McCarty, W. .... Des Moines, Century Building  
 Watts, C. V. .... Des Moines, K. P. Block  
 Akers, L. P. .... Des Moines, K. P. Block  
 Staves, F. D. .... Des Moines, K. P. Block  
 Laird, C. E. .... Des Moines, K. P. Block  
 Charters, W. J. .... Des Moines, Fleming Building  
 Hallett, J. A. .... Des Moines, Fleming Building  
 Snuggins, L. W. .... Des Moines, Fleming Building  
 Keeler, H. D. .... Des Moines, Fleming Building  
 Harmon, C. H. .... Des Moines, E. of Fifth on Walnut Street  
 Begun, A. R. .... Des Moines, Sixth and Walnut Streets  
 Dwight, J. H. .... Des Moines, Florsheims  
 Darling, L. H. .... Des Moines, Namura  
 Robinson, W. J. .... Des Moines, Masonic Temple  
 Entrikin, J. B. .... Des Moines, Equitable Building  
 True, H. A. .... Des Moines, Alpha Floral  
 Cory, F. M. .... Des Moines, Twentieth and Forest  
 Cory, H. H. .... Des Moines, Twenty-fifth and University  
 Slatten, A. M. .... Des Moines, Twenty-sixth and University  
 McGuire, J. H. .... Des Moines, Highland Park  
 Berkey, N. C. .... Des Moines, S. E. Cor. Sixth and Walnut Streets  
 Neely, W. L. .... Des Moines, 520 Walnut Street  
 Lynch, O. E. .... Des Moines, Equitable Building  
 Elmquist, H. A. .... East Des Moines, Bank Building  
 Thomas, C. G. .... East Des Moines, Bank Building  
 Marion, J. W. .... East Des Moines, Bank Building  
 O'Malley, M. V. .... East Des Moines  
 Heaton, W. N. .... East Des Moines  
 McNutt, S. B. .... East Des Moines  
 Houghton, M. J. .... Valley Junction  
 Thornton, F. E. .... Valley Junction  
 Waterman, H. A. .... Runnels  
 Stephens, C. A. .... Mitchellville

## POTTAWATTAMIE COUNTY.

Pomeroy, Roy	Avoca
Maxwell, W. A.	Avoca
Read, C. H.	Avoca
Rawlston, C. S.	Carson
Reed, A.	Hancock
Brandt, C. R. M.	Neola
Haight, P. F.	Oakland
Read, E. G.	Oakland
Brown, Geo.	Council Bluffs
Covalt, Scott	Council Bluffs
Deetken, J. C.	Council Bluffs
Hamilton, Gall	Council Bluffs
Jefferies, Chas.	Council Bluffs
Lewis, Claude	Council Bluffs
Poston, L. L.	Council Bluffs
Roe, Leroy	Council Bluffs
West, H. S.	Council Bluffs
West, Minerva L.	Council Bluffs
Williams, R. O.	Council Bluffs
Woodbury, H. A.	Council Bluffs
Woodbury, C. E.	Council Bluffs
McCall, S. W.	Council Bluffs
Johnson, C. V.	Council Bluffs
Reed, Glenn	Council Bluffs
Guernsey, L. E.	Council Bluffs

## POWESHIEK COUNTY.

Billings, J. W.	Grinnell
Gallagher, O. H.	Grinnell
Lemley, L. G.	Grinnell
Derr, Mrs. D. W.	Grinnell
Holsen, Allene M.	Grinnell
Anger, A. E.	Brooklyn
Niswander, C. H.	Brooklyn
Anger, H. W.	Victor
Leonard, J. A.	Deepriver
High, D. B.	Montezuma
Graham, A. B.	Montezuma

## RINGGOLD COUNTY.

Horton, J. P.	Tingley
Miller, A. K.	Mount Ayr
Miller, C. E.	Mount Ayr
Clark, F. C.	Mount Ayr

## SAC COUNTY.

Oursler, W. N.	Odebolt
McCulla, Roy	Odebolt
O'Grady, J. E.	Schaller
Morris, J. L.	Wall Lake
Molsberry, W. I.	Sac City

## SCOTT COUNTY.

Baker, C. R.	Davenport, 200-1 Whittaker Bldg.
Blakemore, M. G.	Davenport, 8 Franklin Bldg.
Brown, H. A.	Davenport, 329½ W. 3d St.
Carroll, W. D.	Davenport, Whittaker Bldg.
Case, Roy A.	Davenport, 106 W. 2d St.
Connell, J. D.	Davenport, Whittaker Bldg.
Dessaint, L. R.	Davenport, 401 Lane Bldg.
Doran, O. D.	Davenport, 109 E. 3d St.
Dueser, F. H.	Davenport, 54 McManus Bldg.
Evans, S. J.	Davenport, 301 Putnam Bldg.
Hayes, J. B.	Davenport, 102 W. 2d St.
Kelly, M. J.	Davenport, 212 W. 2d St.
Kerrigan, J. A.	Davenport, 414 Central Bldg.
Littig, H. A.	Davenport, 301 Brady St.
Letts, H. L.	Davenport, 343 Hageboeck Bldg.
McCandless, C. R.	Davenport, 55 McManus Bldg.
McGarvey, L. E.	Davenport, 34 McCullough Bldg.
McKee, J. W.	Davenport, Savings Bank Bldg.
Mitchell, W. T.	Davenport, 21 Whittaker Bldg.
Morgan, J. B.	Davenport, 206 S. Putnam Bldg.
Pape, H. G.	Davenport, 25 McManus Bldg.
Parmele, F. M.	Davenport, 8 Franklin Bldg.
Schmidt, A. L.	Davenport, 115 E. 3d St.
Smith, C. W.	Davenport, 318 Bridge St.
Sebolt, W. A.	Davenport, 57 Schmidt Bldg.
Sutphin, E. E.	Davenport, 409 Central Office Bldg.
Unangst, J. D.	Davenport, 22 Whittaker Bldg.
Warner, F. L.	Davenport, 403 Brady St.
Williams, E. E.	Davenport, 3d and Brady Sts.
Haller, W. E.	Walcott
Meyers, C. E.	Le Claire

## SHELBY COUNTY.

Overfield, M. S.	Harlan
Osborn, R. L.	Harlan
Errett, G. E.	Harlan
Dorman, Harry	Harlan
Christiansen, C. E.	Harlan
Jones, J. N.	Shelby

## SIOUX COUNTY.

Beach, C. L.	Hull
De Mots, H.	Sioux Center
Matheson, G. A.	Ireton
Cornish, M. S.	Alton
Dixon, F. L.	Rock Valley
Renshaw, C. W.	Rock Valley
Mann, A.	Hawarden
Wyant, A. C.	Hawarden
Ogg, J. A.	Orange City
De Bey, C.	Orange City

## STORY COUNTY.

Arthur, S. W.	Nevada
Richards, J. L.	Nevada
Williams, T. E.	Nevada
Price, F. O.	Colo
Robertson, R. C.	Collins
Ellis, G. H.	Maxwell
King, C. A.	Maxwell
Edwards, A. U.	Cambridge
Nott, G. R.	Slater
Tilden, J. F.	Ames
Hunt, C. E.	Ames
Kelso, N. H.	Ames
Rice, T. L.	Ames
Waters, F. H.	Ames
Snyder, G. J.	Ames
McCarthy, C. B.	Story City
Unbehaun, E. C.	Roland
McCormic, A. J.	Zearing

## TAMA COUNTY.

Batcher, W. H.	Toledo
Haselton, H. B.	Toledo
Ball, E. H.	Tama
Seabert, C. P.	Tama
Tims, F. B.	Tama
Brown, C. H.	Traer
Porterfield, Roy	Traer
Lynn, C. C.	Dysart
Fisher, L. E.	Gladbrook
Rath, T. H.	Gladbrook
Lyons, W. W.	Garwin

## TAYLOR COUNTY.

Manker, G. F.	Bedford
Bates, N. J.	Bedford
Paschal, K. B.	Bedford
Thomas, F. E.	Blockton

Dunlavy, W. S.	Gravily
Carey, F. P.	Clearfield
Swain, C. J.	Clearfield
Ellis, W. H.	Lennox
Dey Ermand, W. J.	Lennox

## UNION COUNTY.

Stryker, A. C.	Afton
Phillips, W. J.	Afton
Schaff, W. E.	Lorimer
Herron, J. G.	Creston
Sutton, H. B.	Creston
Sprague, A. L.	Creston
Harmon, J. B.	Creston
Stever, M. F.	Creston
Cretors, C. R.	Creston

## VAN BUREN COUNTY.

McClurg, F. M.	Keosauqua
Scott, J. E.	Keosauqua
Percival, C. S.	Bonaparte
Knight, N. P.	Farmington
McClurg, C.	Millton
Carpenter, G. A.	Cantril
Miller, W. M.	Douds
Byers, R. E.	Birmingham
Lindholm, M. J.	Farmington

## WAPELLO COUNTY.

McVay, H. R.	Eddyville
Long, Martin	Eddyville
Calhoun, J. F.	Eldon
Hurst, H. E.	Eldon
Justice, P. C.	Blakesburg
Armstrong, J. N.	Ottumwa
Armstrong, L. H.	Ottumwa
Boone, W. C.	Ottumwa
Brown, D. J.	Ottumwa
Creath, W. E.	Ottumwa
Dunnung, W. L.	Ottumwa
Goldsmith, W. S.	Ottumwa
Holmes, L. G.	Ottumwa
Lewis, C.	Ottumwa
Lewis, F. A.	Ottumwa
McDonald, W. F.	Ottumwa
McEvoy, J. M.	Ottumwa
Smith, J. M.	Ottumwa
Tullis, G. F.	Ottumwa
Vance, W. W.	Ottumwa
Work, C. M.	Ottumwa

Lee, A. C.	Ottumwa
Rogers, L. E.	Ottumwa
Rogers, H. O.	Ottumwa

## WARREN COUNTY.

Hunsicker, C. L.	Indianola
Story, W. H.	Indianola
Mullican, L. A.	Indianola
Scroggs, R. E.	Indianola
Carpenter, L. D.	Indianola
Coon, L. B.	New Virginia

## WASHINGTON COUNTY.

Godlove, Geo.	Riverside
Godlove, L. L.	Wellman
McIntosh, W. S.	Wellman
Irwin, J. N.	Brighton
Spessard, E. W.	Ainsworth
Terry, W. M.	Washington
Crooks, W. B.	Washington
Thomas, C. L.	Washington
Marie, J. A.	Washington
Sexton, J. O.	Washington
Dewey, D. J.	Washington
McConaughey, E. M.	Washington

## WAYNE COUNTY.

Bronson, A. E.	Seymour
Wickham, G. C.	Seymour
Engle, H. S.	Lineville
Read, W. M.	Allerton
McClannahan, W. P.	Corydon
Silvernall, P. D.	Corydon
Warder, L. E.	Corydon
Culmsee, C. F.	Humeston

## WEBSTER COUNTY.

Goodenough, G. D.	Gowrie
Stauffer, E. T.	Gowrie
Bronson, E. T.	Gowrie
Anderson, M. F.	Dayton
Chinburg, S. I.	Dayton
Stephens, C. M.	Lehigh
Smith R. B.	Harcourt
Bruner, Grant	Fort Dodge
Clark, G. W.	Fort Dodge
Decereaux, T. E.	Fort Dodge
Dorf, P. P.	Fort Dodge
Fuermann, F. W.	Fort Dodge
Hagshawont, J. W.	Fort Dodge

Higby, F. M.	Fort Dodge
Jankins, W. G.	Fort Dodge
Kennedy, E. F.	Fort Dodge
Money, G. C.	Fort Dodge
Tilden, J. F.	Fort Dodge

## WINNEBAGO COUNTY.

Derivan, H. B.	Forest City
McKay, W. H.	Forest City
Nixon, H.	Forest City
Smesrude, Eric	Buffalo Center
Leslie, F. C.	Lake Mills
Colby, J. E.	Lake Mills
Colby, F. J.	Lake Mills
Heiple, H. H.	Thompson
McCarvey, L. E.	Leland

## WINNEBISH COUNTY.

Topliff, C. L.	Decorah
Conover, F. W.	Decorah
Hutchinson, T. C.	Decorah
Toye, W. R.	Decorah
Nagelsacker, O. B.	Decorah
Anderson, A. G.	Decorah
Conover, J. F.	Calmar
Niles, G. H.	Ossian

## WOODBURY COUNTY.

Morrow, B. A.	Sioux City
Hatsch, S. C.	Sioux City
Farley, G. E.	Sioux City
Johnson, S. K.	Sioux City
Gould, C. F.	Sioux City
Kellogg, H. H.	Sioux City
Kellogg, R. D.	Sioux City
Harstad, Oliver	Sioux City
Knott, Frederick	Sioux City
Mahood, L. M.	Sioux City
McCartney, E. F.	Sioux City
Meis, H. J.	Sioux City
McElwain, P. W.	Sioux City
Lanning, G. R.	Sioux City
Miller, R. W.	Sioux City
Miller, R. E.	Sioux City
Mohan, J. C.	Sioux City
Rederich, A. J.	Sioux City
DeWalt, J. E.	Sioux City
Rose, T. A.	Sioux City
Solvsberg, Arthur	Sioux City
Straub, E. S.	Sioux City



Frey, J. A. ....	Sioux City
Van Dyke, J. W. ....	Sioux City
Wasson, A. S. ....	Sioux City
Robinson, F. W. ....	Sioux City
Westwood, C. E. ....	Sioux City
Westwood, C. E. ....	Sioux City
White, H. P. ....	Sioux City
Currier, G. R. ....	Sioux City
Parmley, F. F. ....	Sioux City
Rinker, J. L. ....	Sioux City
Mason, C. J. ....	Anthon
Cook, O. I. ....	Correctionville
Burris, G. H. ....	Correctionville
Randolph, H. F. ....	Correctionville
Crain, L. F. ....	Correctionville
Bowers, C. K. ....	Moville
Lacy, C. B. ....	Sloan

## WORTH COUNTY.

Gibbs, H. E. ....	Kensett
Pangburn, S. A. ....	Northwood
Rice, S. K. ....	Northwood

## WRIGHT COUNTY.

Goodsell, E. H. ....	Belmond
Gowdy, H. L. ....	Belmond
Dunlap, Frank ....	Clarion
Lister, C. S. ....	Clarion
Roosevelt, Theo. ....	Clarion
Lotts, E. G. ....	Dows
Schaff, W. E. ....	Dows
Vaughn, Geo. A. ....	Eagle Grove
McConnaughey, C. H. ....	Eagle Grove
Williamson, G. B. ....	Eagle Grove
Wallace, T. B. ....	Goldfield

## TWENTY-FIRST ANNUAL REPORT

OF THE

## State Dairy Commissioner

TO THE

GOVERNOR OF THE STATE OF IOWA

FOR THE YEAR 1907

H. R. WRIGHT

STATE DAIRY COMMISSIONER

PRINTED BY ORDER OF THE GENERAL ASSEMBLY

DES MOINES:  
EMORY H. ENGLISH, STATE PRINTER.  
1907

LETTER OF TRANSMITTAL.

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*To His Excellency, ALBERT B. CUMMINS, Governor of Iowa:*

SIR—In compliance with the law, I have the honor to submit herewith the Twenty-first Annual Report of the Food and Dairy Commissioner.

Very Respectfully,

H. R. WRIGHT,  
Food and Dairy Commissioner.

DES MOINES, November 5, 1907.

EXPENSES OF DAIRY DEPARTMENT OF OFFICE OF FOOD AND DAIRY  
COMMISSIONER FOR THE YEAR ENDING NOVEMBER 1, 1907.

Commissioner's salary.....	\$2,000.00	
Commissioner's expense.....	307.49	\$2,307.49
Deputy's salary.....	\$1,266.64	
Deputy's expense.....	33.19	1,299.83
Assistant Dairy Commissioner's salary.....	\$1,266.64	
Assistant Dairy Commissioner's expense.....	895.79	2,162.43
Assistant Dairy Commissioner's salary.....	\$1,266.64	
Assistant Dairy Commissioner's expense.....	924.84	2,191.48
Clerk hire (Food and Dairy).....	\$ 900.00	
Clerk hire (Food and Dairy) four months.....	333.32	1,233.32
Milk agents' fees.....	\$1,965.00	
Milk agents' expense.....	132.05	
Milk agents' special work.....	41.55	2,138.60
Legal expenses.....		10.00
Analysis.....		40.00
Office expenses.....		142.74
Express, freight and cartage.....		156.19
Telegraph and telephone.....		84.69
		\$11,766.77
Less salaries which are not paid from specific appro- piation.....		7,023.24
		\$ 4,733.53

The amount appropriated by the 32nd General Assembly for the Dairy Department for the period ending June 30, 1909, was \$11,000. Of this amount, there has been expended \$1,576.37 for the period July 1, 1907, to November 1, 1907.

## REPORT OF THE COMMISSIONERS

### CONDITIONS OF THE DAIRY INDUSTRY.

There have been no extraordinary changes in the dairy and creamery conditions in Iowa during the last twelve months, other than might easily have been forecasted a year ago. The change from the whole-milk system to the hand and separator and gathered cream system has continued to a marked degree and the patronage of the so-called centralizing creameries has increased in the aggregate. The strife between centralization and the system of local co-operative creameries has become more intense. As heretofore pointed out, nearly one-half of the area of this state is without local creameries, and the farmers in those sections must of necessity patronize the central plants. There is no point in Iowa more than seventy miles by rail from at least two central plants, and considerable quantities of cream are shipped out of the state to Minneapolis, Chicago, Omaha and St. Joseph, Mo. Considerable quantities are shipped into the state from northern Missouri, and from South Dakota and northeastern Nebraska. The movement of cream on passenger trains in this state has become a matter of very great moment both to the railroads and to the larger creameries.

The combined efforts of the dairy forces, of the college, of this department, of the Farmers' Institutes of the state, and of the creameries themselves, have in the last several years very greatly improved existing conditions. The change from the whole-milk to the gathered cream system resulted disastrously to the quality and value of butter made, but gradually the quality has become better and the last year has seen a considerable improvement—partly because of legislation, but largely because of the efforts of the creameries themselves and still more for the reason that the shipment of cream long distances has been lessened in this state to a very marked degree. A continued improvement in the character of dairy buildings, machinery and surroundings is noted to a greater degree each year.

## THE WORK OF ASSISTANT DAIRY COMMISSIONERS.

The work of the assistant dairy commissioners during the past twelve months has been along lines of sanitation, and of investigating the conditions in relation to the policies of the various creameries as affecting their profits or losses. Some astonishing things have been discovered in relation to the overrun. One of them is, that very few creameries actually know what their overrun is. The books of various creameries show an overrun all the way from nothing at all to 30 per cent, and the butter shows an overrun from 10 to 25 per cent or more. It is quite evident that a difference of 5 per cent in the overrun of the average creamery, whose business is nearly \$40,000, amounts to a very considerable sum of money and the efforts of this department have been to insist upon it that the buttermaker and secretary know actually what the overrun is, that it should be as high a figure as is consistent with honesty and safety under the laws and that it should be a real overrun and not an apparent one secured by low testing, or other means not legitimate. The work of the assistant commissioners is suggested more at length in the discussions following.

## OLEOMARGARINE.

As suggested in report of last year manufacturers of oleomargarine are more than ever pushing the sale of the uncolored product on its merits. While there are still innumerable instances where oleomargarine is sold or furnished to the consumer as butter, it is true that a very large number of retail dealers are attempting to sell oleomargarine for what it is, and in strict compliance with the law. The statistics given below show considerable increase in the manufacture of oleomargarine for the year ending June 30, 1907.

The following table shows the production of oleomargarine in the United States for the last six years: The year ends in each case June 30th.

1902 .....	126,316,472
1903 .....	71,804,102
1904 .....	48,071,480
1905 .....	49,880,982
1906 .....	53,146,659
1907 .....	68,988,639

The prevailing high price of butter for the last eighteen months has been a great factor in this increase, and the fact must be recognized that when butter retails at from thirty to thirty-five cents a pound the legitimate demand for oleomargarine is necessarily increased. This is particularly evidenced at the present writing (Nov. 1, 1907) by the increased number of retail dealers' licenses issued in this state.

The best argument at the command of the dealer in oleomargarine is the presence on the market of butter of poor quality. The next best argument is the presence of too many so-called pound bricks of butter actually weighing an ounce or more short in weight. The dealer in butter who sells a product of poor quality or a short weight package is the greatest enemy that the butter industry has at the present time. His practices besides being dishonest make possible too often successful competition by the dealer in oleomargarine.

Successful prosecutions for violation of the oleomargarine law have been undertaken at Centerville, Burlington and Waterloo, and one unsuccessful prosecution at Ottumwa.

## SANITATION.

Section 2522 of the Code provides: "Every person or corporation, or the employe of such person or corporation, who operates a creamery, cheese or condensed milk factory, or re-works or packs butter, shall maintain his premises and utensils in a clean and hygienic condition. \* \* \* Whoever shall violate any provision of this section shall be punished by a fine of not less than twenty-five nor more than one hundred dollars, or by imprisonment in the county jail for not more than thirty days." Under this section, fines have been inflicted on one buttermaker and upon the secretary of another creamery. A careful reading of the above quoted statute shows that the responsibility for cleanliness in the creamery rests equally upon the buttermaker and his helpers, and the secretary, or manager, or proprietor. The assis-

tant commissioners have done a great deal of effective work among the creameries by insisting in a great many cases upon a radical change of conditions on pain of prosecution, and this policy of the department will be further carried out in the future. There is never any excuse for unsanitary conditions in a creamery, and such conditions are the more inexcusable under present prosperous business conditions.

The law above quoted was intended to insure the consumer of Iowa butter that it is made in a cleanly place. A good many of our creameries were built a number of years ago and ought now to be replaced with new and more substantial and permanent buildings. A very large number of creameries have been this year replaced with buildings composed of buildings made with brick or cement, and the tendency towards better buildings is more marked every year.

There are two things absolutely essential to the highest degree of cleanliness and sanitation in every creamery. They are: first, a cement floor; second, proper drainage. Unfortunately, a great many creameries are so located that there is not sufficient fall to permit of proper drainage. Some of our creameries under such conditions have put in a septic tank and the results have been very successful. This department will be glad to furnish information and plans for such a system of caring for the drainage on request from officers of any creamery.

#### TESTING CREAM.

Innumerable complaints come to this department concerning the sampling and testing of cream by cream haulers, cream purchasing agents, the creameries themselves and nearly all of these complaints allege that the inaccuracies arise either from the desire to cheat the seller of cream either on weight or on test, or a desire to win away the patrons of a creamery by giving higher tests or higher prices than the facts or conditions warrant. The testing of cream may be, and usually is, as certainly correct as the weighing of it, but carelessness in sampling, inaccuracy in weighing the sample for the test, too high temperature of fat column when the test is read, and inaccurate measurement of the fat column, all lead to wrong results. The carelessness exhibited by a good many users of the Babcock tests is little short of actual criminality. Unfor-

tunately, it is impossible under our present statute to convict the tester for such carelessness in the test. It is necessary to show that the inaccurate results arise from actual intention to deceive or fraud, and in most cases it is almost impossible to bring any positive, affirmative evidence of such intention, even though the results are clearly shown as they would be if such criminal intention were actually present. The dairy law requires the operator of the test to "produce correct measurements of butterfat." It also puts upon the operator "the burden of establishing the use of reliable tests and the results therefrom." This is another way of saying that if the patron sues the creamery man for shortage in tests and payment, the burden of proof is upon the operator of the test to show that the results arrived at were correct. Unfortunately, the amounts involved are always so small that the expense of a suit prohibits bringing it.

Cream is the one product which the farmer sells of which he does not know the actual value with very close approximation. His other products, whether sold by weight or number, are such that he knows with very close accuracy what the weight or count should be, but usually when he sells his cream he not only doesn't know the weight of the cream but is unable to ascertain the test even approximately, and he usually permits the buyer to fix the price. There are two ways in which he can protect himself. One is to learn how the sample must be taken in order to be accurate, and then insist that the sample shall be taken and the test made and read in his presence; the other is to secure a test machine and other necessary apparatus and chemicals to make the test and then weigh, sample and test all his cream before the same is sold, so that he will know accurately how many pounds of butterfat is delivered.

There have been serious suggestions that proper legislation be had and system devised for examination and license for users of the Babcock test. A part of the system would necessarily be authority lodged in some proper person for revocation of the license when it is shown that tests arrived at were not accurate. Whether such arbitrary regulation should be made is a question for consideration for dairy and cream people before the meeting of the legislature in 1909.

### PURCHASE OR SALE OF UNWHOLESOME MILK OR CREAM.

(From Chapter 10, Title 24, Code as Amended.)

Section 4989. Sale of impure or skimmed milk—skimmed milk cheese—labeling—purchase of unwholesome milk or cream. If any person shall sell, exchange or expose for sale or exchange or deliver or bring to another, for domestic or potable use, or to be converted into any product of human food, any unclean, impure, unhealthy, adulterated, unwholesome or skimmed milk, or milk from which has been held back what is commonly known as strippings, or milk taken from an animal having disease, sickness, ulcers, abscess or running sore, or which has been taken from the animal within fifteen days before or five days after parturition; or if any person shall purchase, to be converted into any product of human food, any unclean, unhealthful, adulterated or unwholesome milk or cream, or shall manufacture any such milk or cream into any product of human food, \* \* \* he shall be fined not less than twenty-five nor more than one hundred dollars, and be liable for double damages to the person or persons upon whom such frauds shall be committed. \* \* \*

Attention is called to the fact that the above law provides the same penalty for the purchase by manufacturers of butter as for the sale of unwholesome milk or cream. Six successful prosecutions under this statute have been undertaken during the last year. The larger receivers of cream report that conditions have very greatly improved within the last twelve months. They have uniformly taken advantage of the law to press upon the shipper the absolute necessity of sending in cream that is fit for making into butter and the net results have been the improvement mentioned.

### WATER IN BUTTER.

The increased activity of internal revenue officials among creameries has been one of the incidents of the last season. The presence of more than the legal maximum of 16 per cent of water in butter is so flagrant an offense, and the sale of such butter such an in-

excusable blunder, that one can not sympathize much with the creamery manager or creamery buttermaker who gets into the net of the internal revenue official. Despite the efforts of the dairy papers, the officers of this department, and others interested in the welfare of the industry, the buttermaker who actually tests every churning of his butter for water is the exception and not the rule; and the manager who insists that his buttermaker shall so test every churning on pain of discharge has not been discovered.

It may be of service to have it stated here that a number of Iowa creameries have been assessed from \$250 to much greater amounts, which they have paid; that an official of another state paid \$1,600 for sale of butter containing too much water; and that practically all makes of butter are being examined in the markets by internal revenue officials to see if they violate the law; that if the make of a creamery shows more than 16 per cent of water at any time it is almost certain to be discovered and the penalty inflicted upon the creamery management; that the reason why these cases and penalties are not more exploited in the dairy papers is because the penalties are inflicted by the internal revenue officials in the way of license fees required and payments of tax at the rate of ten cents a pound upon the butter seized, and there is no publicity as there would be if the creamery manager were prosecuted and fined in open court. However, those who imagine that the internal revenue officials are not active in the enforcement of this law are wholly deceived as to the facts. The law is a proper one and the department having its enforcement is competent and energetic.

The effect of recent agitation for a proper amount of overrun in creameries, has resulted in too many cases in efforts on the part of the buttermaker to increase the amount of water present and that without taking any pains to know how much water is present in the butter when it is shipped to market. Assistant dairy commissioners have tested butter at various creameries and have found butter containing all the way from 7 per cent to 28 per cent of water, and in every case where abnormal quantities of water have been discovered, the buttermaker was wholly ignorant of the fact and asserted that his overrun as shown by the secretary's books was only about what it ought to be. Such condition of ignorance will certainly result in the payment of penalties for violation of the national law relating to water in butter.

There are three forms of apparatus now sold by all creamery supply firms for determining the amount of water in butter—the

Gray's moisture test, the Irish test and the butter test bottle. None of these pieces of apparatus is found to give absolutely accurate results in the hands of buttermakers generally, but they do give results sufficiently accurate so that the buttermaker can avoid loss in the way of small overrun on the one hand, and penalties for manufacture of butter adulterated with water on the other.

The creamery manager should furnish the buttermaker with proper apparatus for testing his butter, and should then insist, on pain of discharge, that every churning of butter be tested for water content before it leaves the factory. The business of the average creamery in this state amounts to about \$10 or \$12 a day, or \$30,000 or \$40,000 a year. A loss of even one per cent makes a considerable sum of money. The detection of a single shipment of butter containing too much moisture may cost the creamery a very large sum of money, and to neglect precautions against possibilities of this kind amounts to a betrayal of the interests of the patrons of the creamery.

#### COAL TAR COLORS IN BUTTER.

For fifteen or twenty years coal tar colors have been used to a very large extent in the manufacture of butter. There has always been more or less of a prejudice existing in the minds of a good many people against the use of these colors in any food product. There has never been a prosecution for sale of butter containing one of these products in any state so far as known to this department, and there is not a particle of evidence that butter so colored ever did injure the consumer or that it could injure him. However, it is perfectly well known that certain coal tar colors used in other food products were of a slightly poisonous nature, and one or two of the states for the sake of consistency have by law prohibited the use of coal tar colors in every food product. Under authority of the national food law the Board of Food and Drug Inspection on July 13, 1907, in Food Inspection Decision 76, says: "The use in food for any purpose of any mineral dye or any coal-tar dye, except those coal-tar dyes hereinafter listed, will be grounds for prosecution. Pending further investigations now under way and the announcement thereof, the coal-tar dyes hereinafter named, made specifically for use in foods, may be used in foods." The

colors named as permitted in food products are none of them colors which have been used or probably would be used in a butter color, so that the practical effect of this decision is to prohibit the use of coal tar colors in butter. The national law is a law relating to inter-state commerce, and it applies to practically all the butter manufactured in creameries in this state for the reason that ninety per cent of it is shipped to points outside the state of Iowa. It is therefore, quite apparent that coal tar colors in butter can no longer be used without fear of prosecution by the Board of Food and Drug Inspection at Washington.

There is nothing in the state food or dairy law and nothing in the national law to prevent the coloring of butter with harmless color, and buttermakers and creamerymen should secure from manufacturers of color offered to them a guaranty not only that the color itself is legally sold under the food law, but that it is such a color as may be legally used in the butter to be made.

#### TUBERCULOSIS.

Reference is again made to law requiring the pasteurization of skimmed milk before same is returned by the creamery to the patrons.

The law reads as follows:

*Be it enacted by the General Assembly of the State of Iowa:*

SECTION 1. That every owner, manager, or operator of a creamery shall before delivering to any person any skimmed milk cause the same to be pasteurized at a temperature of at least one hundred and eighty-five (185) degrees Fahrenheit.

SEC. 2. Whoever violates the provision of this act shall, upon conviction, be liable to a fine of not less than twenty-five dollars nor more than one hundred dollars."

The following is a quotation from Bulletin No. 92 Iowa Experiment Station:

"With the probable exception of hog cholera, there is no disease more dreaded among swine growers than tuberculosis. The disease is of frequent occurrence and according to statistics the numbers of animals so affected is annually on the increase, particularly in dairy sections. Packers are most rigid in their inspections in an attempt to protect the pork consuming public, even going so far as

not to buy hogs from localities known to have had a considerable number of swine affected with the disease. The carcass of an infected animal is utterly unfit for human food. Compared with this phase of the subject the thrift of the hogs is unimportant to say the least, as this only reduces the feeders' profit. It is the health of the public that must be guarded. A knowledge of the source of infection and of the extent to which the disease is rapidly spreading is, therefore, of primary importance to those engaged in checking its advance.

"It is known that the same bacilli which produces tuberculosis in cattle also produces the disease in hogs. The exact extent to which cattle are responsible for its presence among hogs is, however, not known, Direct hereditary transmission among swine rarely ever occurs according to European investigators, who are unanimous in the theory that the disease is caused by infection of dairy products containing the tubercle bacilli. Instances are common where droves of hogs, which at some time in their lives had been fed whole milk, skim milk or buttermilk, when slaughtered, showed a large proportion of the number to be infected with tuberculosis. This is proved by the fact that tuberculosis prevails mostly where the dairy industry is the most extensive, namely, northern Germany and Denmark. It is a difficult matter to find hogs raised under common farm conditions that have not been at some time in their lives fed cow's milk. It is thus apparent that the consensus of opinion has some foundation when it is generally believed that cow's milk is responsible for the rapid spread of this disease to the swine herds of the country.

"The subjecting of milk intended for hog feeding to 176 degrees of heat, or 'pasteurization,' to kill any tubercle bacilli that might be present is now a common practice on the modern dairy farm and at the leading creameries. There is a desire with many to know whether there is any practical necessity of this pasteurization in this state. The only answer to the question is the results of actual experimental investigations into the transmissibility of the disease to hogs from cow's milk."

An experiment in feeding pasteurized milk to two separate lots of pigs and milk infected with tuberculosis germs to two other lots was carried on for a period of about eight months. The pigs at the beginning were free from tuberculosis. Of the twenty pigs fed infected milk every one was found upon slaughter to have acquired disease of tuberculosis, while of the twenty pigs fed on pasteurized milk only two showed slight traces of the disease.

The swine industry in this state is of such great importance that every effort ought to be made to protect it from loss by disease. The pasteurization of skimmed milk at the creamery, as shown by the foregoing experiment, is effective in preventing the spread of tuberculosis among swine. For a creamery to refuse to obey the law requiring such pasteurization is to disregard the interests of the whole community, and those of the patrons of the creamery in particular. A considerable number of prosecutions has been undertaken in cases where the creameries have not been pasteurizing the skimmed milk. The matter is of such very great importance that this department will continue to make prosecutions for failure to comply with this statute wherever it is possible to secure evidence of such violation.

During the year there have been fines inflicted for violation of the statute in relation to the pasteurization of skimmed milk upon creamery managers at Ackley, Harlan, Bristow, Ladora and Ottoson.

#### BUTTER PRICES.

Below is given a table showing New York prices on butter of the highest grade by months for the last eleven years. The average price for 1896 was about the same as that for 1897 given below, and these two years mark the lowest prices for butter in the last twenty years.

TABLE NO. 1.  
SHOWING AVERAGE MONTHLY PRICE OF FANCY WESTERN CREAMERY BUTTER IN NEW YORK MARKET.

Month	Twelve months ending Nov. 1, 1887	Twelve months ending Nov. 1, 1888	Twelve months ending Nov. 1, 1889	Twelve months ending Nov. 1, 1890	Twelve months ending Nov. 1, 1891	Twelve months ending Nov. 1, 1892	Twelve months ending Nov. 1, 1893	Twelve months ending Nov. 1, 1894	Twelve months ending Nov. 1, 1895	Twelve months ending Nov. 1, 1896	Twelve months ending Nov. 1, 1897
November.....	\$ .2112	\$ .2325	\$ .2387	\$ .2900	\$ .2487	\$ .2412	\$ .2050	\$ .2317	\$ .2481	\$ .2390	\$ .2702
December.....	.2250	.2290	.2100	.2700	.2540	.2510	.2090	.2425	.2658	.2480	.3164
January.....	.1900	.2040	.1975	.2650	.2390	.2425	.2700	.2770	.2310	.2650	.2890
February.....	.2060	.2042	.2100	.2500	.2350	.2320	.2900	.2517	.2318	.2700	.2354
March.....	.1900	.1927	.2075	.2550	.2215	.2340	.2300	.2450	.2307	.2700	.2001
April.....	.1850	.1860	.1820	.1900	.2000	.2025	.2725	.2384	.2308	.2128	.2092
May.....	.1830	.1580	.1700	.2012	.1900	.2375	.2200	.2015	.2371	.2017	.2501
June.....	.1500	.1627	.1681	.1560	.1625	.2195	.2160	.1900	.2049	.2020	.2090
July.....	.1500	.1627	.1635	.1900	.1900	.2121	.2012	.1707	.2050	.2002	.2481
August.....	.1675	.1860	.2000	.2100	.2050	.1900	.1940	.1795	.2111	.2257	.2488
September.....	.1900	.2005	.2022	.2150	.2110	.2170	.2075	.1947	.2008	.2402	.2781
October.....	.2290	.2285	.2400	.2100	.2300	.2305	.2100	.2060	.2184	.2011	.2015
Aver. val. per lb. per year..	\$.1886	\$.1971	\$.2005	\$.2275	\$.2165	\$.2410	\$.2417	\$.2140	\$.2487	\$.2375	\$.2396



## CITY MILK INSPECTION.

The growth of the city milk inspection in this state is indicated by the following table showing the number of permits for milk dealers issued in the years from 1896 to 1907. The years end in every case on the 4th of July:

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
596	620	674	676	714	754	821	783	780	827	896	1,009

Cities.	Pop. 1905.	Inspectors.
Burlington	25,318	Oscar C. Hoerr
Cedar Rapids	28,739	Chas. B. Thomas
Clinton	22,750	Dr. J. W. Griffith
Council Bluffs	25,821	H. A. Lennox
Davenport	39,797	H. J. High
Des Moines	75,626	J. P. Morey
Dubuque	41,941	Harry Barmlerier
Port Dodge	14,369	D. C. Benjamin
Keokuk	14,634	A. J. Anderson
Marshalltown	12,045	Dr. E. M. Singleton
Muscatine	15,087	Dr. John Tillie
Ottumwa	30,181	E. B. Hill
Sioux City	40,952	J. E. Huffman
Waterloo	18,071	Theo. Peek
	394,737	

The inspection and tests carried on by this department in fourteen cities lead to the belief that there is very little adulteration of milk by skimming or watering, and little adulteration with chemical preservatives or coloring matters. In the city of Des Moines during the summer months, the chemist of this department has analyzed over six hundred samples of milk secured from city milk dealers and not a single case of the use of preservatives has been discovered. Newspaper accounts of extensive adulterations of milk are not warranted by any known facts.

The inspection carried on by this department does not extend to the farms or the cows that produce the milk sold in these cities, and hence does not give any assurance that the milk sold is produced from healthy animals nor that it is handled in a cleanly manner up to the time that it appears for sale to the consumer. Neither the funds nor the authority given this department enable us to carry on any such inspection.

## CENTRALIZATION OF CREAMERIES.

It is impossible to give any inclusive and exclusive definition of the centralized creamery in this state for the reason that the state possesses all the varieties of creameries that exist anywhere. There are in the state ninety plants that answer affirmatively to the question "Do you receive any cream by rail?" It is believed that about half this number actually receive one-fourth or more of their butterfat by rail. Twenty-one of the largest centralizing plants report that they make 24,357,637 pounds of butter. If we include another score of the smaller centralizing plants, they doubtless make one-third of the creamery butter manufactured in this state. Attention is called to the fact that the numbers given in the tables in this report show only the place of manufacture of the butter, and not the place where the cows are kept or the butterfat actually produced.

Another interesting fact shown by a study of the individual creamery reports is that in the smaller local creameries each patron produces about a thousand pounds of butter, while the centralized creameries appear to make from five hundred to seven hundred pounds of butter per patron which they report. The question is asked all creameries, "How many patrons did you have on July 1, 1907?" The patronage of the creamery with fifteen hundred to three thousand patrons is naturally fluctuating, but the number on the books any one day ought to represent about the average number for the year. It is hardly possible that the centralizing creameries particularly attract the small producer, and just why their patrons should produce only half or three-fourths as much as the patrons of the local creameries is a question that this department is unable to answer.

This department is bound to accept as correct the statements made by creamery managers as to the number of patrons and the number of pounds of butter made, for the reason that the necessary records of the creamery are at hand. The number of pounds of butter made by the 21 creameries included in the above paragraph divided by the number of the patrons they reported as being on their books July 1st gives 590 pounds as the average amount of butter produced by each patron. The average for the state is more than a thousand pounds per patron as shown by Table 2 of this

report. This low average per patron and the consequent low apparent production per cow for the state, which appears from an inspection of the same table is occasioned by the extremely low figures given by the central plants, which report about one-third of the butter of the state, but which report one-half the number of patrons and about one-half the cows embraced in the figure given in Table 2. The low production per patron by the centralizers is uniformly low and is about half as much as the production in the best dairy counties. The tables given below are first figures reported by three central plants in different parts of the state; second the statistics compiled in Tables 1 and 2 of this report for the counties indicated

Number of Patrons	Number Pounds of Butter.	Average Pounds
3,300	1,765,689	531
3,590	1,739,019	487
900	465,358	505

County	No. of creameries	No. of patrons	No. of cows	No. of lbs. of butter made	Av. lbs. butter per cow
Buchanan	7	1,373	13,790	1,670,593	114
Chickasaw	10	1,938	15,719	1,859,679	136
Delaware	17	2,223	15,433	2,875,738	196
Fayette	20	2,615	23,870	3,758,493	154
Kossuth	19	1,708	14,396	2,226,327	154
Palo Alto	14	1,317	12,933	1,569,585	123
Winneshiek	13	2,084	21,373	2,422,228	113
Total	99	13,446	118,483	16,812,851	137

Average number of cows per patron	8
Average number pounds of butter per creamery	174,877
Average number pounds of butter per patron	1,212

#### SHIPPING RATES ON CREAM.

More than a year ago, creameries in the northern part of Iowa raised strenuous objections to the extremely low rates on cream which certain railroads were making to Chicago. The net results of these rates, was that the Chicago centralizing plant could get butterfat into Chicago in the shape of cream for less money than the state of Iowa could ship butterfat to the same point after it was made. On representations made by them, in which the dairy com-

missioner joined, these rates to Chicago were raised to rates practically equivalent to rates for like distances obtaining inside the state of Iowa, though not all the railroads joined in the raise of rates. Later an attempt was made by the Beatrice Creamery Company to have rates in Iowa lowered by authority of the Railroad Commission. This effort was opposed by the dairy commissioner and the rates from Iowa have remained the same as they have been for a number of years heretofore.

It is apparent that a large number of producers of cream in this state are, under present conditions, compelled to transport their cream to market from a distance that precludes a possibility of any transportation other than rail transportation. As heretofore suggested, there is no point in Iowa further than seventy miles from two or more centralizing plants, and hence it is apparent at once that the necessity for a low rate for cream shipment does not obtain over greater distance than suggested. Efforts to reduce cream rates have been along the line of reducing the rate for long distances. There is wide-spread movement on the part of the centralized creameries all over the west to maintain as low rates as possible, or to secure lower ones where the tariff equal to the Iowa rates obtains. There is a movement equally wide-spread on the part of railroads to make a higher rate for cream than for milk and thereby to raise rates on shipments of cream for buttermaking purposes, so that the matter is one which has been brought to the attention of the Interstate Commerce Commission and the Railroad Commission in Minnesota, Nebraska, Iowa and Wisconsin, and indeed has got into federal courts on a petition for injunction against raising rates.

Different conditions may exist elsewhere. Iowa conditions do not demand a rate on cream shipments different from rates on other products which naturally go by express. The shipment of cream long distances inevitably causes a loss in quality and value of cream, which loss is inevitably visited upon the seller of that cream. To make a rate of 21 to 22 cents for seventy-five miles and a rate of about 30 cents for two hundred miles is unfair as between two persons, one of whom wishes to ship the shorter distance and the other who wishes to ship the longer distance. To make an extremely low rate for greater distances still gives an advantage which is not shared by the purchaser in any degree, directly or indirectly, if we may argue from experience in this state and elsewhere. The majority of creamery patrons already have a market at their doors

without shipping by rail. The producer of cream who has no such market is entitled to a fair rate on his cream in exactly the same sense that he is entitled to a fair rate on his grain or live stock, but neither he nor the plant to which he ships is entitled to have his product carried free, nor to have it carried at a rate which is out of proportion to fair rates on other products. To so reduce rates upon cream shipments is to enable concerns with large capital and superior business resources to monopolize in large proportion the dairy business and will be disastrous to the dairy business of this state. Dairy people of this state should understand that this is a question which will continue to be agitated and will take such action as seems to them proper as safeguarding the interests of the business as a whole.

TABLE No. III.  
TABLE SHOWING NUMBER OF HAND SEPARATORS, NUMBER OF PATRONS AND NUMBER OF COWS.

County	No. of creameries reporting hand separators	Receive cream by rail	Hand separators reported	No. of creameries reporting patrons and cows	No. of patrons reported	No. of cows reported
Adair	5	1	1,008	8	1,189	8,740
Adams	3		398	3	312	2,472
Allamore	3		1,441	3	1,846	15,074
Appanoose						
Audubon	7		1,069	8	1,831	11,800
Benton	4	1	488	4	533	3,000
Black Hawk	10	1	890	15	1,720	15,458
Boone	1		59	1	59	399
Bremer	4		110	23	1,780	19,884
Buchanan	6		870	7	1,173	13,700
Buena Vista	6		1,068	6	1,130	10,182
Butler	12	1	555	19	2,070	18,459
Calhoun	4	2	2,759	4	3,034	39,000
Carroll	5	2	1,877	4	1,743	15,322
Cass	2	1	192	3	192	1,520
Cedar	4		105	4	271	2,247
Cerro Gordo	4	3	1,133	4	1,336	10,777
Cherokee	2		140	3	390	3,800
Chickasaw	7		495	10	1,030	13,719
Clarke						
Clay	7	1	740	7	900	3,258
Clayton	10	1	1,758	11	2,373	21,538
Clinton	6	3	720	6	614	3,100
Crawford	1	1	1,500	1	1,241	10,000
Dallas	4	2	533	4	913	4,100
Davis						
Decatur	19	1	1,080	17	2,223	18,433
Delaware						
Des Moines	5	1	526	6	613	5,105
Dickinson	15	2	2,080	20	2,327	20,045
Dubuque	6	1	327	7	485	4,229
Emmet	7	1	335	29	2,015	22,370
Escholtz	5	1	373	5	795	5,621
Floyd	4	1	251	5	1,179	8,805
Franklin						
Fremont	1		15	1	56	500
Greene	7	2	639	8	1,060	8,638
Grundy	6	1	336	1	1,008	8,406
Guthrie	4	2	492	3	555	3,700
Hamilton	7	2	897	7	907	7,680
Hancock	11	2	1,128	11	1,513	12,494
Hardin						
Harrison						
Henry	8		367	6	335	3,000
Howard	5	1	499	8	727	6,445
Humboldt	1	1	386	1	395	2,500
Ida	7		397	7	613	4,711
Iowa	11	1	1,594	11	1,743	13,565
Jackson	3		93	2	162	1,195
Jasper	3	1	396	3	1,457	1,940
Jefferson						
Johnson						
Jones	11	1	1,504	11	2,113	19,043
Keokuk	15		1,143	19	1,708	14,965
Kossuth	1	1	1,500	1	1,750	12,250
Lee	12	1	1,770	12	2,015	24,592
Linn						
Louisa						
Lucas						

TABLE No. III—CONTINUED.

County	No. of creameries and separators	Receive cream by rail	Hand separators reported	No. of associations reporting patrons and cows	No. of patrons reported	No. of cows reported
Lyon	1	1	50	2	575	3,800
Madison	2	2	350	2	720	4,000
Mahaska	1	1	450	1	450	2,000
Marion	2	1	321	3	545	3,880
Mills	10		650	10	1,808	13,865
Mitchell	1	1	141	1	147	950
Monona	1	1	90	1	130	788
Monroe	1					
Montgomery	1		45	1	135	800
Muscataine	5	2	350	4	649	6,000
O'Brien	4	1	405	4	528	3,700
Osceola	1	1	1,750	1	1,900	15,000
Page	12		482	14	1,317	12,333
Palo Alto	3	1	544	4	653	5,725
Plymouth	4	1	489	3	449	3,800
Pocahontas	4	5	6,900	4	5,910	42,250
Polk	1	1	275	1	300	2,500
Pottawattamie	5	3	1,005	5	1,605	10,750
Poweshiek						
Ringgold	3	2	905	3	941	7,000
Sac	2	2	580	2	653	4,840
Scott	6	1	680	5	591	4,776
Shelby	5	2	1,325	6	1,582	12,385
Sioux	9	1	910	9	1,038	7,372
Story	3	1	550	3	525	2,300
Tama	2	2	1,598	2	1,598	15,000
Taylor	2	1	2,075	2	2,150	17,400
Union						
Van Buren	2	1	1,214	2	1,184	10,600
Wapello	1					
Warren	1	1	100	1	100	800
Washington	1	1	1,700	1	1,700	10,000
Wayne	1	1	300	1	300	8,000
Webster	4		536	6	3,180	11,500
Winneshiek	11	1	1,773	12	2,384	21,372
Woodbury	1	2	6,900	1	6,900	40,000
Worth	7		534	7	705	5,110
Wright	6	1	854	6	857	6,255
Total	421	90	74,900	491	101,011	780,779

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

County	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of butter made	Pounds sold to patrons	Pounds sold in Iowa
Adair	5	1,277,967	2,781,215	1,041,147	20,050	19,580
Adams	3	500,183	804,456	306,435	7,117	3,192
Allamakee	3		7,092,104	1,911,747	24,304	40,333
Appanoose						
Audubon	5	15,419,847	8,104,545	1,637,933	65,592	16,530
Benton	4	1,165,498	1,731,133	518,946	2,385	7,060
Black Hawk	15	37,658,478	3,214,634	3,144,330	149,470	377,670
Boone	1	338,320	49,327	37,904	1,354	2,850
Bremer	24	70,011,567	633,457	3,101,534	248,109	97,509
Buchanan	7	31,473,939	353,744	1,570,563	129,038	69,354
Buena Vista	9	143,167	3,080,130	1,067,995	15,072	3,812
Butler	19	40,334,333	3,236,658	2,308,382	158,436	87,710
Calhoun	4	2,394,004	4,168,738	1,387,433	5,360	22,173
Carroll	5	18,900	3,960,300	1,450,580	7,130	6,580
Cass	2		653,929	210,034	539	952
Cedar	4	682,664	789,583	379,610	6,054	33,151
Cerro Gordo	5	1,158,800	4,389,613	1,148,410	9,053	78,949
Cherokee	3	5,300	328,000	130,000	6,000	3,000
Chickasaw	10	24,335,101	3,544,612	1,859,479	137,374	24,680
Clarke						
Clay	7	5,860,170	3,135,751	851,855	43,475	11,801
Clayton	11	15,015,323	7,400,800	2,694,535	65,673	35,757
Clinton	7	9,831,141	1,150,310	418,830	14,300	2,404
Crawford	1		1,767,372	774,354		
Dallas	6	1,487,025	1,064,063	948,629	12,584	45,631
Davis						
Decatur						
Delaware	17	35,405,198	4,805,915	2,875,738	200,451	123,407
Des Moines						
Dickinson	6	797,998	1,931,339	601,747	23,887	15,311
Dubuque	19	18,897,113	5,880,001	2,415,478	79,765	200,418
Emmet	7	6,622,133	874,387	575,907	45,368	2,710
Fayette	20	61,327,805	3,001,331	3,758,439	261,474	144,080
Floyd	5	1,073,333	2,739,250	795,327	58,301	16,944
Franklin	5	4,709,391	2,280,170	887,408	23,671	55,420
Fremont						
Greene	1	597,333	10,397	13,124	522	
Grundy	3	16,365,333	3,600,335	1,472,535	77,711	64,303
Guthrie	4	4,535,077	2,711,668	1,051,837	31,447	24,478
Hamilton	4	4,706,430	1,058,208	557,215	8,284	1,022
Hancock	7	3,904,459	3,922,945	908,425	20,845	9,430
Hardin	11	5,997,377	4,172,113	1,583,730	50,608	30,428
Harrison						
Henry	6	5,431,513	2,277,470	787,094	34,856	12,556
Howard	8	3,195,297	1,947,578	692,673	45,904	10,703
Humboldt						
Ia	1	98,000	849,739	326,714	1,470	
Iowa	7	8,189,463	361,325	609,084	28,561	160,360
Jackson	11	6,714,977	4,245,470	1,475,839	31,980	25,248
Jasper	2	1,930,579	392,411	182,090	9,850	44,673
Jefferson	3	847,948	1,466,524	362,496	10,950	42,104
Johnson						
Jones	11	23,341,436	5,867,730	2,860,316	115,502	91,289
Keokuk	20	18,912,437	4,504,152	2,226,227	168,067	106,523
Kossuth	1	200,000	1,440,000			
Lee	13	16,530,392	5,229,835	1,807,290	53,722	363,408
Linn						
Louis						
Lucas						
Lyon	2	1,454,170	1,094,938	414,217	4,000	11,000

County	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of butter made	Pounds sold to patrons	Pounds sold in Iowa
Madison	2		829,008	250,483	43,690	34,028
Mahaska	1		446,000	100,500		15,616
Marion	3	1,728,653	1,412,672	439,678	12,126	120,282
Mills						
Mitchell	10	324,495	6,701,631	1,074,937	73,764	269,297
Monona	1		291,137	98,408	205	117
Monroe	1	601,069		161,372	70,715	14,794
Montgomery						
Muscataine	1		213,577	51,775	1,570	18,700
O'Brien	5	309,708	2,367,228	613,132	11,264	11,262
Osceola	5	309,697	1,354,318	405,168	7,174	4,206
Pago						
Palo Alto	14	24,097,788	1,641,519	1,599,935	165,217	45,911
Plymouth	4	97,006	1,723,547	648,522	12,569	15,956
Pocahontas	4		1,033,179	354,628	9,381	4,135
Polk	4	877,600	17,107,117	4,172,472		983,277
Pottawattamie	1	1,300,000		69,000		69,000
Poweshick	5	378,831	6,795,598	1,204,155	3,600	212,300
Ringgold						
Sac	8	969,147	2,202,023	800,415	28,074	5,320
Scott	3	10,401	743,038	255,537	250	163,220
Shelby	6	2,230,317	1,713,373	522,288	21,203	5,732
Sioux	6		4,399,703	1,743,022	22,216	15,569
Story	3	11,680,529	1,442,832	1,012,259	91,023	39,599
Tama	3	551,575	741,437	242,081	1,842	5,101
Taylor	2		5,300,000	1,383,559	11,000	13,024
Van Buren	2	4,300	3,109,611	981,967	1,698	2,773
Wapello	2	650,658	1,212,442	318,074	5,400	18,179
Warren	1		800,000	22,210		12,210
Washington	1		2,244,320	671,970		12,000
Wayne	1		1,709,000	455,258		
Webster	1		19,673,696	2,114,211	1,490,772	106,453
Winneshiek	12		8,913,000	2,422,022	15,022	15,030
Woodbury	1	4,000,000	15,000,450	6,300,376	4,000	226,000
Worth	7	6,908,770	1,381,733	845,633	54,219	7,284
Wright	6	512,117	8,014,223	819,590	23,011	47,120
Total	503	581,436,800	225,276,278	89,926,082	8,317,848	5,063,625

## CREAMERY BUTTER MANUFACTURED.

In the following table is given the amount of creamery butter made for the respective years. The amounts are partly estimated in the following manner:

The average amount obtained by dividing the total butter by the number of creameries so reporting is multiplied by the total number of churning stations. It has never been possible to get a full and complete report of absolutely all the creameries. In making average mentioned above, the amount made by the large centralizing creameries and the number of them is subtracted before the average is attempted, so that there are no unusual or uncertain factors in the figures given. The make of the centralizing creameries is, however, included in the total.

1897	88,900,000
1898	87,704,214
1899	87,972,470
1900	84,965,062
1901	82,706,944
1902	77,885,696
1903	64,665,970
1904	70,000,000
1905	82,707,588
1906	91,202,354
1907	91,164,363

## COMPARISONS.

	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
Total No. of creameries and skm sta.'s	801	654	947	904	969	919	792	691	655	596	594
Ownership.											
Individual	594	516	591	524	497	377	306	243	206	199	187
Co-operative	349	349	349	364	360	376	350	335	319	319	319
Stock company	37	88	116	108	102	165	155	113	120	86	87
State property	1	1	1	1	1	1	1	1	1	1	1

## RAILROAD BUTTER SHIPMENTS.

The following table shows the number of pounds of butter, net, shipped from each county in the state to points outside the state, which is found by subtracting sixteen per cent of the gross weight as reported by the railroads of the state. This department is under obligations to the freight officials of the different railroads for furnishing us these figures:

TABLE SHOWING NET POUNDS OF BUTTER SHIPPED OUT OF THE STATE, AS REPORTED BY THE RAILROADS, FOR THE YEAR ENDING SEPTEMBER 30, 1907.

Counties	1906	1907	Increase	Decrease
Adair	1,079,890	973,596		106,294
Adams	85,444			85,444
Alamogordo	1,468,626	1,573,193	104,567	
Appanoose	32,707	35,598	2,891	
Audubon	1,188,008	1,124,300		63,708
Benton	738,839	841,756	102,917	
Black Hawk	1,459,132	969,073		490,059
Boone	53,466	115,250	61,784	
Bremer	2,473,678	3,772,412	1,298,734	
Buchanan	3,065,132	1,895,103		1,170,029
Buena Vista	1,321,884	1,128,072		193,792
Butler	2,233,228	1,725,565		507,663
Calhoun	1,531,484	1,400,013		131,471
Carroll	2,020,441	1,883,055		137,386
Cass	280,452	303,879	23,427	
Cedar	250,940	177,723		73,217
Cerro Gordo	884,721	1,183,863	301,102	
Cherokee	612,881	563,939		48,942
Chickasaw	2,468,370	2,066,017		402,353
Clarke	10,907	11,651	744	
Clay	1,218,707	935,814		282,893
Clayton	2,378,350	2,413,363	35,013	
Clinton	1,127,363	1,019,196		108,167
Crawford	1,062,109	942,501		119,608
Dallas	647,434	937,224	289,790	
Davis		548	548	
Decatur	14,406	163		14,243
Delaware	2,740,122	2,799,336	59,214	
Des Moines	250,655	329,284	78,629	
Dickinson	729,338	851,516	122,178	
Dubuque	2,271,330	2,223,196		48,134
Emmet	644,165	771,489	127,324	
Fayette	2,766,949	2,517,736		249,213
Floyd	777,425	761,792		15,633
Franklin	122,854	538,481	415,627	
Fremont		5,716	5,716	
Greene	127,579	89,852		37,727
Grundy	844,955	805,148		39,807
Guthrie	890,143	894,650	4,507	
Hamilton	1,400,883	874,014		526,869
Hancock	888,937	953,934	65,000	
Hardin	1,784,853	1,728,293		56,560
Harrison	36,345	23,738		12,607
Henry	12,458	33,620	21,162	
Howard	890,334	794,768		95,566
Humboldt	657,325	684,712	27,387	
Ida	431,692	277,505		154,187
Iowa	653,054	246,739		406,315
Jackson	1,694,125	1,502,207		191,918
Jasper	87,169	126,772	39,603	
Jefferson	146,734	134,599		12,135
Johnson	43,250	21,679		21,571
Jones	3,731,833	4,639,275	877,442	
Keokuk	194,030	49,305		144,725
Kossuth	2,433,053	1,758,215		674,838
Lee	3,620,395	3,505,313		115,082
Linn	1,734,959	1,607,382		127,577
Louis	14,000	8,217		5,783
Lucas		1,016	1,016	
Lyon		3,501	3,501	
Madison		184,541	184,541	
Mahaska	61,775	135,063	73,288	
Marion	165,538	135,063		30,475
Marshall	387,086	339,076		48,010
Mills	13,440	8,355		5,085
Mitchell	1,620,822	1,673,441	52,619	
Monona	121,506	221,700	100,194	
Monroe	35,884	33,474		2,410
Montgomery				
Muscatine	39,382	29,632		9,750

Counties	1906	1907	Increase	Decrease
O'Brien	702,789	410,898		291,891
Osceola	307,198	312,949	5,751	
PAGE	645,633	644,554		99
Palo Alto	2,303,861	1,147,523		1,156,338
Plymouth	963,641	716,375		247,266
Pocahontas	625,291	450,291		175,000
Polk	5,117,540	4,790,394		327,146
Pottawattamie	831,331	5,478		825,853
Poweshiek	85,262	974,375	889,113	
Ringgold	109,685	499		109,186
Sac	939,510	688,747		250,763
Scott	397,452	1,577,194	1,179,742	
Shelby	874,671	894,879	20,208	
Sioux	1,702,771	1,846,878	144,107	
Tama	385,111	354,765		30,346
Story	850,093	1,037,671	187,578	
Taylor	1,859,519	1,394,194		465,325
Union	1,883,396	1,235,286		648,110
Van Buren	27,630	15,200		12,430
Wapello	408,224	635,892	227,668	
Warren	2,968	845		2,123
Washington	41,295	66,929	25,634	
Wayne	993,728	929,748		63,980
Webster	643,090	656,631	13,541	
Winnebago	1,429,005	1,343,908		85,097
Winneshek	1,337,822	3,895,337	2,557,515	
Woodbury	5,342,346	5,995,455	653,109	
Worth	768,190	1,325,280	557,090	
Wright	1,185,815	1,119,957		65,858
Total	98,184,697	92,174,770	5,813,422	11,823,253

Net decrease, 6,009,831 pounds.

COUNTIES SHIPPING MORE THAN 1,000,000 POUNDS, NET, OF BUTTER  
IN THE YEAR ENDING SEPTEMBER 30, 1907.

1907.	Counties.	1906.
5,065,405	Woodbury	6,342,245
4,790,894	Folk	5,117,540
4,030,275	Jones	3,752,833
3,503,513	Lee	3,061,265
2,709,396	Delaware	2,740,122
2,772,415	Bremer	2,473,678
2,517,736	Payette	2,766,949
2,415,368	Clayton	2,373,250
2,222,126	Dubuque	2,271,330
2,056,017	Chickasaw	2,463,370
1,888,065	Carroll	2,029,441
1,896,103	Buchanan	3,098,122
1,896,657	Winnesbick	1,967,222
1,845,878	Sioux	1,762,771
1,728,215	Kossuth	2,423,053
1,723,293	Hardin	1,724,853
1,723,505	Butler	2,233,223
1,673,441	Mitchell	1,529,232
1,607,582	Linn	1,734,059
1,592,207	Jackson	1,594,125
1,577,104	Scott	207,432
1,572,138	Alfamakee	1,468,026
1,400,018	Calhoun	1,531,434
1,342,308	Winnabago	1,426,955
1,325,280	Worth	708,130
1,304,104	Taylor	1,289,519
1,295,226	Union	1,352,282
1,147,532	Cerro Gordo	824,721
1,128,072	Palo Alto	2,303,861
1,124,800	Buena Vista	1,321,824
1,113,927	Audubon	1,185,008
1,027,671	Wright	1,155,515
1,019,190	Story	850,053
	Clinton	1,127,962
68,811,598	Total	71,505,016

These thirty-four counties ship 74 per cent of the 92,165,775 net pounds of butter shipped from the state.

TABLE SHOWING TOTAL NET BUTTER SHIPMENTS OF THE STATE FOR  
THE YEARS 1890 TO 1907, INCLUSIVE, FROM IOWA TO POINTS OUTSIDE  
THE STATE; ALSO INCREASE OR DECREASE AS COMPARED WITH THE  
YEAR PRECEDING.

Years Ending October 1st.	Net pounds of but- ter shipped	Increase over pre- ceding year	Decrease from pre- ceding year
1890	71,256,796		
1891	68,000,710		3,256,086
1892	60,115,931		7,884,779
1893	54,572,900		5,543,031
1894	54,509,417		81,483
1895	66,407,108	11,897,691	
1896	85,032,915	18,625,807	
1897	83,030,081	2,002,834	
1898	76,364,337	6,665,744	
1899	76,680,320	1,315,983	
1900	71,719,329	4,961,007	
1901	74,863,995	3,144,666	
1902	72,714,584	2,149,411	
1903	77,009,794	4,295,210	
1904	76,889,200	1,120,584	
1905	91,061,561	14,172,361	
1906	88,184,337	2,877,224	
1907	92,174,775	3,990,438	

## CREAMERY LIST.

\*Skim stations.  
#Receive cream by rail.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>Adair County—</b>				
1	Adair Co-op. Cry. Co.	M. L. McManus	Adair	C. E. McIntire
2	Arbor Hill Co-op. Cry. Co.	C. C. Pense	Stuart	E. C. Lamoree
3	Blue Grass Cry.	A. L. Stewart & Co	Fontanelle	L. R. Stewart
4	Blue Grass Cry. (Canby)	A. L. Stewart & Co	Fontanelle	
5	Blue Grass Cry. (Pike)	A. L. Stewart & Co	Fontanelle	
6	Blue Grass Cry. (Orient)	A. L. Stewart & Co	Fontanelle	
7	Blue Grass Cry. (Greenfield)	Jas. F. Laude	Greenfield	J. D. Main
8	Greenfield Cry. Co.	A. L. Stewart & Co	Fontanelle	M. N. Bates
9	Blue Grass Cry. (Bridgewater)	A. L. Stewart & Co	Fontanelle	
<b>Adams County—</b>				
10	Blue Grass Cry. (Carl)	A. L. Stewart & Co	Fontanelle	A. H. Ady
11	Fars. Mut. Co-op Cry. Assn.	F. A. Outhier	Prescott	
12	Mt. Etna Fars. Mut. Co-op Cry.	A. C. Peterson	Corning	A. M. McCartney
13	Nevinsville Co-op. Cry. Co.	R. H. Gregory	Nevinsville	C. Sorenson
<b>Allamakee County—</b>				
14	Dorchester Fars. Mut. Cry.	R. W. Tartt	Dorchester	L. B. Olson
15	Calhoun Cry. Co. (Lansing)	P. E. O'Donnell	Church Rl.	K. V. Ferris
16	Postville Fars. Co-op. Cry.	F. H. Welzell	Postville	Jas. A. Gordon
17	Fars. Co-op. Cry. & Comcl. Co.	O. G. Kolerud	Waterville	F. W. Hessel
18	Ludlow Co-op. Cry.	F. A. Sanderman	Waukon	W. E. Muth
19	Arctic Spring Cry. (Quandahl)	O. C. Flatberg	Spring Grove	W. E. Bakken
20	Fars. Waukon Co-op. Cry.	J. L. White	Waukon	Jackson Smith
21	New Albin Co-op. Cry.	R. G. May	New Albin	E. Rice
<b>Audubon County—</b>				
22	Sharon Cry.	C. C. Moller	Audubon, R4.	M. Anderson
23	Oakfield Twp. Sep. Cry. Co.	Hans Nyman	Brayton	J. P. Nielson
24	Audubon Twp. Sep. Cry. Co.	L. P. Nielson	Extra R2.	L. P. Nielson
25	West Hamlin Sep. Cry. Co.	Fred Gjerloff	Extra R2.	J. Johansen
26	Extra Cry.	Chris C. Nelson	Extra	C. C. Nelson
27	Blue Grass Sep. Cry.	C. V. Christensen	Hamlin	Fred Helleman
28	Danish Sep. Cry. Co.	Peter Lykke	Audubon R4.	Peter Thuesen
29	Liberty Cry. (Manning)	L. T. Larson	Irwin	Julius Anderson
30	Ross Cry. (Ross)	Frandsen & Olsen	Linn Grove	J. G. McCurtie
<b>Benton County—</b>				
31	Blairstown Cry.	Chas. Hanbold	Blairstown	Chas. Hanbold
32	Norway Cry.	M. B. Hershey	Norway	M. B. Hershey
33	Urbana Cry. Co.	Chas. Romine	Urbana	Chas. Romine
34	Springbrook Cry.	John Newman	Elgin, Ill.	A. F. Bolender
35	La Porte Co-op. Cry. Co.	C. B. Gingeitch	LaPorte City	Oscar Harvey

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>Black Hawk County—</b>				
36	Crain Creek Cry.	Wm. Meier	Denver Rl.	Wm. Meier
37	Great Western Cry.	Wm. Widdel	Denver	Wm. Widdel
38	Fars. Cry. Co.	G. S. Kleckner	Dunkerton	O. G. Alexander
39	(Eagle Center) Dairy Assn.			
40	East Lester Cry.	E. G. Rechy	Waterloo Rl.	H. C. Konneke
41	Union Cry. Co. (Finchford)	L. B. Duffey	Fairbank	C. E. Brandt
42	Hudson Cry.	C. A. George	Winslow	I. B. Moon
43	Mt. Vernon Cry.	Geo. H. Meoller	Hudson	W. J. Smith
44	Co-op. Cry. Co. (Jubilee)	F. J. Orth	Jesup Rl.	R. D. Lammer
45	Red Bird Cry. (Voorlies)	A. J. Minish	Voorlies	A. I. Widdel
46	Gilbertville Dairy Assn.	E. H. Kasehl	Gilbertville	N. F. Hammel
47	Orange Cry.	Samuel Switzer	Waterloo	J. L. Clark
48	Black Hawk Cry. Co.	Brick Peterson	Cedar Falls R4.	H. W. Chadwick
	Cedar Falls Cry. Co.	F. L. Hjort	Cedar Falls	Ed. Fris
				J. H. Brandes
49	Cedar Falls Cry. Co.	E. Freeze	Cedar Falls	E. Freeze
50	Benson Dairy Co.	Edward Masserly	Benson	F. R. Ballantine
<b>Boone County—</b>				
51	Fars. Co-op. Cry. Co.	M. P. Peterson	Story City	L. C. Peterson
52	Dodge Fars. Mut. Co-op. Cry.	J. F. Lacey	Strashep	L. Bremsen
53	Madrid Cry. Co.	A. R. Westerberg	Madrid	H. G. Clark
	Boone Cry.	F. F. Westerburg	Boone	A. A. Anderson
<b>Bremer County—</b>				
54	Bremer Cry. Co.	H. L. Kelley	Waverly R6.	Wm. Kallenbach
55	Western Douglas Cry. Co. (Waverly)			
56	Little Valley Cry. (Summer)	Carl Oberhen	Plainfield Rl.	C. H. Wedemier
57	Farrington Cry. Co. (Denver)	Chas. Kraneyer	Summer R2.	F. Willis
58	First Maxfield Cry. Co.	E. Garton	Cedar Falls	H. C. Eich
59	Frederika Cry. Assn.	Wm. Millus	Denver	John Wedemeyer
60	Klinger Cry. Co. (Klinger)	J. F. C. McDonald	Frederika	C. E. Carr
61	Maxfield Cry. Co.	C. H. Bohrsen	Dunkerton R3	C. H. Bohrsen
62	Climax Cry. Co.	F. J. Strotman	Readyln Rl.	F. H. Wehling
63	Excelsior Cry. Co.	Henry Specht	Summer R4	Henry Behrends
64	Summer Cry. Co.	H. E. Witke	Summer R4	C. L. Milla
65	Fremont Cry.	C. A. Minger	Summer	F. M. Zell
66	Porter's Siding Cry. Co.	E. C. Finck	Tripoli	H. Hunker
67	Tripoli Cry. Co.	H. Wallbrandt	Tripoli	Wm. Ambrose
68	Artesian Cry. Co. (Denver)	J. G. Koch	Tripoli	F. C. Oltroge
69	LaFayette Cry. Co.	H. Graening	Readyln Rl.	E. H. Homan
70	Washington Cry. Co.	M. O. Walther	Waverly Rl	Henry Plegora
71	Siegel Cry. Co.	E. J. Thies	Waverly	D. Botterman
72	Grove Hill Cry.	H. F. Moeller	Waverly R2	Wm. Lenius
73	Spring Fountain Cry. Co.	J. A. Nell	Fairbank	F. D. Daniels
74	Readyln Co-op. Cry. Co.	Joe Volker	Summer	Fred Sommer
75	Janesville Cry. Assn.	Rudolph Tiedt	Readyln R2	H. A. Griese
76	Northern Cond. Milk Co. (Waverly)	J. W. Stein	Janesville	B. O. Squires
77	Dayton Cry. Co.	R. A. Neely	Phil. 13 S. Fr.	H. C. Ladage
78	Dayton Cry. Co. (Summer)	G. C. Schwake	Summer	John Wehling
79	Dayton Cry. Co. (Westgate)	G. C. Schwake	Summer	
		G. C. Schwake	Summer	
<b>Buchanan County—</b>				
80	Aurora Cry.	Geo. L. Weeks	Aurora	W. A. Rizer
81	Fairbank Fars. Cry. Co.	Jesse Lyon	Fairbank	Walt Peterson
82	Hazelton Fars. Cry. Co.	L. Gerstenberger	Hazelton	F. W. Strong
83	Jesup Cry. Co.	C. L. Bright	Jesup	E. A. Harvey
84	Lamont Cry. Co.	J. D. Thompson	Lamont	M. B. Dunsmoor



## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Buchanan County (Continued)				
85	Otterville Cry. Co. (Ottaville)	G. M. Vincent	Independence.	W. F. Miner
	Wapsie Valley Cry. Co. (Littleton)	I. S. Hutton	Independence.	
87	Wapsie Valley Cry. Co. (Rowley)	I. S. Hutton	Independence.	W. H. Sampson
	Wapsie Valley Cry. Co.	I. S. Hutton	Independence.	R. E. Bantz
Buena Vista County—				
98	Fairfield Cry. Co.	O. P. Peterson	Albert City	Emil Krause
99	Coon River Co-op. Cry. Co.	E. P. Kruse	Newell	J. F. Sharp
90	Fars. Co-op. Cry. Co.	P. F. Corneliusson	Alta	H. Allen
91	Newell Cry. Co.	G. L. Ellison	Newell	J. E. Lovitson
92	Rembrandt Cry. Co.	O. J. Hegna	Rembrandt	P. O. Lindstrom
93	The Linn Grove Cry. Co.	A. M. Frandsen	Linn Grove.	Chris Olson
Butler County—				
94	Aplington Cry. Co.	R. Meyer	Aplington	C. Wisbar
95	White Rose Cry.	S. L. Patterson	Austinville	S. L. Patterson
96	Allison Cry.	W. H. Codner	Allison	W. H. Codner
97	Cold Water Co-op. Dairy Assn.	J. W. Williams	Greene	J. Jacobson
98	Clarksville Cry.	J. J. Ross	Clarksville	J. J. Ross
99	Moore Central (Eleanor)	G. A. Palmer	Aplington	G. A. Palmer
100	Kesley Cry.	H. Patterson	Kesley	H. Patterson
101	Beaver Cry. Co.	Peter Larson	New Hartford	Peter Larson
102	Parkersburg Cry. (Sinclair)	W. S. Mead	Parkersburg	Geo. Johnson
103	Parkersburg Cry. Assn.	M. J. Johnson	Parkersburg	M. J. Johnson
104	Courbat Cry.	O. F. Courbat	Shell Rock	O. F. Courbat
105	Victory Cry. (Shell Rock)	A. B. Shadolt	Waverly	E. F. Miller
106	Walker's Cry.	A. B. Walker	Shell Rock	A. B. Walker
107	Nor. West Point Cry. Co.	H. Debnar	Greene	F. H. Fisher
108	Albion Co-op. Cry. Co.	F. L. Brown	Parkersburg	K. T. Naa
109	Bristow Cry.	J. P. Johnston	Bristow	J. P. Johnston
110	Packard Cry. & Produce Co.	E. Holcomb	Packard	D. McMurray
111	New Hartford Cry.	L. B. Ensign	New Hartford	C. S. Payne
112	Dumont Cry.	F. H. Ahrens	Dumont	Geo. Goodsell
Calhoun County—				
113	Farmers' Co-op. Cry. Co.	C. W. Jewell	Lake City	Carl Lissner
114	Manson Cry.	G. B. Moon	Manson	Chas. Moon
115	Andrew Wood Co.	T. H. Allen	Rockwell City	L. Larsen
116	Somers Cry. Co.	T. M. Borglum	Somers	Carl Moberg
117	Pomeroy Cry. Co.	Henry Albright	Pomeroy	G. F. Allard
Carroll County—				
118	Golden Star Cry.	J. B. Bolke	Arcadia	M. Van Scholk
119	*Fest's Cry.	H. L. Fest	Coon Rapids	F. S. Davis
120	Rose Valley Cry.	C. Kohorst	Roselle	C. Kohorst
121	Templeton Cry. Co.	Geo. Bierl	Templeton	E. C. Schuknekt
122	*Fairmont Cry. Co. (Manning)	E. F. Howe	Omaha, Neb.	W. T. Baker
123	Halbur Cry.	M. J. Wagner	Halbur	M. J. Wagner
Cass County—				
124	Fars. Mut. Co-op. Cry. Co.	P. Pettinger	Cumberland	Albert Heyn
125	*Pioneer Cry.	E. M. Bourne	Viota	E. F. Wolf
126	Alamito Sanitary Dairy	C. F. Schwager	Omaha, Neb.	
127	Blue Grass (Massena)	A. Z. Stewart	Fontanelle	
128	Atlantic Produce Co.	G. G. Jeck	Atlantic	A. E. McClune

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Cedar County—				
129	Golden Star Cry.	W. H. Kroeger	Bennett	W. H. Kroeger
130	Union Cry.	E. Huxoll	Lowden	E. Huxoll
131	Union Cry. (Lowden)	E. Huxoll	Lowden	
132	Home Cry.	E. Huxoll	Lowden	
133	West Branch Cry.	Eves & Elliott	West Branch	Lewis Elliott
Cerro Gordo County—				
134	*J. D. Bickel Produce Co.	M. V. Bickel	Mason City	W. K. Pollard
135	Plymouth Cry. Co.	C. A. Molsberry	Plymouth	Roy D. Sweet
136	Sunnyvale Cry.	J. C. Mortensen	Thornton	Carl Larson
137	*E. B. Higley Co.	H. O. Keefe	Mason City	C. H. Cleveland
138	*Fars. Mut. Co-op. Cry.	H. B. Palmetto	Clear Lake	Guy Thomas
Cherokee County—				
139	White Rose	C. E. Austin	Marcus	M. J. Goodman
140	Washta Cry.	Jas. Robertson, Jr.	Washta	L. W. McCreey
	Cherokee Cry.	Jas. P. Younger	Chicago	Walter Freed
Chickasaw County—				
141	Boyd Farmers' Cry. (Boyd)	J. De Bettigmes	New Hampton	M. J. Donovan
142	Alta Vista Fars. Cry.	Albert Tietjen	Alta Vista	O. H. Buehner
143	Devon Farmers' Cry. Assn. (Devon)	Jno. Larson	N. H'mpt. Rd.	Roger White
144	Deerfield Cry.	J. W. Kane	Alta Vista	E. B. Olds
145	Fredericksburg Butter Factory	C. L. Whitcomb	Fredericksburg	H. E. Forrester
146	Iowa Fars. Cry. Assn.	H. B. Young	Ionia	F. S. Stickman
147	Lawler Cry. Assn.	P. J. Cooney	Lawler	F. A. Zeligler
148	New Hampton Fars. Cry. Co.	J. W. Krieger	New Hampton	E. J. Peterson
149	Farmers' Co-op. Cry. Co. (Williamstown)	E. V. R. Hall	Nashua	J. W. Casley
150	Williamstown Cry. Assn. (Williamstown)	H. S. Kerssen	Fredericksburg	L. L. Flickinger
151	Jerico Cry. Co.	Thos. Altheson	Jerico	J. E. Finnegan
152	Saude Co-op. Cry. Co. (Saude)	H. O. Matbig	Cresco	G. F. Langquist
Clay County—				
153	Farmers' Co-op. Cry.	W. McCurdy	Dickens	A. W. Snyder
154	Postoria Cry. Co.	N. C. Nulsen	Postoria	N. C. Nulsen
155	*Royal Cry. Co.	A. Christensen	Royal	A. Christensen
156	Farmers' Co-op. Cry. (Langdon)	H. R. Beck	Spencer Rd.	A. W. Thayer
157	Spencer Cry.	J. W. Cory	Spencer	F. L. Repka
158	Webb Cry.	J. A. Reid	Webb	J. A. Reid
159	Everly Cry. (Everly)	Wester Bros.	Wesley	E. P. Conway
160	Greenville Cry. Assn.	Chas. Rogers	Greenville	Chas. Watson
Clayton County—				
161	Fidelity Cry.	H. F. Beyer	Edgewood	E. J. Whipple
162	Elkport Cry. (Elkport)	H. F. Beyer	Edgewood	J. S. Watson
163	Farmersburg Co-op. Cry. Co.	A. A. Kishman	Farmersburg	I. D. Hendershot
164	Garnaville Fars. Cry. Co.	H. H. Kuhlman	Garnaville	O. F. Schumacher
165	Luana Fars. Co-op. Cry.	Jas. Humphrey	Luana	J. A. Barker
166	Littleport Cry. (Littleport)	H. F. Beyer	Edgewood	Frank Sherman
167	*J. D. Bickel Produce Co.	J. D. Bickel	McGregor	R. M. Pressey
168	Farmers' Co-op. Cry.	Jno. Christensen	St. Olaf	Jack Frisbie
169	Strawberry Point Fars. Cry. Assn.	O. C. Gladwin	Strawby Pt.	H. J. Evans
170	Volga City Fars. Cry.	A. E. Olinger	Volga City	Watson Shick
171	Blue Grass Cry. (Watson)	Jno. Geraghty	McGregor	F. A. Flet

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Clinton County—				
172	Springbrook Cry. (Delmar).....	Jno. Newman Co.	Elgin, Ill.	C. Eurenus
173	Springbrook Cry. (Ellwood).....	Jno. Newman Co.	Elgin, Ill.	
174	Springbrook Cry. (Petersonville).....	Jno. Newman Co.	Elgin, Ill.	L. Reynolds
175	Springbrook Cry. (Teed's Grove).....	Jno. Newman Co.	Elgin, Ill.	A. Aurep
176	Springbrook Cry. (Welton).....	Jno. Newman Co.	Elgin, Ill.	Carl Berat
177	Farmers' Co-op. Cry. Co.....	Emil Lohman	Wheatland	A. E. Banta
178	Farmers' Co-op. Cry. Co.....	Edward Hart, Jr.	Toronto	W. L. Sloan
Crawford County—				
179	Fairmont Cry. Co.....	E. F. Howe	Omaha, Nebr. 624 S. 12th St.	A. F. Durkee
Dallas County—				
180	Farmers' Co-op. Cry.....	J. L. Keachle	Dexter	J. L. Keachle
181	Perry Cry.....	J. Moody & Son	Perry	Owen Fox
182	Woodward Cry Co.....	Caloney & Son	Woodward	Wm. Ackerman
183	Smith Produce Co.....	A. E. Smith	Redfield	
184	De Soto Co-op. Cry. Co.....	H. G. Smith	De Soto	G. A. Turman
Decatur County—				
185	Clarinda Poultry, Butter & Egg Co.....		Leon	O. J. Gustin
Delaware County—				
186	Greeley Fars. Co-op. Cry.....	J. C. Matthews	Greeley	W. R. Crabb
187	Colesburg Cry. Co.....	Robt. A. Gull	Colesburg	A. L. Landis
188	Barryville Cry. (Barryville).....	Jno. Duggan	Ryan Rl.	Matt McDowall
189	Hopkinton Co-op. Cry.....	I. T. Wilson	Hopkinton	G. O. Miller
190	Bear Grove Cry. Co.....	J. T. Goodkens	Dyersville	J. B. Domayer
191	Delaware Co-op. Cry. (Delaware).....	A. D. Long	Manchester	E. E. Mittsteadt
192	Earlville Cry.....	J. M. Dunn	Earlville	J. M. Dunn
193	Manchester Co-op. Cry.....	Jas. Bishop	Manchester	L. R. Griffith
194	Dairy City Cry.....	A. J. Andrews	Manchester	A. A. Palmer
195	Dairy City Cry. (Golden).....	A. J. Andrews	Manchester	
196	Dairy City Cry. (Ehler).....	A. J. Andrews	Manchester	
197	Dairy City Cry. (Newtonville).....	A. J. Andrews	Manchester	
198	Masonville Co-op. Cry.....	F. S. Harris	Masonville	R. J. Erb
199	Silver Spring Cry.....	E. B. Porter	Delhi	A. H. Bentz
200	Petersburg Co-op. Cry. (Petersburg).....	Jno. Nurte	Earlville R2.	Nick Budden
201	Farmers' Co-op. Cry. (Thorpe).....	M. E. Bluff	Manchester	G. Stuessl
202	Sand Spring Co-op. Cry.....	F. S. Bowen	Sand Spring	Jno. Appleby
203	Ryan Cry.....	Geo. A. Emry	Ryan	Geo. A. Emry
204	Ryan Cry. (Broadway).....	Geo. A. Emry	Ryan	
205	Ryan Cry. (Silver Creek).....	Geo. A. Emry	Ryan	
206	Hazel Greene Cry. Co. (Ryan).....	H. F. McBride	Hopkinton	C. J. Rohde
207	Onelda Cry.....	F. M. Burbridge	Onelda	H. Burbridge
	Spring Branch Co-op. Cry. Co. (Manchester).....	W. J. Davis	Delaware	H. Everts

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Dickinson County—				
208	Lake Park Co-op. Cry.....	J. G. Chupier	Lake Park	E. E. Starr
209	Milford Fars. Butter & Cheese Assn.....	H. H. Shipman	Milford	J. O. Miller
210	Spirit Lake Co-op. Cry.....	A. F. Bergman	Spirit Lake	Geo. Williams
211	Herril Co-op. Cry. Assn.....	T. H. Tredten	Terrill	F. J. Mable
212	E. Curtis & Sons.....	E. Curtis	Spirit Lake	F. E. Winslow
213	Superior Co-op. Cry.....	J. M. Plummer	Superior	Philip Wolf
Dubuque County—				
214	Balltown Co-op. Cry. (Balltown).....	C. Harrington	Specht's Ferry	Henry Koehler
215	Cascade Co-op. Cry.....	P. J. Conlin	Cascade	C. T. Elliott
216	Hickory Valley Cry.....	Jno. Ramm	Farley R17	Henry Knutson
217	Farmers' Golden Star Cry. Co	F. F. Kern	Dyersville	J. B. Feldman
218	Fillmore Co-op. Cry. Co. (Fillmore).....	Wm. Craft	Cascade	Anthony Smith
219	Farley Cry. Co.....	G. W. Cropp	Farley	Thos. Landis
220	Globe Cry. Co. (Luxemburg).....	Geo. Friedmann	N. B. Vista Rd.	J. E. McCaffrey
221	New Vienna Central Cry.....	Henry Fangman	New Vienna	Geo. Landis
222	Farnl Cry. (Richardsville).....	J. W. Farnl	Durango	J. W. Farnl
223	Riverside Cry.....	Nie Semmert	Sherrill	Nie Semmert
224	Sherrill Cry. Co.....	J. C. Boleyn	Specht's Ferry	Fred Kohler
225	Worthington Cry.....	C. Boehler	Worthington	C. Boehler
226	Ladd Cry.....	F. G. Ladd	Zwinglie	F. G. Ladd
227	Holy Cross Cry.....	Leo Sweeney	N. Buena Vista	J. P. Cripps
228	S. P. Wadley Co.....	S. C. Wadley	Dubuque	H. R. Bullis
229	Columbian Cry.....	Clark & Delaney	Dubuque	
230	Loetscher Cry (Richardsville).....	Jno. Loetscher	Waupeaton	Jno. Loetscher
231	Bernard Cry.....	Jas. A. Hayes	Dubuque	
232	Iowa Dairy Co.....	A. M. Consett	Dubuque	Chas. A. Howard
233	O'Neill Cry.....	C. O'Neill	Waupeaton	Frank Tegeler
Emmet County—				
234	Farmers' Co-op. Cry. Co.....	Peter H. Burt	Armstrong	Ray A. Burt
235	Farmers' Cry.....	R. Weiss	Haifa	R. Weiss
236	Huntington Cry.....	I. D. Reimer	Huntington	Geo. Graham
237	Farmers' Cry. Co. (Hoprig).....	Jno. C. Rosold	Graett'n's Rd.	Julius Jensen
238	Denmark Cry. Co.....	H. J. Pisk	Ringsted	Peter Knudsen
239	Porsythe Cry. (Ringsted).....	H. A. Gaarde	Armstrong	Thos. H. Daniel
240	Wallingford Cry. Co.....	O. O. Anderson	Wallingford	J. C. Jensen
Fayette County—				
241	Brush Creek Fars. Cry.....	Guy L. Rawson	Arlington	L. S. Edwards
242	Chermon Valley Cry. Co.....	F. F. Ferguson	Clermont	Amos Erickson
243	Elgin Farmers' Dairy Co.....	M. Luchsinger	Elgin	Ed Hanson
244	Fayette Cry. Assn.....	Peter E. Jubb	Fayette	G. M. Miller
245	Hawkeye Cry. (Hawkeye).....	J. Q. Adams	West Union	Chris Russler
246	Harlan Co-op. Cry.....	J. C. Lewis	Maynard	C. B. Bracy
247	Oran Cry.....	F. E. Shelton	Fairbank	
248	Oelwein Farmers' Cry. Co.....	W. H. Day	Oelwein	C. M. Ross
249	Jefferson Cry. Co. (Oelwein).....	H. H. Meyer	Maynard	A. H. Ford
250	Randallia Cry. Co.....	J. E. Holmes	Randallia	Robt. Wagner
251	Center Valley Cry. Co.....	A. B. Friedley	Sumner	W. Wenthe
252	Farmers' Co-op. Cry. Co.....	John H. Mihm	St. Lucas	E. L. Potter
253	Westgate Co-op. Cry. Co.....	F. S. Coleman	Westgate	C. H. Capper
254	Riverside Cry.....	F. J. Schroeder	Wadena	F. J. Schroeder
255	West Union Cry.....	N. H. Nelson	Calmar	C. Horton
256	Waucoma Farmers' Cry. Co.....	Thos. McEaney	Waucoma	P. J. Kolbet
257	Scott Cry. Assn.....	F. A. Sherman	Stanley	W. W. Day
258	Alpha Farmers' Cry.....	J. T. Gager	Alpha	Ed. Capper
259	Richfield Cry.....	H. C. Schroeder	Hawkeye	C. A. Day
260	Maple Grove Cry. Co. (Oelwein).....	Thos. E. Sadler	Hazleton	Thos. E. Sadler

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Floyd County—				
261	Rockford Co-op. Dairy Assn. c	E. F. Briggs	Rockford	J. C. Farnham
262	Flood Creek Cry. Co. c	M. A. Hirsch	Charles City	H. J. Blinger
263	Niles Creamery (Niles) s	J. J. Brunner	Charles City	Frank Brunner
264	Charles City Cry. c	J. J. Brunner	Charles City	C. L. Woodworth
265	Charles City Cry. c	Emil Weiss	Charles City	P. J. Fisher
266	Floyd Creamery c	W. Stabler	Floyd	A. Volbrecht
267	Furty Cry. Co. c	Fred James	Charles City	Fred James
Franklin County—				
268	Hamilton Co-op. Cry. Co. c	Geo. Dohrmann	Hampton	L. C. Langesen
269	Farmers' Co-op. Cry. Co. c	C. A. Nicholson	Dows RE	F. L. Larson
270	Hampton Cry. (Hampton) s	A. J. Barth	Cedar Rapids	Ed. Walker
271	Grant Center Cry. c	M. Shipley	Iowa Falls	W. E. Mittelstadt
272	Latimer Co-op. Cry. Co. c	A. J. Johnson	Latimer	A. F. Shultz
273	Gurlier Barth Cry. Co. c	R. H. M. Cry.	Hampton	R. E. Walker
Greene County—				
274	G. W. Nicholson Co. s	W. N. Wertz	Grand Jct.	W. H. Sampson
Grundy County—				
275	Buck Grove Cry. c	O. Niehus	Aplington	J. G. Ellinger
276	German Twp. Cry. c	Frank J. Martin	Ackley	Henry Schutler
277	Dike Co-op. Cry. Co. c	M. J. Henningsen	Dike RI	J. Chapman
278	Fredsville Co-op. Cry. Co. c	Hans Lausen	Cedar Falls R	A. Kindberg
279	Beaver Center Cry. Co. c	J. A. Meyer	Stout	T. E. Dilger
280	Reinbeck Cry. c	R. E. Welch	Reinbeck	T. L. Case
281	Fern Cry. Co. c	W. H. Henning	Parkersburg	B. T. Soles
282	Grundy Center Produce Co. f	B. R. Churchill	Grundy Ctr.	C. B. Churchill
283	Cleves Cry. c	Frank J. Martin	Ackley	J. F. Schultz
Guthrie County—				
284	Bayard Co-op. Cry. Co. c	E. E. Strauser	Bayard	C. Rasmussen
285	Casey Cry. Co. c	Harlie E. Smith	Casey	C. H. Matravers
286	Guthrie Center Co-op. Co. c	J. A. McLaughlin	Guthrie Ctr.	W. H. Skitt
287	Glendon Cry. Co. c	E. L. Hanes	Glendon	J. T. Girard
288	Menlo Cry. Co. (Menlo) s	A. C. Curtis	Stuart	H. H. Colbert
289	Panora Cry. c	F. P. Wilcox	Panora	J. Suh
290	Iowa Dairy Co. (Brough) s	W. H. Hall	Yale	
291	Iowa Dairy Co. (Brough) s	W. H. Hall	Yale	
292	North Branch Co-op. Cry. s	S. O. Jorgensen	North Branch	S. O. Jorgensen
Hamilton County—				
293	Ellsworth Co-op. Cry. c	S. Stenberg	Ellsworth	D. W. Mohler
294	Ellsworth Co-op. Cry. (Williams) c	S. Stenberg	Ellsworth	
295	Ellsworth Co-op. Cry. (Radchiro) c	S. Stenberg	Ellsworth	
296	Jewell Cry. Co. c	Chris Moreck	Jewell	John Reerson
297	Randall Farmers' Cry. Co. c	M. G. Olson	Randall	M. G. Olson
298	R. G. Clark Co. c	R. G. Clark	Webster City	Thos. Oravig
300	Webster City Cry. c	H. Ellingson	Webster City	

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Hancock County—				
301	"Britt Co-op. Cry. Co. c	Bertha Schaper	Britt	H. L. McNary
302	Crystal Cry. Co. c	L. A. Nelson	Crystal Lake	L. A. Nelson
303	"Goodell Cry. Co. c	L. W. Wesenberg	Goodell	Knute Haug
304	"Garner Cry. c	H. C. Schultz	Garner	H. C. Schultz
305	Concord Cry. Co. c	J. Kiesel	Concord	C. R. Conway
306	Kanawha Cry. Co. c	F. L. Bush	Kanawha	B. O. Brownlee
307	Woden Cry. c	L. C. Peterson	Woden	L. C. Peterson
Hardin County—				
308	"Alden Cry. c	T. E. Huston	Alden	N. H. Trimble
309	Buckeye Co-op. Cry. c	E. A. Carriel	Buckeye	R. C. Rodgers
310	Eldora Cry. c	Jensen & Hadley	Eldora	R. R. Hadley
311	Spring Branch Co-op. Cry. c	J. K. Towley	Hubbard	G. H. Whitney
312	Hubbard Co-op. Cry. c	Breast Hilker	Hubbard	Fred Herzog
313	Iowa Falls Cry. Co. c	G. L. Winery	Iowa Falls	J. B. Jones
314	New Providence Cry. Co. s	W. T. Kersey	N. Providence	Jno. W. Mohler
315	Concord-Scott Co-op. Cry. c	J. S. Thompson	Garden City	J. F. Barretts
316	"Concord-Scott Co-op. Cry. (Garden City) c	J. S. Thompson	Garden City	
317	"Concord-Scott Co-op. Cry. (Radclief) c	J. S. Thompson	Garden City	
318	Steamboat Rock Cry. c	F. L. Willis	Steamboat Rock	M. J. Mansager
319	Spring Branch Co-op. Cry. Co. c	J. K. Tomley	Hubbard	G. H. Whitney
320	Farmers' Co-op. Cry. Co. c	L. A. Eggeleha	Chester	C. C. Plummer
321	Elma Co-op. Cry. Co. c	J. P. Whelan	Elma	J. P. Whelan
322	Ackley Cry. c	Martin & Saverald	Ackley	P. J. Saverald
Howard County—				
323	Maple Leaf Cry. Co. c	D. Lane	Elma	Albert Herman
324	Lourdes Cry. (Lourdes) c	B. H. Ames	Elma RA	
325	Prodivin Cry. Assn. c	J. A. Dostal	Prodivin	J. A. Dostal
326	Saratoga Co-op. Cry. c	Alfred Miles	Saratoga	Henry Foss
327	Elma Co-op. Cry. Co. c	P. J. Whalen	Elma	P. J. Whalen
328	Cresco Creamery c	D. A. Fosse	Cresco	D. A. Palmer
329	Schley Creamery c	C. A. Fosse	Cresco	C. A. Fosse
330	Farmers' Co-op. Cry. c	L. A. Eggeleha	Chester	C. C. Plummer
Humboldt County—				
331	Arnold Cry. c	F. M. Straight	Arnold	F. M. Straight
332	Bradgate Co-op. Cry. c	E. Van Horn	Bradgate	D. A. O'Neil
333	Rode Cry. Assn. c	O. Hoff	Bode	Alfred Gransteth
334	Owl Lake Cry. Co. c	C. M. Clausen	Goldfield	Frank Haines
335	"Humboldt Cry. Co. c	T. W. Rogers	Humboldt	John Boland
336	Waconia Cry. Co. c	John Meriz	Waconia	Mike Hauser
337	Rutland Cry. c	U. G. Besett	Rutland	Joe Bogh
338	Clover Cry. c	Lewis Olson	Thor	P. A. Knutson
Ia County—				
339	Holstein Cry. (Holstein) s	A. W. Hubbard	Hinckley, Ill.	W. O. Bradley
Iowa County—				
340	Shimer Cry. Co. c	S. H. Standerson	Conroy	W. S. Dilger
341	Genoa Bluff Cry. Co. (Ladora) c	M. W. Kelting	Williamsburg	G. P. Byrne
342	Ladora Cry. Co. c	John H. Bate	Ladora	Lester Godwey
343	Marengo Farmers' Co-op. Cry. c	Dennis Sullivan	Marengo	B. S. Wallace
344	Victor Co-op. Cry. Co. c	L. J. Nowotny	Victor	G. W. Baltinger
345	Troy Cry. Co. c	Geo. C. House	Williamsburg	W. B. Edwards
346	Troy Cry. Co. (Williamsburg) c	Geo. C. House	Williamsburg	
347	York Cry. Co. c	H. W. Huedepohl	South-Anna	G. E. Steinke

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Jackson County—				
348	Fulton Co-op. Cry. Co.	Jno. Helde	Fulton	Howard Coulson
349	Farmers' Union Co-op. Cry. Co.	Walter M. Miller	Macquoketa	J. E. Danson
350	Springbrook Cry. (Miles)	John Newman Co.	Elgin, Ill.	A. J. Spohn
351	Ladd Cry	F. G. Ladd	Geo. Werner	Geo. Werner
352	Preston Cry. Assn.	Sam'l McNeil	Preston	Jno. S. Smith
353	*Preston Cry. Assn. (Preston)	Sam'l McNeil	Preston	
354	Springbrook Cry. (Preston)	Jno. Newman Co.	Elgin, Ill.	A. J. Negus
355	Springbrook Cry. (Spragueville)	Jno. Newman Co.	Elgin, Ill.	
356	Springbrook Cry. (Union Centre)	Jno. Newman Co.	Elgin, Ill.	
357	Springbrook Cry. (Browns)	Jno. Newman Co.	Elgin, Ill.	John M. Hoffman
358	Sterling Separator Co.	N. A. Hoffmann	Lamotte	
359	St. Donatus Cry	Heinric & Frantzen	St. Donatus	J. P. Frantzen
360	Hansen Cold Storage Co.	E. D. Hansen	Macquoketa	P. J. Hagertry
361	Springbrook Cry	Jno. Newman Co.	Elgin, Ill.	J. C. Ducharme
362	Springbrook Cry	Jno. Newman Co.	Elgin, Ill.	G. S. Wing
363	Springbrook Cry. (Andrew)	Jno. Newman Co.	Elgin, Ill.	
364	Bellevue Cry	F. G. Ladd	Bellevue	
Jasper County—				
364	Baxter Dairy Co.	H. Krampe	Baxter	H. C. Schettler
365	Newburg Cry. Co.	G. D. Alden	Newburg	A. Newell
Jefferson County—				
366	Fairfield Cry. Co.	H. V. Downs	Fairfield	G. Y. Ross
367	Four Corners Cry. Co.	E. B. Cole	Lockridge Rl	E. B. Cole
368	*Elmwood Cry	John McLane	Fairfield	R. B. Hughes
Jones County—				
369	Monmouth Cry. (Monmouth)	Jas. P. Younger	Chicago, Ill.	C. E. Mills
370	Fawn Creek Cry.	J. S. Condit	Anamosa	Wm. Giechart
371	Center Junction Cry.	Jus. P. Younger	Chicago, Ill.	E. A. Kinsler
372	Amber Co-op. Cry. Co.	O. T. Ruhe	Amber	Frank Nickel
373	Langworthy Co-op. Cry.	J. H. Batchelder	Langworthy	J. H. Batchelder
374	Martelle Cry.	J. H. Batchelder	Martelle	S. C. Batchelder
375	Klondike Cry.	R. Bohren	Monticello	F. Lehman
376	*Diamond Cry.	W. J. Pinchas	Monticello	P. Kleckner
377	Diamond Cry. (Prairieburg)	W. J. Pinchas	Monticello	
378	Diamond Cry. (Lost Nation)	W. J. Pinchas	Monticello	
379	Diamond Cry. (Hopkinton)	W. J. Pinchas	Monticello	
380	Topaz Cry	C. W. Simpson	Oxford Jet.	Geo. Jensen
381	Diamond Cry. (Oxford Junction)	W. J. Pinchas	Monticello	
382	Diamond Cry. (Monticello)	W. J. Pinchas	Monticello	
383	Diamond Cry. (Smithtown)	W. J. Pinchas	Monticello	
384	Diamond Cry. (Temple Hill)	W. J. Pinchas	Monticello	
385	Diamond Cry. (So. Grove)	W. J. Pinchas	Monticello	
386	Clay Valley Co-op. Cry.	J. D. Neelans	Onslow	F. M. Huyck
387	Scotch Grove Co-op. Cry.	H. R. Jacobs	Scotch Grove	J. M. Woellert
388	Downsville Fars. Cry.	C. R. Wilder	Monticello	C. R. Wilder
389	Burk Cry	C. L. Perry	Anamosa	C. L. Perry
Keokuk County—				
390	Sigourney Cry		Sigourney	

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Kossuth County—				
391	Algona Co-op. Cry. Co.	J. B. Hofins	Algona	W. G. Sterzbach
392	Plum Creek Cry.	C. W. Hopkins	Algona Rl.	M. J. Bobo
393	Burt Co-op. Cry. Co.	A. Dan	Burt	D. L. Driver
394	Bancroft Co-op. Cry. Co.	John Bernard	Bancroft	A. J. Doleschal
395	Fenton Cry. Co.	F. C. Newell	Fenton Rl.	F. D. Shifflet
396	Germania Co-op. Cry. Co.	M. J. Dyer	Germania	M. J. Dyer
397	Hobart Cry. (Hobart)	Wester Bros	Wesley	P. W. Johnson
398	Irrington Cry. Co.	Jesse L. Bedell	Irrington	C. A. Nurell
399	Loverns Co-op. Cry. Co.	W. E. Kyler	Luverne	N. Christensen
400	Lone Rock Co-op. Cry. Co.	Wm. Dehnert	Lone Rock	J. T. Hanna
401	Farmers Co-op. Cry.	E. J. Skinner	Ledyard	Henry M. Dyer
402	Seneca Co-op. Cry. Co.	M. Jensen	Fenton Rl.	F. Erickson
403	Sexton Cry. (Sexton)	Wester Bros	Wesley	W. H. Anderson
404	St. Joseph Co-op. Cry. (Livermore)	Peter Bormann	Bode	Christ Bogh
405	Sven Co-op. Cry.	Ida Anderson	Sven City	B. S. Nelson
406	Titonska Cry. (Titonska)	L. C. Peterson	Woden	Louis Mortensen
407	Lotts Creek Co-op. Cry.	H. W. Dreyer	Lone Rock	D. L. Gauden
408	Whittemore Cry. Co.	H. P. Hatch	Whittemore	A. M. Whitney
409	Wesley Cry	Wester Bros	Wesley	H. F. Hollenbeck
Lee County—				
410	The S. P. Pond Co.	F. H. George	Keokuk	Chas. Leibfarth
Linn County—				
411	Birk Cry	C. L. Perry	Anamosa	C. L. Perry
412	Central City Cry	P. W. Sawyer	Central City	W. A. Stone
413	Valley Farm Cry	P. G. Henderson	Central City	Frank Gillilan
414	Coggon Cry	J. J. McAreary	Coggon	J. J. McAreary
415	North Side Cry. Co.	W. H. Trefz	Coggon	M. E. Root
416	Gurler-Barth Co.	A. J. Barth	Cedar Rapids	C. C. McCue
417	Center Point Cry	Pollock & Brown	Center Point	C. N. Pollock
418	Ely & Western Cry.	Frank J. Dolezal	Ely	Wm. Lipavsky
419	Ely & Western Cry. (Western College)	Frank J. Dolezal	Ely	
420	Springville Cry	C. E. Batchelder	Springville	C. E. Batchelder
421	Springville Cry. (Paralata)	C. E. Batchelder	Springville	
422	Troy Mills Cry.	J. M. Tupper	Troy Mills	J. M. Tupper
423	Highland Cry. Co.	John Tehl	Walker	G. R. Batchelder
424	Waubek Cry.	Bates & Hemenway	Waubek	H. C. Hemenway
425	Walker Cry.	H. J. Nietert	Walker	S. W. Laird
426	Rogers Cry.	T. E. Ravenscroft	Rogers	M. W. Dubbs
427	Urbana Cry	Jas. Romine	Urbana	Jas. Romine
Lyon County—				
428	*George Cry. Co. (Larchwood)	H. P. Jennings	George	W. J. Becker
429	*George Cry. Co. (Matlock)	H. P. Jennings	George	
430	Littlerock Mut. Co-op. Cry.	O. A. Morse	Little Rock	O. B. Dubbs
Mahaska County—				
431	*New Sharon Produce Co.	A. R. Hardesty	New Sharon	Harry Martin
432	*Oskaloosa Cry. Co.	H. W. Garner	Oskaloosa	J. M. Taff
Marion County—				
434	*Pella Cry. Co.	D. R. Rhynsbarger	Pella	T. Smorenberg

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Marshall County—				
435	*Minerva Valley Cry. Assn. c	A. Brackney	Clemons	G. R. Jackman
436	Dunbar Cry. Co. c	O. J. Olson	Dunbar	C.C. Bomberger
437	Liscomb Cheese Co. c	Thos. E. Culp	Liscomb	Thos. E. Culp
438	State Center Fars. Cry. c	C. Hansen	State Center	G. T. Shaugh
Mitchell County—				
439	David Co-op. Cry. Assn. c	M. V. Fairbrather	David	Wm. Bomberger
440	Rock Creek Co-op. Cry. (Osage) c	H. L. Johnson	Rudd	Sig Klemesrud
441	Farmers' Co-op. Cry. Assn. (Osage) c	J. W. Clay	Osage	M. M. Blandin
442	Riceville Co-op. Cry. c	F. J. Carpenter	Riceville	A. B. Grover
443	Stacyville Cry. c	Spensley & Co.	Stacyville	J. B. Spensley
444	St. Ansgar Cry. Co. c	J. M. Tollefson	St. Ansgar	B. C. Iff
445	Toeterville Co-op. Cry. c	L. C. Baker	St. Ansgar	A. M. Hofand
446	Osage Co-op. Cry. Assn. c	J. L. Tibbetts	Osage	G. Dushane
447	McIntire Fars. Co-op. Cry. c	A. W. Kaericker	McIntire	A. W. Kaericker
448	Little Cedar Cry. c	Geo. Helfter	Little Cedar	Geo. Helfter
449	New Haven Cry. (New Haven) c	J. J. Branner	Charles City	Julius Brunner
Monona County—				
449	*Moorhead Cry. c	P. D. Nelson	Moorhead	P. D. Nelson
Monroe County—				
450	*Albia Cry. c	Elder & Elder	Albia	W. A. Elder
Muscatine County—				
451	Nickel Plate Cry. c	Geo. W. Kelley	Wilton Jct.	J. J. Creswell
452	Iowa Condensed Milk Co. s	S. G. McFadden	West Liberty	
O'Brien County—				
453	Caledonia Cry. Co. (Pauflina) s	Wm. Gehris	Paulina	Wm. Gehris
454	*Hartley Cry. c	A. D. Rozeboom	Hartley	F. P. Riley
455	*Pringhar Cry. c	A. W. Hubbard	Hinckley, Ill.	G. A. Bristol
456	*Sheldon Cry. c	D. A. Miller	Sheldon	Joe Vollman
457	*Sheldon Cry. (Matlock) c	D. A. Miller	Sheldon	
458	*Sheldon Cry. (Boyden) c	D. A. Miller	Sheldon	
459	Union Cry. Co. c	Wm. Strampe	Paulina	Wm. Strampe
Osceola County—				
460	Ashton Cry. c	C. W. Davis	Ashton	C. W. Davis
461	Allendorf Cry. c	A. Klampe	Allendorf	A. Klampe
462	*Sibley Cry. c	C. H. Day	Rock Valley	J. J. Teeple
463	Farmers' Co-op. Cry. c	Rob I. Stewart	Ocheyedan	Clyde Jennings
Page County—				
464	Clarinda Butter & Egg Co. s	W. W. Richardson	Clarinda	John Sallie
Palo Alto County—				
465	Silver Lake Cry. Co. c	J. J. Martin	Ayrshire	F. W. Shellman
466	Cylinder Cry. Co. c	E. W. Reid	Cylinder	E. W. Reid
467	Rush Lake Cry. c	J. H. McCreary	Curlew	M. Anderson
468	Emmetsburg Cry. Co. c	Lewis Stuchmer	Emmetsburg	A. Kristensen
469	Fairville Cry. Co. (Fairville) s	Joe Kluge	Cylinder	W. D. Kucker
470	Lost Island Cry. Co. c	L. C. Christensen	Emmetsburg	J. N. Bruck
471	Mallard Butter & Cheese Co. c	T. C. Truog	Mallard	T. C. Wilson

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Palo Alto County (Continued)				
472	Farmers' Co-op. Cry. Co. c	B. L. Cullen	Grattinger	R. Nelson
473	Osgood Cry. Co. c	J. M. Bash	Emmetsburg	Edgar Chadwick
474	Palo Alto Cry. Co. c	S. A. Smith	Ruthven Rl.	E. J. Remington
475	Farmers' Co-op. Cry. c	Chas. E. Yocum	Ruthven	A. L. Remington
476	Rodman Co-op. Cry. Co. c	C. J. Foye	Rodman	C. F. Bollig
477	West Bend Co-op. Cry. c	A. L. Frye	West Bend	T. A. Clarke
478	Depeu Cry. Co. c	R. Buchan	Cylinder Rl.	Howard Gohr
Plymouth County—				
479	Paynes Cry. c	Payne Bros.	Kingsley	Ira Stewart
480	Grant Twp. Cry. Co. (Mammes) c	F. Kusch	LeMars Rl.	Jobe Kennedy
481	*Remsen Cry. c	A. H. Hubbard	Hinckley, Ill.	J. E. Clink
482	Akron Cry. c	Aug. Popritz	Akron	Aug. Popritz
483	LeMars Cry. Co. c	K. K. Kennedy	LeMars	C. Fimmel
Pocahontas County—				
484	*Laurens Cry. c	J. G. Hinn	Laurens	F. W. Johnson
485	Plover Cry. Co. c	H. Fitzgerald	Plover	Geo. Heathman
486	Gilt Edge Cry. c	W. R. Rogers	Roife	W. R. Rogers
487	Palmer Cry. c	Siebel Bros.	Palmer	Geo. Siebel
488	Pocahontas Cry. c	W. T. White	Pocahontas	Geo. W. Webb
Polk County—				
489	*Beatrice Cry. Co. (Des Moines) s	A. E. Wilkinson	Lincoln, Neb.	O. E. Green
490	*Grimes Butter & Cheese Co. s	W. J. Stewart	Grimes	
491	*Des Moines Cry. Co. s	H. S. Schermerhorn	Des Moines	W. S. Gould
492	*Farmers' Co-op. Produce Co. s	Keller J. Bell	Des Moines	W. E. Blood
493	*Crystal Springs Cry. c	Murdo MacRae	Des Moines	Wm. McWilliam
Pottawattamie County—				
494	*Waterloo Cry. Co. c	Leroy Corliss	Council Bluffs	A. F. Zimmerman
495	*Waterloo Cry. Co. (Underwood) c	Leroy Corliss	Council Bluffs	
496	*Waterloo Cry. Co. (Welby) c	Leroy Corliss	Council Bluffs	
497	*Waterloo Cry. Co. (Mindon) c	Leroy Corliss	Council Bluffs	
Poweshiek County—				
498	*Springbrook Cry. c	John Newman Co.	Elgin, Ill.	O. W. Hicks
499	*Springbrook Cry. c	John Newman Co.	Elgin, Ill.	John Kane
500	*Grinnell Cry. c	W. L. Fowler	Grinnell	M. J. Powers
501	*Grinnell Cry. (Brooklyn) c	W. L. Fowler	Grinnell	
502	*Grinnell Cry. (Ewart) c	W. L. Fowler	Grinnell	
503	*Grinnell Cry. (Laurel) c	W. L. Fowler	Grinnell	
504	Springbrook Cry. c	John Newman Co.	Elgin, Ill.	F. B. Palmer
505	Deep River Cry. c	B. W. Grier	Deep River	H. J. Goebel
Sac County—				
506	Farmers' Co-op. Cry. c	C. F. Jackson	Early	C. S. Woods
507	Herring Cry. c	M. R. Wright	Herring	M. R. Wright
508	*Lake View Cry. c	Geo. O. Fisher	Lake View	Geo. O. Fisher
509	Delaware Center Cry. c	Clark N. Searle	Nemaha	T. M. Borglum
510	*Farmers' Cry. Co. c	J. A. Cranston	Odebolt	H. M. Rogers
511	Schaller Cry. c	A. H. Hubbard	Hinckley, Ill.	V. E. Krantz
512	Eden Cry. (Schaller) c	H. Junkermer	Storm Lake	Elmer Wise
513	*Wall Lake Cry. c	Thos. Aherb	Wall Lake	D. A. Probst
514	Blue Grass Cry. c	I. Hinkman	Lytton	Fred Hillmann

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Scott County—				
515	*Star Cry.....	J. K. Marriott	Long Grove	Harry Ambler
516	*A. Wood Cry. Co.....	F. A. Waugh	Davenport	R. K. Emly
Shelby County—				
517	Corley Cry. Co.....	Jacob Buech	Avoca	A. Cochrane
518	*Earling Cry. Co.....	Jacob Buech	Earling	Jacob Buech
519	Center Cry. Co.....	Geo. H. Miller	Harian R2.	M. Jensen
520	Buck Valley Cry. Co.....	M. P. Henriksen	Poplar	S. Nymand
521	Danway Cry. Co.....	H. Dahlop	Kirkman	N. Hansen
522	Portsmouth Cry.....	M. A. Sorenson	Portsmouth	M. Ankersterne
523	*Prairie Rose Cry.....	J. D. Lorentzen	Walnut	Hans Jensen
524	*Prairie Rose Cry. (Walnut).....	J. D. Lorentzen	Walnut	Hans Jensen
Sioux County—				
525	The Alton Cry. Co.....	Geo. E. Mueller	Alton	J. F. Van deMeer
526	Hospers Cry.....	Stoever & Boteman	Hospers	Emil Zoer
527	Hawarden Cry.....	J. P. Mueller	Hawarden	Peter Peterson
528	*Hull Cry.....	Rud Stensvad	Hull	J. L. Curtis
529	*Rock Valley Cry.....	C. H. Day	Rock Valley	Jay Broderick
530	Jeigerhuis & Co. (Sioux Center).....	Rud Stensvad	Hull	E. Den Herder
Story County—				
531	Cambridge Fars. Co-op. Co.....	F. N. Bossont	Cambridge	F. N. Bossont
532	Gilbert Fars. Cry. Assn.....	C. P. Lake	Gilbert	C. F. Lake
533	Huxley Fars. Cry. Co.....	A. H. Sheldahl	Huxley	C. J. Olson
534	Roland Fars. Cry. Co.....	L. T. Olson	Roland	Geo. Wick
535	Story City Co-op. Cry. Co.....	Alex Henderson	Story City	Sam Severeid
536	Slater Farmers' Cry. Co.....	O. J. Viland	Slater	C. Clark
537	Zearing Cry. Co.....	C. P. Bean	Zearing	C. N. Hart
538	*Collins Cry.....	H. K. Gronheck	Collins	F. C. Meahl
539	Farmers' Cry. Co.....	BH. Baumgardner	McCallsburg	C. T. Knutson
	Iowa State College.....	Prof. G. L. McKay	Ames	John Bower
Tama County—				
540	Springbrook Cry.....	John Newman Cry.	Elgin, Ill.	G. T. Guthrie
541	*Springbrook Cry.....	John Newman Co.	Elgin, Ill.	F. L. Francisco
542	Tama Co-op. Cry. Co.....	H. Bissel	Tama	W. H. Graham
Taylor County—				
543	*Clearfield Cry Co.....	Joe Doubet	Clearfield	O. J. Gustin
544	*Bedford Cry.....	Frank Dunning	Bedford	Leslie Klopp
Union County—				
545	*Creston Poultry, Butter & Egg Co. (Creston).....	W. W. Richardson	Clarinda	John Sallie
546	Farmers' Co-op. Cry. Co.....	Jos. Koeppling	Afton	Jos. Koeppling
Wapello County—				
547	*Yorkshire Cry.....	R. N. Morrell	Ottumwa	J. C. Hall
548	Blakesburg Cry.....	J. W. Poland	Blakesburg	J. W. Poland
Washington County—				
549	Linwood Cry.....	S. E. Reisman	Keota	Geo. A. Crowther
550	*Linwood Cry. (Kalona).....	S. E. Reisman	Keota	Geo. A. Crowther
Wayne County—				
551	*Old Colony Cry.....	Jas. L. Humphrey	Humeston	S. Peterson

## CREAMERY LIST—CONTINUED.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Webster County—				
552	*Ft. Dodge Cry. Co.....	A. R. Loomis	Ft. Dodge	S. H. Deucker
553	*Ft. Dodge Cry. Co. (Sincclair).....	A. R. Loomis	Ft. Dodge	S. H. Deucker
Winnebago County—				
554	Forest City Co-op. Cry.....	John Carson	Forest City	W. C. Frank
555	*Forest City Co-op. Cry. (Forest City).....	John Carson	Forest City	W. C. Frank
556	Lake Mills Cry. Co.....	J. A. Horvel	Lake Mills	T. A. Storvick
557	*Lake Mills Cry. (Dahl's Church).....	J. A. Horvel	Lake Mills	T. A. Storvick
558	*Lake Mills Cry. (Newton Twp.).....	J. A. Horvel	Lake Mills	T. A. Storvick
559	*Lake Mills Cry. (Mt. Valley Twp.).....	J. A. Horvel	Lake Mills	T. A. Storvick
560	*Lake Mills Cry. (Bristol Twp.).....	J. A. Horvel	Lake Mills	T. A. Storvick
561	Lincoln Co-op. Cry. Co.....	P. Quamme	Rake	P. N. Peterson
562	Scarville Cry. Assn.....	K. M. Larson	Scarville	S. Kristensen
563	Vinje Cry. Assn.....	Nels Berg	Scarville	E. A. Jensen
564	Thompson Co-op. Cry. Assn.....	E. E. Branstad	Leland	M. N. Topager
565	Buffalo Center Cry. (Buffalo Center).....	L. C. Petersen	Woden	Jno. O. Olsen
Winnechick County—				
566	Silver Creek Cry.....	C. A. Reed	Burr Oak	V. V. Johnson
567	*Calmar Cry.....	A. E. Bos	Calmar	Iver Barlow
568	Ice Cave Cry.....	J. Johnson & KJome	Decorah	Els Olson
569	Festina Cry Co.....	W. A. Schrandt	Calmar R1	Henry Hesse
570	Highland Cry. Co.....	Bidne & Akre	Highlandville	Peter J. Bidne
571	Rock Springs Cry. Co. (Highlandville).....	P. M. Peterson	Spring Grove	P. M. Peterson
572	Kendallville Cry.....	N. H. Nelson	Calmar	Ed. Holnes
573	Nordness Cry. Co.....	J. N. Bragstad	Decorah R1	G. H. Thune
574	Red Oak Cry. Co.....	N. E. Ramsey	Decorah	Hans Foss
575	Silver Spring Cry. Co.....	M. J. Nicholson	Decorah R2	Ole Hauge
576	L. T. Fosse & Sons.....	L. T. Fosse	Ridgeway	O. G. Fosse
577	Lincoln Farmers' Co-op. Cry. Assn.....	A. W. Prann	Ridgeway	G. A. Bakken
Woodbury County—				
578	Hanford Produce Co.....	J. H. Whittemore	Sioux City	W. O. Wheelock
579	Blue Valley Cry. Co.....	Blue Val. Cry. Co	Sioux City	Carl Whacker
Worth County—				
581	Fertile Co-op. Dairy Co.....	J. T. Tallackson	Fertile	J. A. Johnson
582	Nordland Cry. Assn.....	P. E. Hammer	Joice	A. H. Nelson
583	Danville Cry. Co.....	M. O. Bray	Kensett	Gilbert Olson
584	Farmers' Co-op. Cry. Assn.....	E. B. Stock	Manly	L. O. Knudson
585	Farmers' Butter & Cheese Assn.....	M. D. Johnson	Northwood	R. S. Bergsather
586	Harland Dairy Assn.....	Gust Reyerson	Norman	A. M. Hanson
587	Brookfield Cry. Assn.....	E. A. Tenold	Northwood	J. P. K. Jensen
588	Tenold Cry. Assn.....	S. O. Vold	Northwood R1	N. O. Dahlen
Wright County—				
589	Norway Co-op. Cry. Co.....	C. J. Baxter	Belmond	E. E. Evans
590	Clarion Cry. Assn.....	Wiert Johnson	Clarion	Ira O'Neil
591	*Pounain Cry.....	D. Goodrich	Goldfield	Jno. Beck
592	Rowan Co-op. Cry. Co.....	D. A. French	Rowan	Ben Fanselow
593	Roe Bros. & Massey.....	C. M. Massey	Eagle Grove	C. M. Massey
594	Falsville Cry. Co.....	W. A. Gartz	Belmond R1	Hans A. Kofold

## IOWA CHEESE FACTORY LIST.

Office record number	Name of Factory	Proprietor or Manager	Post Office Address	Cheesemaker
	Bremer County—			
1	Janesville Cheese Factory.....	Geo. V. Fowler..	Waterloo.....	John McMurray
	Cass County—			
2	Lewis Cheese Factory.....	Smart & Dehan..	Lewis.....	M. E. Dehan
	Crawford County—			
3	Astor Cheese Factory.....	O. A. Olson.....	Astor.....	Guy Foye
	Floyd County—			
4	Elm Springs Cheese Factory..	H. D. White....	Charles City..	W. B. Pfeiffer
	Greene County—			
5	Dana Mutual Co-op. Crm. Co..	W. J. Elling....	Dana.....	W. J. Elling
	Howard County—			
6	Cresco Cheese Factory.....	Wm. Kellow....	Cresco.....	W. N. Lathrop
7	Clover Leaf Cheese Factory....	J. J. House.....	Cresco.....	J. J. House
	Lee County—			
8	Franklin Sta. Cheese Factory..	L. C. Washburn..	Donnellson...	L. C. Washburn
	Monroe County—			
9	Bone Cheese Factory.....	S. G. Bone.....	Albia.....	S. G. Bone
	Marshall County—			
10	Liscomb Cheese Co.....	Thos. E. Culp...	Liscomb.....	Thos. E. Culp
	Poweshiek County—			
11	Jacobs Cheese Factory.....	L. A. Windhurst	Jacobs.....	S. M. Payne
	Taylor County—			
12	Blockton Cheese Factory.....	D. T. Waldrip...	Blockton.....	D. T. Waldrip
	Wayne County—			
13	Lineville Cheese Factory.....	Matthew DeHaan	Lineville.....	M. DeHaan

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TWENTY-SECOND ANNUAL REPORT

OF THE

STATE DAIRY COMMISSIONER

TO THE

GOVERNOR OF THE STATE OF IOWA

FOR THE YEAR 1908

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H. R. WRIGHT

STATE DAIRY COMMISSIONER

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PRINTED BY ORDER OF THE GENERAL ASSEMBLY

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EMORY H. ENGLISH, STATE PRINTER  
1909



STATE DAIRY COMMISSIONER

LETTER OF TRANSMITTAL

*To His Excellency, ALBERT B. CUMMINS, Governor of Iowa:*

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

Very respectfully,

H. R. WRIGHT,

*Food and Dairy Commissioner.*

Des Moines, November 17, 1908.

*Office of*  
STATE FOOD AND DAIRY COMMISSIONER.

H. R. WRIGHT, *Commissioner.*  
B. C. ILIFF, *Deputy Dairy Commissioner.*  
W. B. JOHNSON, *Asst. Dairy Commissioner.*  
J. J. ROSS, *Asst. Dairy Commissioner.*

EXPENSES OF DAIRY DEPARTMENT OF OFFICE OF FOOD AND DAIRY COMMISSIONER FOR THE YEAR ENDING NOVEMBER 1, 1908.

Commissioner's salary .....	\$2,000.00	
Commissioner's expense .....	302.91	\$ 2,302.91
Deputy's salary .....	1,400.00	
Deputy's expense .....	115.28	1,515.28
Assistant Dairy Commissioner's salary .....	1,400.00	
Assistant Dairy Commissioner's expense .....	940.79	2,340.79
Assistant Dairy Commissioner's salary .....	1,400.00	
Assistant Dairy Commissioner's expense .....	914.86	2,314.86
Clerk hire (Food and Dairy).....	1,000.00	
Clerk hire (Food and Dairy).....	900.00	1,900.00
Milk agent's fees .....	2,026.50	
Milk agent's expense .....	114.24	
Milk agent's special work .....	11.00	2,151.84
Office expenses .....	177.42	
Express, freight and cartage.....	213.05	
Telegraph and telephone.....	90.13	
	\$13,006.28	
Less salaries which are not paid from specific appropriation.....	8,100.00	
		\$ 4,906.28

## REPORT OF COMMISSIONER

The statute requires that the dairy commissioner shall make annually a statistical report covering the dairy business. Since this law was enacted, additional work has been given to this department in the enforcing of the:

PURE FOOD LAW,  
PAINT AND LINSEED OIL LAW,  
CONCENTRATED FEEDING STUFFS LAW,  
CONDIMENTAL STOCK FOOD LAW,  
AGRICULTURAL SEEDS LAW.

The volume of work undertaken in enforcing these laws is much larger than that originally undertaken by the dairy commissioner, but not of more importance. There are in the department sixteen office employees, two of which are known as assistant dairy commissioners, who devote their time exclusively to work among the creameries and the statistical and clerical work in relation to the administration of the dairy work of the department is, of course, largely undertaken by the office force. It will be understood that only a part of the time of the commissioner can now be given to the dairy work, so that the amount of effort which the office can devote to the work originally intended as the duty of the dairy commissioner is lessened by the addition of other duties much greater in volume than those originally undertaken. These facts are here stated in the hope that they will be taken into account by the legislature and the dairy force strengthened at the coming session by the authorization of additional assistant dairy commissioners.

No extraordinary changes have taken place in the past year in Iowa dairy conditions. The usual large amount of butter has been produced. The ascendancy of the central plants is a little more marked than formerly and the competition between them and the local creameries is keener than before. The number of creameries on the list has decreased from 594 to 552, and there have been only a few plants built, except in the case of rebuilding of old and well established plants.

There has been little or no improvement in the quality of cream shipped by rail and almost the same is true of that delivered in other ways to the creameries of every kind. The greatest problem now confronting the maker of butter in this state is to get to his factory that quality of milk and cream from which it is possible to make butter of the high grade demanded by the markets everywhere and it has seemed almost impossible to achieve any great improvement in the raw material received.

The creameries of the state make approximately 100,000,000 pounds of creamery butter annually which has an aggregate value of nearly or quite \$25,000,000. About one-third of this amount of butter, 32,000,000 pounds, is produced in thirty-four creameries of the state, which operate generally upon the plan of shipping cream to central points to be churned. These creameries make from 300,000 pounds to 6,000,000 annually each. The remaining 68,000,000 pounds of butter is manufactured in 468 creameries, which also operate about fifty skimming stations. More than 100,000 patrons and nearly 800,000 cows are tributary to the butter-making plants of the state. While the tables of this report show an increase of perhaps 10,000,000 pounds of butter made in the last year as compared with the year previous, such increase is probably due to favorable season and other minor contributing causes rather than to any permanent or extraordinary factors which would indicate continuous increases for the future. The production of butter in this state is one of the settled and permanent lines of industry for the farm and will be subject to temporary increases and decreases just as other farm crops or products fluctuate from season to season.

The state now has three condensed milk factories, located at Waverly, West Liberty and Perry and each is doing a successful business. Other such plants are in prospect.

#### ASSISTANT DAIRY COMMISSIONERS.

The state has been fortunate in the character and ability of the men who have successively held office as assistant dairy commissioners, and the effectiveness of the work has been the greater by reason of the activity and interest shown by them. But the kind of work done by them as well as the amount of it does not seem to be well understood. Frequent requests come to this department

asking for the services of the assistant for a week or ten days at a time. It is impossible to attempt to meet such demands upon their time. It was never intended that the assistants should take the place of the dairy school and give a buttermaker a course of instruction, nor that he should wholly train a new creamery manager or secretary, nor that he should attempt to canvass the patronage of the creamery and try to remedy difficulties that are continuously met in every creamery and which ought to be handled by the creamery management without outside help. Such work might be very desirable, both from the standpoint of the creamery and of the dairy business generally, but with but two men at work among 552 creameries it is an evident physical impossibility for the assistants to stay any extended length of time at any one plant.

This department is required by statute to enforce certain laws of the state, which duty cannot well be avoided or postponed. Also the department is in receipt of numerous and constant requests for assistance in solving occasional and unusual problems, and with the limited force at command it is not possible to even get to all the plants in a year's time, much less do any extraordinary amount of work for each. It, therefore, happens, that the department is embarrassed by inability to comply with some of the requests made, and by the further fact that we are obliged to discriminate against some plants in the furnishing of assistance for the simple reason that we have two men to do the work that could scarcely be accomplished by four. This is a situation for which the commissioner and assistants are not at all responsible.

There are 342 creameries which have been visited by one or the other of the assistant commissioners and help of some kind given them, but there are 203 creameries and 49 skimming stations that have not even been seen by the assistants, a condition which the department very much regrets.

Upon such visits to the creameries the assistant commissioners have instructions to see the buttermaker and the manager of the business end of the creamery, and to give to both the best assistance and advice that is possible. Also to see that the statutes of the state are complied with and if necessary to bring prosecutions for violation. It is evident that this work cannot, for lack of men and time, extend to the producer of milk or cream, though such work would be extremely desirable and valuable to the industry and to the state, but it cannot be undertaken without considerable increase of men and money.

A considerable number of complaints of low over-run have been investigated and the discovery made that the sampling by haulers of cream was at fault, resulting in tests that were too high. The sampling of cream is of such importance in the matter of testing that it ought to be checked up by the buttermaker and the over-run secured at the churn compared with that secured upon the books of the creamery secretary or manager.

The state has a very considerable number of old creamery buildings that have fallen into decay to a greater or less degree and the efforts of the assistants have been directed toward better creamery buildings, and especially towards better creamery drainage, not only because the laws require that creamery buildings and utensils shall be kept in a clean and hygienic condition, but because the best butter can only be produced in clean surroundings. Very great improvements have been noticed during the year along the line of creamery building and sanitation. The commissioner regrets that threats of prosecution seem to be the only way to compel sanitary practices in some plants and in some cases prosecutions have been undertaken by assistant commissioners and notice is here given that this practice will be followed with even more vigor than formerly.

The statute requiring the pasteurization of skimmed milk before returning the same to patrons seems to have been complied with by practically all of the few creameries still receiving milk, and but few prosecutions have been made for offenses under this law.

One prosecution of two counts has been made against a cream buyer at Gladbrook for manipulating the Babcock test. The exact offense charged was raising the test, evidently for the purpose of destroying competition and the buyer was very properly fined an aggregate of \$50 and costs. Numerous complaints of similar offenses have been made and some of them seem to have been well founded, but it has been impossible to secure satisfactory evidence to warrant prosecutions.

During the year the department has conducted an educational scoring contest of four numbers in addition to the State Fair Butter exhibit and the exhibit at the meeting of the State Dairy Association. The butter at each of these scorings, except that of the dairy association has been scored by the assistant commissioners and no small amount of effort has been put forth by them to make these scorings successful. Nearly seven hundred tubs of butter have been scored and careful criticisms made and sent to the respective makers of the exhibits in the hope that these criti-

cisms will be of value in the further improvement of their product. It is expected and intended that a similar scoring will be held during the next year.

#### QUALITY OF IOWA BUTTER.

From all over the country, without an exception, makers of butter and particularly dealers in this product are complaining that the butter which they now make is at least not better than that which they made three, or five, or ten years ago, notwithstanding increase in knowledge and ability of buttermakers generally, and notwithstanding the introduction of improved methods during the last decade. No part of the country that produces butter at all is free from this complaint, and in the last analysis of causes for the situation practically everybody has agreed that while there may be other reasons, the principal reason is the character of the raw material which comes to the creamery. Every butter producing state in the Union is giving great quantities of the poor grades of butter, so much so, that the markets of the country are always overstocked with undergrades and are always short on the higher and better grades. It is difficult, of course, to compare the quality of butter produced nowadays to that produced in the years gone by. It is perhaps true that the market is more critical; it is likely true that buttermakers, themselves, are demanding better results than formerly; it is possible that dairy schools and dairy instructors are keener in their criticisms than formerly, but at any rate, the demand for better quality of butter is universal on the part of producers, manufacturers, commission merchants, and, particularly, on the part of consumers.

In the last decade extraordinary efforts have been made by state authorities, and by dairy schools, in the direction of instruction of buttermakers along scientific lines. The thought has been often expressed that with buttermakers better trained for their work, and with greater knowledge of conditions from a scientific standpoint, a great improvement in the quality of butter would be noticeable. The efforts of these various forces has been very marked and great advances have been made in the directions as planned. Only once in a while is a buttermaker discovered that is not making about as good butter out of the material at hand as could be expected. The ability of buttermakers in this state has very greatly improved

without a corresponding improvement in the quality of the goods that they are able to produce, and it is quite evident that further improvement in their knowledge of buttermaking will not wholly solve the question of quality in the future any more than it has in the past.

Another line of effort to which considerable energy has been devoted has been the attempted education of creamery patrons by means of farmers' meetings, farmers' institutes, dairy associations, and the dairy press. Such efforts have been of very great value to the dairy industry in this state, but have brought results more along the line of cheaper methods of production and manufacture rather than in the direction of cleanliness and general improvement of the raw material and the resulting product.

It has also been seriously suggested that prosecutions by some state or other official, would be the solution of the problem. There are 552 creameries, and probably 3,000 cream buying stations in this state and more than 100,000 persons selling to them. It is quite evident that the enforcement of any such statute would require a small army of officials and such prosecutions could be directed only toward unwholesome and unclean products and not against those that were merely second or third class, but still fit for making butter. Convictions could be secured only in cases where the facts were out of the ordinary, and such prosecutions would not result in eliminating a good deal of the milk and cream from which now second and third grade butter is unavoidably made.

Efforts along the lines suggested above are extremely valuable and desirable and should not only be continued but if possible increased in volume, but the experiences of the past with these methods leads to the belief that they will in the future be inadequate in a very large degree and that some addition must be made to them if we are to make any considerable improvement in the quality of the butter manufactured in this state.

There is universal complaint on the part of good buttermakers and poor buttermakers alike, that the quality of milk and cream which comes to them has at least not shown any improvement and very likely in a good many places is less desirable than formerly. The introduction of the hand separator has changed our butter-making in this state from 10 per cent gathered cream to 80 or 85 per cent gathered cream. The less frequent delivery of the cream has resulted in a much poorer product from patrons who always did furnish a poor quality of product and from those patrons who

formerly could be depended upon to furnish a good quality of milk, now comes a quality of cream at least no better. It is quite evident that the fault lies not with the creamery management nor the buttermaker, it does not lie in any increased ignorance of the farmer, nor in any decreased activity of various persons in official capacities, but rather with the producer of the raw material. It is, therefore, logical to suppose that efforts towards improvement must be more largely directed to the farmer than they have been heretofore.

While the creameries of the west generally have not improved their quality of raw material, there are other lines of manufacture connected with the dairy industry that have succeeded in securing uniformly from their patrons a high grade of milk, milk that is clean and handled in such a manner that a high grade of product can be manufactured from it.

The condensed milk factories in various parts of the country have been uniformly successful in securing clean, sweet milk and the methods by which such character of raw material has been secured are worthy of investigation and adoption by a very large number of our creameries, and if so adopted, the food and dairy commissioner believes that the desired quality of raw material will be in most cases secured. While dairy schools and dairy authorities of every kind can be expected to render assistance, and very great assistance, in the direction of the desired result the experience of creameries, cheese factories, and condensed milk factories leads to the belief that the desired results will not be obtained except by persistent and continual effort on the part of the creamery management.

The plan pursued by the more successful condensed milk factories is as follows:

First, a formal contract between the management and the proposed patrons is entered into, which contract specifies the duties and obligations of each party to the same and upon the part of the patron who agrees to furnish milk from a definite number of cows; to provide clean barns; to care for his cows and to milk them in a cleanly manner; to use clean utensils for handling and transporting milk; and to keep the same in a clean milk house provided for that purpose, and to thoroughly cool the milk after each milking. He also agrees to permit inspection of his barns, cows, dairy utensils and appliances by representatives of the management and to take all needful pains for the production and delivery of a clean product.

Second, a system of inspection and instruction by a milk inspector employed by the factory, is persistently followed, an inspection of the milk as it arrives at the factory, and a further inspection of the dairies, cows and appliances of the patron.

From a theoretical standpoint, the foregoing plan is especially desirable and easy of adoption in any large co-operative creamery in the state. A competent person employed by the creamery to work among the patrons of the creamery would almost certainly insure a very considerable improvement in the quality of raw material furnished. The average creamery aside from the large central plants in this state, produce about 140,000 pounds of butter annually. An increase in the value of this product of a cent a pound would employ a person at \$100 a month for the year, so that the expense would almost certainly be easily provided for by the increase in price received for the improved butter, and such a man could easily more than earn his salary in the assistance, advice and instruction along other dairy lines that he might give to the patrons of the creamery; or the expense might be cut into by two adjoining creameries employing a man to work among their patrons as suggested above.

A cent a pound means \$1,000,000 annually to the milk and cream producers of the state. If such an increase can be secured by an expenditure of even half a million dollars, it ought to be undertaken. Everybody knows and acknowledges that such an increase in the value of Iowa's creamery butter is easily possible by improving the quality of the raw product which now comes to the factories. Experience has shown that the efforts of the buttermaker so long as he is confined to the creamery by his usual duties, are not effective in most cases in improving the quality of the product sent to him. The experience of the assistant commissioners and others who habitually go among the creameries leads to the conclusion that the improvement in quality can only be secured by giving some attention to the farmer on his farm, by insisting that better practices be followed by him. Creamery patrons of this state are so numerous that it is impossible to imagine any such effort being adequately provided for by legislation at state expense. It is eminently proper that such work should devolve solely upon the creamery and the farmers to whom the direct monetary benefit is sure to go, and the commissioner urges that the successful plans adopted and followed by the condensed milk factories in other states and this state be considered seriously with a view to their adoption by numerous creameries of Iowa.

### PRICES PAID FOR BUTTERFAT.

A very considerable number of complaints come to this office regarding the extremely high prices paid by various local creameries, and the allegation is made by the complainants that such high prices per pound of butterfat are only possible when cutting of tests is generally practiced. All such complaints have been carefully investigated, but in no case has there been any reasonable ground for suspicion of any irregularity in the matter of testing. As is well known, the co-operative creamery does not pay for butterfat with relation to the market on the exact day that the butterfat was received at the creamery. The prices paid by the co-operative creamery are dependent upon the prices received for the butter. For example, if the price of butter on the first day of May is thirty cents and on the tenth of May is only 25, it is quite evident that the co-operative creamery will be only able to pay on the basis of a twenty-five cent market rather than on a thirty cent market, because the butter could not get to market in time to gain the advantage of the higher price. Likewise on a rising market, the creamery will always receive more per pound than the market for the day upon which the butterfat was received, and this, by reason of the fact that approximately ten to fourteen days are necessary to ripen and churn the cream, get it to market, and sell it under present conditions. If there are cases where creameries have reduced the test in order to make the price for butterfat very high, this department has been unable to find them after a considerable effort in the way of investigating complaints of this character. In order to more fully illustrate the high prices possible to be legitimately paid by a local creamery under present conditions, there is given below a statement of the business of one of our moderate sized co-operative creameries for the butterfat received for September:

The average price of butter in New York for September was "creamery specials" 24 1-2 cents, and this creamery paid for butterfat 29 cents, which was a half cent more than they should have paid by reason of an error of the secretary amounting to \$83.03. The secretary in making up his books for the 20th of the month was obliged to estimate receipts on the last shipments and he made his estimate too high. If he had paid 23 1-2 cents, which he could have done and had a little money left, he would still have paid 4 cents more than the average of the market for the month. Whereas

the market for the twenty-five business days in September was 24 1-2, the market for the four days upon which he actually sold his butter was 25 7-8. This man sold half his butter at two cents premium and the other half at 2 1-2 cents premium—an average of 2 1-4 cents, so that he actually received for his butter an average of 28 1-8 cents. This advance of 3 5-8 cents over the market of 24 1-2 cents for September is 2 1-4 cents premium and 1 3-8 advance in the market from the time the fat was received till it was sold in New York. Further, the 2 1-4 cents premium on the butter sent to New York amounted to \$418.23. The overrun of 18.7 per cent or 3,000 pounds of butter had a value of \$847.50, which is more than all the expenses of the creamery added to the freight and commission.

That is to say this creamery received a price two and one quarter cents above the New York market for specials, and made one and three-eighths cents by reason of the fact that nearly two weeks elapsed from the time the butter fat arrived at the creamery until it was sold as butter in the market. The overrun more than paid all the expenses of the creamery, the freight on the butter to market and the commission for selling the same. The price paid was entirely warranted by the receipts, except the half cent error mentioned.

The following figures are not at all abnormal except by reason of the fact of the rising market and the gain occasioned by having this abnormality out of the question there is no reason why any well managed creamery making a high grade of butter may not duplicate this report and the relative prices paid any month in the year. If it does much less the management will do well to look for a leak somewhere, either in the quality of the butter and price obtained, or in the overrun secured, or in the expense bill.

REPORT OF AN IOWA CO-OPERATIVE CREAMERY FOR SEPTEMBER, 1908,  
BUSINESS.

Sales on	Market.	Selling Price.
September 18..... 78 tubs.....	24 c.....	20½c
September 25..... 73 tubs.....	24½c.....	20½c
October 5..... 77 tubs.....	27 c.....	20½c
October 18..... 81 tubs.....	28 c.....	20½c
	300 tubs.....	Av. 25½c
		Av. 28½c
Total sales in New York as above:		
300 tubs, net.....	\$ 4,055.32	Freight and commission.....
281 lbs. sold at home.....	272.93	
Buttermilk.....	26.00	
Surplus from previous month.....	35.10	
	\$ 5,079.95	
Making expenses.....	208.14	See below.....
	\$ 4,781.81	
Paid at 29 cents.....	4,501.81	
		\$ 208.14
Overdrawn.....	\$ 21.03	
Butterfat.....	10,568.4 lbs.	Pounds butter per tub.....
Butter.....	19,569 lbs.	Average premium.....
Overrun.....	18.7%	61.4 lbs.
		21 cents
Making expenses as follows:		
Tubs.....		\$ 83.72
Salt.....		12.00
Cireles, etc.....		12.00
Coal.....		39.00
Buttermaker.....		100.00
Officers.....		29.00
Sinking fund.....		41.42
		\$308.14

## OLEOMARGARINE.

The following table shows the production of oleomargarine for the United States for the last several years, ending in each case with June 30th. On July 1, 1902, the recent oleomargarine statute became effective and the measure of its effectiveness is shown by the rapid decrease of production. The gradual and steady increase of recent years is occasioned by the fact that makers of this article have been giving much attention to its sale and to the fact that the so-called uncolored oleomargarine nevertheless has a light yellow color and readily sells as butter.

## U. S. statistics of Manufacture of Oleomargarine.

1901 .....	104,943,856
1902 .....	126,316,472
1903 .....	71,804,102
1904 .....	48,071,480
1905 .....	49,880,982
1906 .....	53,146,459
1907 .....	68,988,639
1908 .....	79,107,273

At this writing, Nov. 1, 1908, there are 110 licensed dealers in uncolored oleomargarine in Iowa and doubtless before spring there will be as many more added to this number. The statute in this state prohibits the sale of oleomargarine if it has a yellow color. When the first sales of uncolored oleomargarine were made in this state in 1902 the dairy commissioner began a case against the Armour Packing Co., doing business in Des Moines and there selling so-called uncolored oleomargarine. The offense alleged was that the oleomargarine had a yellow color and that such sale was contrary to the statute. The sample purchased had not been artificially colored but nevertheless had a considerable yellow color and could easily have been sold for butter to any unwary purchaser. The case was hard fought both in the district court and in the supreme court and resulted in establishing the contention of the commissioner. Under this decision the sale in this state of oleomargarine having a yellow color is prohibited, no matter whether the color arises from some artificial added color or from the color of the fats of which the article is composed. Following this decision others of similar import have been secured in other states and the manufacturers have been making grades of uncolored oleomargarine almost or quite white for sale in states where the statutes are as strict as those of Iowa. The sale of such product has been greatly urged by the manufacturers and the number of dealers has very greatly increased under their efforts.

Very little oleomargarine is sold in this state during the summer but as soon as cold weather comes and the accompanying higher price for butter then the sale of oleomargarine begins and in localities assumes considerable proportions. The licenses issued are mainly for the larger cities as will be seen by the list below, but the smaller country communities also are beginning the sale of this product.

The following shows the location of the 110 licensees on record November 1, 1908.

Burlington .....	3
Cedar Rapids .....	13
Clinton and Lyons .....	12
Des Moines .....	13
Dubuque .....	10
Fort Dodge .....	3
Independence .....	5
Marshallown .....	2
Waterloo .....	15

The following towns have each two dealers: Ames, Cedar Falls, Coggon, New Hartford, Manchester.

The following towns have each one dealer: Belle Plaine, Baldwin, Central City, Colesburg, Delmar, Dennison, Grundy Center, Guttenberg, Hurstville, Iowa City, Iowa Falls, Lamont, Lost Nation, Masonville, Maquoketa, Olin, Onawa, Ottumwa, Parkersburg, Secyers, Winthrop, Wyoming.

From the above list it will be seen that the sale of oleomargarine is carried on in a number of towns that have been more or less famous for their creameries and the production of butter.

The dairy inspectors and the food inspectors of this department during the last winter visited all the establishments where oleomargarine was on sale and will do so as rapidly as possible the present season. Cases were brought against several dealers and fines assessed as follows:

Gus Heinrichs .....	Council Bluffs
E. Bill .....	Council Bluffs
Niels Pearson .....	Council Bluffs
Frank Peterson .....	Council Bluffs
John Schwinn .....	Sioux City
Hugh Bain .....	Sioux City
Nelson & Niebel .....	Ames

Other cases are pending at Council Bluffs, Sioux City and Emmetsburg.

Under the statute of Iowa the retailer of oleomargarine must sell it for what it is, he must furnish the buyer with a printed statement that the substance is a substitute for butter and giving the name and place of business of the manufacturer, and the substance itself may 'not have a yellow color.'



The U. S. statute requires also that the retailer shall have a license for which he pays at the rate of \$6 per year, and that after the package is wrapped up for delivery to the purchaser the seller shall print upon it with a rubber stamp the word OLEOMARGARINE and stating the weight of the same and his own name and business address. It is the intention of this department for the future as well as the practice in the past to insist that all these requirements shall be met by retailers of oleomargarine in this state. This department now has two dairy inspectors and six food inspectors and the force will easily call upon every licensed dealer of oleomargarine and make sure that the law is obeyed.

Persons interested in the sale of oleomargarine continue to make persistent efforts to arouse public sentiment to demand a repeal of the present oleomargarine statute of the United States. Dairy-men should not forget that the makers and dealers in this product are men of unlimited means, of greatest shrewdness, that they are able to command influence of the press and of various organizations by means unknown to the general public and that they have great monetary interests at stake and will use every effort to promote their own interests. They can be successfully opposed in their efforts for repeal of the statute by the united efforts of the creamery and dairy people of the country. The National Dairy Union has in the past served the general dairy interest faithfully and well and will continue so to do in the future but this organization can not succeed unless it is well backed by every one who wishes the sale of butter and substitutes for the same to continue on a basis free from fraud. The statistics of manufacture of oleomargarine quoted at the head of the paragraph well show the effect of the present law upon the fraudulent sale of oleomargarine and the only object of the repeal of the statute is to bring about the conditions that formerly prevailed.

The following table shows the number of pounds of creamery butter manufactured in the creameries of this state for the years as given, which year ends in each case July 1.

1897 .....	88,900,000
1898 .....	87,704,214
1899 .....	87,972,470
1900 .....	84,965,062
1901 .....	82,706,944
1902 .....	77,885,696
1903 .....	64,565,970
1904 .....	70,000,000

1905 .....	82,707,588
1906 .....	91,202,354
1907 .....	91,164,363
1908 .....	101,552,063

## COMPARISONS.

	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893
Total number of creameries and skim stations .....	801	954	987	1004	980	919	792	691	675	591	564	564	564	564	564	564	564
Ownership.																	
Individual .....	591	514	501	521	497	377	301	242	201	191	181	181	181	181	181	181	181
Co-operative .....	349	249	249	254	309	376	480	535	516	519	519	519	519	519	519	519	519
Stock company .....	27	81	115	105	102	195	135	119	132	83	87	109	109	109	109	109	109
State property .....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

## CITY MILK INSPECTION.

The growth of the city milk inspection in this state is indicated by the following table showing the number of permits for milk dealers issued in the years from 1896 to 1908. The years end in every case on the 4th of July:

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
Number .....	551	630	574	673	714	781	821	788	780	827	838	1009	1078

Cities	Pop. 1905	Inspectors
Burlington .....	25,218	Oscar C. Hoerr
Cedar Rapids .....	22,729	Dr. J. W. Griffith
Clinton .....	22,755	Charles B. Thomas
Council Bluffs .....	25,331	H. A. Lenoix
Davenport .....	32,791	H. J. High
Des Moines .....	75,026	J. P. Morey
Dubuque .....	41,941	Dr. P. J. Kennedy
Fort Dodge .....	14,211	D. C. Benjamin
Keokuk .....	11,500	Arthur J. Anderson
Marshalltown .....	12,047	Dr. E. M. Singleton
Muscatine .....	15,067	Dr. John Tillie
Ottumwa .....	20,181	E. B. Hill
Sioux City .....	40,952	O. M. Hanson
Waterloo .....	18,071	Theo. Peck
Total .....	394,737	

The law authorizing city milk inspection under the direction of the dairy commissioner was passed about twenty years ago and was intended to cover only the question of adulteration of milk and

cream by skimming or watering, a practice which was then quite prevalent. The results from inspections have demonstrated quite clearly that the adulteration of milk and cream in such senses are relatively infrequent. During the last five or six years considerable efforts have been made in the way of examining milk and cream for chemical preservatives and few such cases have been discovered, and almost no prosecutions along this line have been undertaken within the last twelve months. G. W. Andrews of Burlington, Iowa, was fined fifty dollars and costs for selling cream containing formaldehyde. It is believed that the use of chemical preservatives is extremely infrequent notwithstanding sensational newspaper articles to the contrary.

This department has neither money nor authority to inspect farms and herd barns from which milk comes to the fourteen cities named above, and hence the inspection has been restricted to sampling and examining the milk which is offered for sale on the streets and in the stores of these cities. It is possible to compel cleanly practices on the part of the last handler of the milk or cream, but all such efforts are idle and vain if the milk has been produced from diseased animals or if it has been kept in unclean cans and thereby contaminated with germs, perhaps of disease, and certainly filth. Ordinary examination of milk as it comes upon the market does not detect unwholesome contamination such as suggested above and indeed the detection of unwholesome bacteria in milk is extremely difficult and in some cases impossible even in the hands of an expert with the best of apparatus at command.

There has been no considerable improvement in the character of the milk supply in these cities during the last several years. While there are individual instances of progressive dairymen who have taken pains to make sure that their herds are free from disease and who have spent money and energy in fitting their barns for the production of clean milk, such practices have not been at all general, and very great improvement in this direction could be made by voluntary effort on the part of the dairymen. The experience of the department has been such as to lead to the belief that such improvement is not likely to occur by reason of voluntary effort especially in view of the fact that the public very generally declines to reward such efforts by increased patronage or by paying higher prices for such clean wholesome product.

During the last several years a very considerable interest has been taken by the public in the question of tuberculosis in cows, and

in general the knowledge of existing conditions has been much increased during the last twelve months. For example, the Board of Control of state institutions has had the state veterinarian test all the cows that are kept in connection with the several charitable institutions of the state, and the result has shown nearly one-third of these cows to be affected with tuberculosis and they have been destroyed. It is quite reasonable to suppose that a much too large proportion of cows from which milk is sold by dairymen in the various cities and towns of the state are affected with tuberculosis. At present there is no law requiring them to be tested, there is no law requiring dairymen to make certain that their milk is from healthy cows, and only in exceptional cases has such a test been made and the affected cows eliminated.

Persons competent to form judgment on the subject are almost though not quite unanimous in the belief that tuberculosis cows are a very dangerous source and means for the transmission of the disease to human beings, and such being the case it is extremely desirable from the standpoint of public health that all milk for consumption as such shall be from cows known to be free from tuberculosis. The tuberculin test is very simple and easy to apply, and repeated investigations have shown that as a means of diagnosis it is accurate more than ninety-eight times out of a hundred.

The stories of egregious blunders mad by veterinarians with this test are either not true at all or very greatly exaggerated. In the hands of a competent man the tuberculin test is almost absolutely accurate, perfectly harmless to a healthy animal and its application is quite inexpensive. The danger of transmission of this disease by means of milk is so great and the means of knowing whether the animals are free from it are so easy that it seems almost criminal not to require that milk sold at least in the cities where inspections are maintained shall be from cows free from the disease.

It is quite evident that if such requirements were made in the particular cities named above that in order that such a requirement may be enforced, that either some state or municipal office be created, for the express purpose of enforcing it. A statute of this kind will not enforce itself and it will be wholly a dead letter unless it is made some official's business to continually visit farms upon which milk is produced and to keep track of the herds and practices of the various dairymen.

It is also evident that if practices in the handling of milk on the farm and at the dairy are to be much improved, there must be some form of inspection at these dairies and some definite form of cleanliness which must be enforced upon the dairymen by an official inspector charged with this duty. The inspection now authorized by law and now carried out by this department comes far short of what it ought to be. The question of whether this inspection should be carried on by the municipalities themselves at their own expense or at the expense of the state as is now the case is a question for legislative decision but if inspection is to remain under the supervision of this department the following recommendations are made: First, that a statute be enacted requiring that milk offered for sale by city milk dealers be only from cows which have been tested and shown to be free from tuberculosis, such test to be made by the state veterinarian or under his authority and to be repeated at proper intervals. Second, that milk offered for sale by city milk dealers shall be required to be produced in clean barns, and to be handled in a cleanly fashion in every particular. Third, that authority and appropriation be given for employment of proper number of inspectors to give their time to inspecting not alone the milk as it comes upon sale in the cities, but also the barns and dairy utensils and apparatus used upon the farm to see that the statute is complied with. Fourth, that the inspector be required to score each dairy where milk is produced or store where milk is sold, in accordance with score card system adopted by the U. S. Department of Agriculture, and that the name of the dairyman and such score be published in the local newspaper for the information of the public.

If the system of local inspectors were continued and one or two general inspectors added to the force it is the belief that the production of clean, wholesome milk from healthy cows could be enforced.

On the other hand if it is deemed proper that the cities should be charged with this responsibility and expense, then it is the judgment of this department that a similar plan to that outlined above is both suitable and desirable with the municipalities. At any rate the conditions are such that additional legislation is necessary in order to insure proper sanitary inspection of milk in cities.

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

Month	Twelve months ending Nov. 1, 1908	Twelve months ending Nov. 1, 1909	Twelve months ending Nov. 1, 1910	Twelve months ending Nov. 1, 1911	Twelve months ending Nov. 1, 1912	Twelve months ending Nov. 1, 1913	Twelve months ending Nov. 1, 1914	Twelve months ending Nov. 1, 1915	Twelve months ending Nov. 1, 1916	Twelve months ending Nov. 1, 1917	Nov. 1, 1907 to Oct. 31, 1908
November	\$ .2395	\$ .2337	\$ .2300	\$ .2477	\$ .2419	\$ .2650	\$ .2317	\$ .2481	\$ .2550	\$ .2703	\$ .2735
December	.2290	.2191	.2225	.2510	.2583	.2425	.2425	.2480	.2480	.2514	.2387
January	.2010	.1975	.2050	.2322	2.025	.2700	.2370	.2010	.2050	.2081	.2029
February	.2042	.2100	.2000	.2050	.2050	.2000	.2317	.2218	.2700	.2700	.2323
March	.1571	.1977	.2071	.2215	.2343	.2343	.2152	.2202	.2715	.2715	.2349
April	.1980	.1968	.1900	.2000	.2325	.2725	.2251	.2008	.2188	.2009	.2375
May	.1580	.1730	.2012	.1900	.2275	.2200	.2012	.2271	.2017	.2511	.2309
June	.1657	.1388	.1900	.1907	.2150	.2100	.1812	.2000	.2025	.2350	.2359
July	.1687	.1875	.1900	.1900	.2151	.2011	.1727	.2375	.2075	.2181	.2313
August	.1800	.2000	.2100	.2000	.1900	.1940	.1703	.2111	.2297	.2488	.2224
September	.2025	.2225	.2150	.2110	.2171	.2570	.1911	.2008	.2428	.2751	.2383
October	.2225	.2400	.2100	.2300	.2328	.2100	.2005	.2184	.2011	.2015	.2372
Average value per lb. per year	\$ .1971	\$ .2005	\$ .2274	\$ .2105	\$ .2416	\$ .2417	\$ .2140	\$ .2448	\$ .2377	\$ .2282	\$ .2358

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

Counties	Number Reporting	Pounds of milk received	Pounds of cream received	Pounds of butter made	Pounds sold to patrons	Pounds sold in Iowa
Adair	2	228,480	3,378,200	1,078,112	96,007	84,943
Adams	2	895,080	895,080	281,058	6,129	2,000
Allamakee	8	7,500,007	1,087,378	1,087,378	24,429	52,021
Appanoose	9	7,006,848	1,057,378	1,500,300	60,239	17,288
Audubon	4	736,204	1,194,300	411,130	3,770	947
Benton	15	37,383,736	2,627,971	3,275,031	168,531	222,017
Black Hawk	3	882,343	374,444	1,948	1,948	2,324
Boone	24	71,469,797	300,328	3,267,522	844,321	110,622
Bremer	8	30,343,280	1,017,000	1,081,000	142,008	103,154
Buchanan	2	56,213	2,121,777	1,001,000	14,842	12,375
Buena Vista	12	24,320,097	2,401,200	2,177,428	154,040	70,137
Butler	5	1,073,505	5,488,500	1,000,000	19,120	11,377
Calhoun	5	104,500	5,234,731	1,505,000	13,826	34,440
Carroll	2	31,000	1,179,500	408,732	8,620	37,121
Cass	8	579,001	180,000	2,000	2,000	65,897
Cedar	4	1,284,514	4,228,778	1,268,225	14,210	114,952
Cerro Gordo	4	38,000	1,474,312	489,704	1,460	24,550
Cherokee	12	37,588,791	2,540,333	2,184,138	162,357	68,792
Chickasaw	5	4,223,125	2,218,743	1,088,710	49,215	18,303
Clarke	11	14,505,305	3,014,028	3,000,540	71,000	37,302
Clayton	3	2,306,339	1,000,007	495,522	11,220	1,921
Clinton	1	3,074,172	915,543	2,500		
Crawford	5	513,126	2,791,109	878,091	21,507	49,355
Dallas	10	42,404,010	5,830,006	3,602,108	184,032	170,540
Decatur	5	288,223	1,730,040	675,080	28,254	25,558
Des Moines	17	17,430,702	7,615,630	3,754,024	90,351	199,393
Dickinson	5	5,262,231	264,808	562,140	41,444	972
Emmet	20	52,843,116	4,332,971	2,000,000	240,927	164,774
Fayette						

TABLE SHOWING NUMBER POUNDS MILK RECEIVED—(CONTINUED.)

Counties	Number reporting	Pounds of milk received	Pounds of cream received	Pounds of butter made	Pounds sold to patrons	Pounds sold in Iowa
Floyd	6	1,337,073	3,217,443	897,317	40,190	43,023
Franklin	6	2,794,490	3,344,724	1,181,272	35,529	21,940
Fremont	1	865,233	82,938	53,223	1,133	2,845
Greene	1	13,951,830	2,851,198	1,499,893	75,395	37,832
Grundy	7	758,730	2,940,500	1,027,135	28,048	24,750
Guthrie	4	7,652,049	1,075,625	615,235	44,959	22,301
Hamilton	4	953,051	3,479,821	1,040,346	39,591	7,393
Hancock	9	2,450,788	4,708,410	1,579,600	59,490	37,955
Hardin	1					
Harrison	1					
Henry	7	5,926,222	3,700,080	1,157,750	35,150	9,733
Howard	7	2,428,166	2,931,544	917,434	39,638	8,438
Humboldt	1	709,759	275,999	275,999	7,099	
Ida	7	7,885,133	1,021,175	593,344	51,839	19,802
Iowa	12	5,543,015	6,734,582	2,022,254	39,079	51,434
Jackson	2	1,749,943	302,200	126,658	6,718	34,138
Jasper	2	738,050	1,210,427	491,328	7,480	44,383
Jefferson	11	13,751,509	11,535,068	4,325,402	176,151	116,140
Jones	1	18,708,442	459,000	119,000		
Kearney	18	12,708,442	5,005,260	2,008,150	100,335	50,279
Kossuth	1	2,114,331	816,297		102,400	
Lee	13	14,647,700	6,145,049	2,048,313	65,148	45,494
Linn	1					
Louisia	1					
Lucas	1					
Lyon	1					
Madison	2					
Mahaska	1					
Marion	4					
Marshall	4					
Mills	9					
Mitchell	9					
Monroe	1					
Montgomery	1					
Muscatine	1					
O'Brien	5					
Osceola	4					
Page	4					
Palo Alto	14					
Plymouth	5					
Pocahontas	5					
Polk	4					
Pottawattamie	1					
Poweshiek	5					
Ringgold	8					
Sac	2					
Scott	2					
Shelby	1					
Sioux	6					
Story	8					
Tama	2					
Taylor	3					
Union	1					
Van Buren	2					
Wapello	2					
Warren	1					
Washington	1					
Wayne	1					
Webster	7					
Winnebago	7					
Winnesick	15					
Woodbury	2					
Word	8					
Wright	4					
Total	501	518,786,576	309,337,000	101,522,083	3,440,680	5,546,350

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

Counties	Number of creameries reporting hand separators	Number of creameries receiving cream by rail	Hand separators reported	Number of creameries reporting patrons and cows	Number of patrons reported	Number of cows reported
Adair	3	2	1,130	5	1,150	8,230
Adams	6	3	412	5	430	3,394
Adair	3	2	1,386	5	1,794	12,883
Appanoose	8	2	1,278	9	1,448	10,941
Audubon	4	2	522	4	572	4,330
Black Hawk	11	9	756	15	1,941	17,338
Boone	3	2	590	3	573	3,330
Bremer	3	2	101	24	1,099	8,080
Buchanan	6	2	652	8	1,500	11,790
Buena Vista	2	2	1,104	6	1,149	9,114
Butler	14	2	555	18	3,811	14,120
Calhoun	5	2	1,661	5	2,022	14,565
Carroll	5	2	3,198	5	3,317	16,994
Cass	3	1	622	3	662	4,173
Cherokee	1	1	143	1	173	1,325
Cerro Gordo	4	2	1,300	4	1,938	13,091
Chickasaw	3	2	812	3	836	6,325
Clarke	2	2	901	2	1,791	16,317
Clay	8	2	977	8	1,140	7,773
Clayton	10	2	2,917	11	2,705	27,978
Clinton	1	1	336	3	374	3,945
Crawford	1	1	1,847	1	1,487	10,700
Dallas	5	3	948	5	1,106	7,837
Davis	1	1				
Decatur	1	1				
Delaware	18	1	1,513	10	2,671	22,532
Des Moines	15	3	4,541	17	6,328	46,730
Dickinson	5	1	388	6	451	4,302
Dubuque	5	1	584	5	601	4,335
Emmet	6	1	454	6	451	4,302
Fayette	9	1	835	30	2,795	24,235
Floyd	6	1	900	6	900	6,423
Franklin	6	1	1,384	6	1,580	10,974
Fremont	8	2	105	1	147	1,050
Greene	8	2	822	8	1,200	10,701
Grundy	7	2	1,100	7	1,307	9,430
Guthrie	4	1	439	4	803	5,872
Hamilton	7	3	850	7	979	8,527
Hancock	9	1	1,300	9	1,496	10,899
Hardin	1	1				
Harrison	1	1				
Henry	6	1	798	7	1,307	7,980
Howard	7	1	949	7	1,037	8,384
Humboldt	1	1	210	1	219	1,990
Ida	1	1	395	7	719	5,133
Iowa	13	2	1,427	19	1,745	13,215
Jackson	2	2	111	2	181	1,308
Jasper	2	1	622	2	622	3,497
Jefferson	11	4	3,115	11	3,384	29,073
Johnson	1	1	160	1	160	1,008
Jones	17	1	1,323	18	1,784	14,047
Kearney	1	1	1,300	1	1,550	10,850
Kossuth	10	2	2,452	13	3,165	6,718
Lee	1	1				
Linn	1	1				
Louisia	1	1				
Lucas	1	1				
Lyon	1	1				
Madison	2	2	410	2	608	3,094
Mahaska	1	1	300	1	400	1,500
Marion	3	2	607	4	867	6,074
Marshall	9	2	781	9	1,722	11,928
Mills	1	1				
Mitchell	9	1				

TABLE SHOWING NUMBER HAND SEPARATORS, ETC.—(CONTINUED.)

Counties	Number of re- porting hand separators	Recepted cream by rail	Hand separa- tors reported	Number of re- porting pat- rons and cows	Number of pat- rons reported	Number of cows reported
Monona	1	1	115	1	1,119	800
Monroe	1	1	100	1	106	965
Montgomery				1	181	1,300
Muscotiny				5	735	5,258
O'Brien	5	2	716	5	528	2,853
Osceola	4	1	498	4	3,000	17,300
Page	1	1	8,000	1	1,387	11,823
Palo Alto	14		704	14	961	8,307
Plymouth	5	2	532	5	607	3,323
Pocahontas	5	2	961	5	1,019	8,307
Polk	4	3	7,012	4	8,738	61,130
Pottawattamie	1	1	400	1	450	3,240
Poweshiek	5	3	1,049	5	1,118	7,221
Ringgold				8	900	7,015
Sac	8	2	900	2	545	4,080
Scott	2	2	500	2	885	5,349
Shelby	7	1	885	7	922	5,349
Sioux	5		2,004	6	1,542	13,440
Story	8	1	733	8	1,067	7,250
Tama	3	1	325	3	352	2,160
Taylor	2	2	1,310	2	2,010	13,472
Union	1		350	1	2,040	10,150
Van Buren				2	1,250	10,075
Wapello	2	1	1,250	2	1,228	10,075
Warren				1	140	1,008
Washington	1	1	130	1	1,050	11,500
Wayne	1	1	1,200	1	1,148	6,000
Webster	1	1	1,000	1	1,148	6,000
Winnebago	6		707	7	1,209	12,576
Winnesick	12		1,509	12	2,529	19,967
Woodbury	2	2	8,611	2	8,811	68,439
Worth	2	1	703	2	803	6,580
Wright	4	1	830	4	955	7,271
Total	442	07	81,703	500	108,638	792,508

TABLE SHOWING NET POUNDS OF BUTTER SHIPPED OUT OF THE STATE, AS REPORTED BY THE RAILROADS, FOR THE YEAR ENDING SEPTEMBER 30, 1908, COMPARED WITH SIMILAR STATEMENTS FOR THE YEAR ENDING SEPTEMBER 1907.

Counties	1907	1908	Increase	Decrease
Adair	973,506	1,303,748	330,182	
Adams		95,639	95,639	
Allamakee	1,073,193	1,618,520	545,327	
Appanoose	15,808	42,051	26,243	
Arden	1,194,906	1,475,384	280,478	
Benton	841,750	453,237	388,513	
Black Hawk	969,071	1,052,444	83,373	
Boone	115,350	301,647	186,297	
Bremer	2,773,412	3,475,121	701,709	
Buchanan	1,356,103	1,660,219	304,116	
Buena Vista	1,153,079	1,000,634	152,445	
Butler	1,722,565	2,185,300	462,735	
Calhoun	1,400,618	1,643,100	242,482	
Carroll	1,288,055	1,740,307	452,252	
Cass	933,270	540,640	392,630	
Cedar	177,735	733,708	555,973	
Cerro Gordo	1,185,233	1,524,225	338,992	
Cherokee	658,460	328,451	330,009	
Chickasaw	2,056,017	2,105,415	49,398	
Clarke	11,051	7,892	3,159	
Clay	635,814	835,333	199,519	
Clayton	3,418,308	3,073,233	345,075	
Clinton	1,019,190	1,738,048	718,858	
Crawford	942,591	1,195,338	252,747	
Dallas	937,224	650,530	286,694	
Davis	840	24,948	24,108	
Decatur	400	528,500	528,100	
Delaware	3,729,236	3,981,054	251,818	
Des Moines	259,284	115,020	144,264	
Dickinson	523,516	427,877	95,639	
Dubuque	3,223,190	3,229,029	5,839	
Emmet	771,480	570,585	200,895	
Fayette	2,517,736	2,710,002	192,266	
Floyd	701,750	619,377	82,373	
Franklin	638,481	695,639	57,158	
Fremont	5,716	6,300	584	
Greene	80,232	107,477	27,245	
Grundy	895,148	816,346	78,802	
Guthrie	864,650	992,815	128,165	
Hamilton	874,914	1,244,005	369,091	
Hancock	283,634	545,241	261,607	
Hardin	1,728,303	1,638,010	90,293	
Harrison	20,728	38,910	18,182	
Henry	23,000	22,509	491	
Howard	794,768	1,030,951	236,183	
Humboldt	634,712	683,240	48,528	
Ia	377,505	240,105	137,400	
Iowa	246,720	280,510	33,790	
Jackson	1,522,507	1,113,726	408,781	
Jasper	129,772	113,722	16,050	
Jefferson	124,264	146,646	22,382	
Johnson	21,679	24,618	2,939	
Jones	4,620,275	5,812,705	1,192,430	
Keokuk	40,000	20,500	19,500	
Kossuth	1,728,215	1,654,957	73,258	
Lee	3,606,818	2,105,078	1,501,740	
Linn	1,007,820	1,719,490	711,670	
Louisia	4,217	4,161	56	
Lucas		30,853	30,853	

Counties	1907	1908	Increase	Decrease
Lyon	523,446	596,610	73,164	-----
Madison	3,561	8,322	4,761	-----
Mahaska	184,541	296,981	102,440	-----
Marion	135,063	213,589	78,526	-----
Marshall	333,073	433,236	100,163	-----
Mills	8,335	4,082	-----	4,253
Mitchell	1,673,441	1,447,099	-----	227,342
Monona	231,700	300,908	69,208	30,792
Monroe	33,474	59,800	26,326	-----
Montgomery	-----	7,374	7,374	-----
Muscatine	29,632	37,632	8,000	-----
O'Brien	416,828	631,038	214,210	-----
Oceola	312,949	493,699	180,750	-----
Page	644,064	743,830	99,766	-----
Palo Alto	1,147,332	1,230,973	83,641	-----
Plymouth	716,373	839,340	122,967	-----
Pocahontas	480,391	633,397	153,006	-----
Polk	4,700,894	4,123,972	-----	576,922
Pottawattamie	5,473	949,045	943,572	-----
Poweshiek	274,375	450,233	175,858	-----
Ringgold	499	63	-----	436
Sac	633,747	704,713	71,966	-----
Scott	1,577,194	1,604,414	27,220	-----
Shelby	504,279	604,018	99,739	-----
Sioux	1,845,873	1,807,636	-----	38,237
Story	1,637,671	1,232,233	-----	405,438
Tama	334,755	211,248	-----	123,507
Taylor	1,304,194	1,554,537	250,343	-----
Union	1,235,336	1,311,306	75,970	-----
Van Buren	18,330	16,574	-----	1,756
Wapello	633,332	711,499	78,167	-----
Warren	945	937	-----	8
Washington	96,629	130,330	33,701	-----
Wayne	226,743	733,725	506,982	194,023
Webster	656,531	323,506	-----	333,025
Winnebago	1,343,328	1,433,331	90,003	-----
Wineshiek	1,896,537	1,631,062	-----	265,475
Woodbury	5,965,465	6,061,460	95,995	215,444
Worth	1,323,330	936,578	-----	386,752
Wright	1,113,397	1,150,732	37,335	-----
Totals	92,173,776	98,979,991	6,806,215	5,029,335
Net Increase	6,796,215	-----	-----	-----

TABLE SHOWING TOTAL NET BUTTER SHIPMENTS OF THE STATE FOR THE YEARS 1890 TO 1908 INCLUSIVE, FROM IOWA TO POINTS OUTSIDE THE STATE; ALSO INCREASE OR DECREASE AS COMPARED WITH THE YEAR PRECEDING.

Years Ending October 1st.	Net pounds of butter shipped	Increase over preceding year	Decrease from preceding year
1890	71,355,796	-----	-----
1891	98,639,719	27,283,923	-----
1892	60,113,321	-----	38,526,398
1893	54,673,909	-----	5,440,412
1894	54,597,437	-----	16,876
1895	62,497,193	7,899,756	-----
1896	80,032,916	17,535,723	-----
1897	83,030,081	2,997,165	-----
1898	75,394,337	-----	8,635,744
1899	79,629,333	4,235,096	-----
1900	71,719,329	-----	7,910,004
1901	74,323,995	2,604,666	-----
1902	72,714,534	-----	1,609,461
1903	77,079,794	4,365,260	-----
1904	75,339,300	-----	1,740,494
1905	91,931,551	16,592,251	-----
1906	98,134,097	6,202,546	-----
1907	92,174,776	-----	6,009,321
1908	98,979,991	6,796,215	-----

## CREAMERY LIST

\*Receive Cream by Rail.  
†Skim Station.

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>Adair County—</b>				
1	Adair Co-op. Cry. Co.	M. L. McManus	Adair	C. E. McIntire
2	Arbor Hill Co-op. Cry. Co.	C. C. Pease	Stuart	E. C. Lamoree
3	Blue Grass Cry. Co.	A. L. Stewart & Co.	Fontanelle	W. F. Stewart
4	Blue Grass Cry. (Fish)	A. L. Stewart & Co.	Fontanelle	
5	Blue Grass Cry. (Canby)	A. L. Stewart & Co.	Fontanelle	
6	Blue Grass Cry. (Greenfield)	A. L. Stewart & Co.	Fontanelle	
7	Blue Grass Cry. (Orient)	A. L. Stewart & Co.	Fontanelle	
8	Blue Grass Cry. (Bridge-water)	A. L. Stewart & Co.	Fontanelle	M. N. Bates
9	Greenfield Cry. Co.	Jas. F. Laude	Greenfield	J. D. Main
<b>Adams County—</b>				
10	Fars. Mut. Co-op. Cry. Co.	F. A. Outhier	Prescott	A. H. Ady
11	Mt. Etna Co-op. Cry. Co.	A. C. Peterson	Mt. Etna	A. Mc Cartney
12	Nevinsville Fars. Co-op. Cry. Co.	R. H. Gregory	Nevinsville	C. E. Wallace
<b>Allamakee County—</b>				
13	Dorchester Fars. Mut. Cry. Co.	R. W. Tartt	Dorchester	L. B. Olson
14	Calhoun Cry. Co. (Lansing)	P. E. O'Donnell	Church Rl.	K. V. Ferris
15	Postville Fars. Co-op. Cry. Co.	F. H. Welzel	Postville	Jas. A. Gordon
16	Fars. Coop. Cry. & Cond. Co.	J. T. Bjarke	Warterville	F. W. Hessel
17	Ludlow Co-op. Cry. Co.	Wm. F. Goebel	Waukon Rl.	W. P. Muth
18	Artic Spring Cry. Assn. (Quandahl)	O. C. Flatberg	Minn. Spring Grove	I. O. Langlie
19	Fars. Co-op. Cry. Co.	J. L. White	Waukon	Fred Fielt
20	New Albin Co-op. Cry. Co.	R. G. May	New Albin	E. Rice
<b>Audubon County—</b>				
21	Sharon Creamery (Sharon)	Chris Moller	Audubon Rl.	M. Anderson
22	Oakfield Twp. Sep. Cry. Co.	Hans Nymand	Brayton Rl.	J. C. Nielsen
23	Audubon Twp. Creamery Co.	L. P. Nelsee	Exira R2	L. P. Nielsen
24	West Hamlin Sep. Cry. Co.	Fred G. Gierloff	Exira R2	J. Johansen
25	Exira Cry. Co.	Chris C. Nelson	Exira	C. C. Nelson
26	Blue Grass Cry. Co.	R. W. Mullenger	Hamlin	Fred Hellemann
27	Danish Sep. Cry. Co.	Peter Lykke	Kimballton	Peter Thuesen
28	Liberty Creamery (Manning)	L. T. Larson	Irwin Rl.	Elias Jensen
29	Ross Creamery (Ross)	Frandsen & Olson	Linn Grove	Jos. Starr
<b>Benton County—</b>				
30	Blairstown Creamery	Chas. Hanbold	Blairstown	Chas. Hanbold
31	Norway Creamery	M. B. Hershey	Norway	M. B. Hershey
	New Hall Creamery	Gardemann & Junglaus	New Hall	J. H. Huyek
32	Urbana Creamery Co.	Jas. Romine	Urbana	Jas. Romine
33	Van Horne Creamery Co.	C. H. Hartung	Van Horne	J. A. Barker

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>Black Hawk County—</b>				
34	La Porte Co-op. Cry. Co.	C. B. Gingerich	La Porte City	Oscar Harvey
35	Crain Creek Cry. Co.	Wm. Meier	Denver Rl.	Wm. Meier
36	Great Western Cry. Co.	Wm. Widdell	Denver	J. Tegtmier
37	Farmers Creamery Co.	G. S. Kleckner	Dunkerton	O. G. Alexander
38	Eagle Center Dairy Assn.	D. G. Lichty	Waterloo	J. E. McCaffroy
39	East Lester Cry. Co.	L. B. Duffy	Janesville	C. E. Brant
40	Union Creamery (Finchford)	T. E. Holland	Janesville	J. A. Leverich
41	Hudson Co-op. Dairy Assn.	C. H. Brandhorst	Hudson	W. J. Smith
42	Mt. Vernon Cry. Co. (Boies)	Geo. H. Moeller	Denver	I. R. Moon
43	Jubilee Co-op. Cry. Co.	F. J. Orth	Jesup Rl.	A. J. Widdell
44	Red Bird Cry. Co.	A. J. Minish	Voorhies	N. F. Hammel
45	Gilbertville Dairy Assn. (Gilbertville)	J. B. Kascht	Waterloo 1077 La Fayette St.	J. L. Clark
46	Fars. Dairy Assn.	Sam'l Swaltzer	Waterloo	R. W. Chadwick
47	Black Hawk Creamery Co.	Erick Peterson	Cedar Falls	C. C. Alexander
48	Cedar Falls Cry. Co.	Brandes & Riedel	Cedar Falls	A. J. Frees
49	Benson Dairy Co. (Benson)	Wm. Morgan	Cedar Falls	F. Ballantyne
<b>Boone County—</b>				
50	Fars. Co-op. Cry. Co.	M. P. Peterson	Story City	L. C. Peterson
51	Dodge Fars. Mut. Co-op. Cry. Co.	L. J. Bremsen	Boone R3	L. J. Bremsen
52	Madrid Cry. Co.	Westerberg & Clark	Madrid	H. G. Clark
53	Boone Creamery	F. P. Westerberg	Boone	A. A. Anderson
<b>Bremer County—</b>				
54	Bremer Cry. Co.	H. L. Kelley	Waverly R3 Plainfield Rl.	W. Kallenbach C. H. Wedemeyer
55	Western Douglas Cry. Co.	Carl Oberhen	Sumner R7	Fred Willis
56	Little Valley Cry. Co.	Chas. Krueger	Cedar Falls	C. H. Eich
57	Farrington Cry. Co.	F. Gaston	Denver	J. Wedemeyer
58	First Maxfield Cry. Co.	Wm. Millus	Frederika	Cecil E. Carr
59	Frederika Cry. Assn.	J. H. McDonald	Dunkerton R2	C. H. Rohrsen
60	Klinger Cry. Co.	C. H. Rohrsen	Readlyn R1	F. H. Wehling
61	Maxfield Cry. Co.	J. Strottmann	Sumner	C. Wedmeier
62	Climax Cry. Co.	Henry Specht	Sumner	C. L. Mills
63	Excelsior Cry. Co.	H. E. Wutke	Sumner	F. M. Zell
64	Sumner Cry. Co.	S. A. Munger	Tripoli R2	H. J. Hankner
65	Fremont Cry. Co.	E. C. Fink	Tripoli	Wm. Ambrose
66	Potters Sliding Cry. Co.	H. Willbrandt	Tripoli	F. C. Oltrogge
67	Tripoli Cry. Co.	J. C. Koch	Waverly R2	E. H. Hohmann
68	Artesian Cry. Co.	C. C. Traetow	Waverly	H. Piegors
69	La Fayette Cry. Co.	Emil Walther	Waverly R2	D. Borterman
70	Washington Cry. Co.	E. J. Thies	Waverly R2	Wm. Lenius
71	Seigel Cry. Co.	H. F. Moeller	Waverly R2	F. D. Daniels
72	Grove Hill Cry. Co.	J. A. Neil	Sumner	Fred Bremer
73	Spring Fountain Cry. Co.	Joe Volker	Readlyn	H. A. Griese
74	Readlyn Co-op. Cry. Co.	Rudolph Tiedt	Janesville	B. O. Squires
75	Janesville Cry. Assn.	H. W. Stine	denised Milk Company	R. A. Neely
76	Waverly Plant of Northern Condensed Milk Company	R. A. Neely	Phl. 138.Fron	Ino. Wehling
77	Dayton Cry. Co.	G. C. Schwake	Sumner	H. C. Ladage
78	Plainfield Cry. Co.	H. C. Ladage	Plainfield	

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary of Manager	Name of Buttermaker
Buchanan County—				
79	Aurora Cry. Co.		Fairbank	W. A. Rizer
80	Fairbank Fars. Cry.		Newell	W. Peterson
81	Hazleton Fars. Cry. Co.	L. Gerstenberger	Hazleton	F. W. Strong
82	Jesup Cry. Co.	C. L. Bright	Jesup	E. A. Harvey
83	Lamont Cry. Co.	J. D. Thompson	Lamont	F. Stephenson
84	Stanley Creamery	Adam Kiefer	Hazleton	Geo. L. Coyle
85	Otterville Cry. Co.	Geo. M. Vincent	Independence	C. S. Payne
87	Waspie Valley Cry. Co.	I. S. Hutton	Independence	Jno. Soules
87	Waspie Valley Cry. Co. (Quasqueton)	I. S. Hutton	Independence	
88	Waspie Valley Cry. Co. (Littleton)	I. S. Hutton	Independence	
	Winthrop Creamery	W. F. Miner	Winthrop	W. F. Miner
Buena Vista County—				
89	Fairfield Cry. Co.	D. F. Petterson	Albert City	Emil Krause
90	Coon River Co-op. Cry.	E. F. Kruse	Newell	J. F. Sharp
91	Fars. Co-op. Cry. Co.	C. P. Cornelussen	Alta	Henry Allen
92	Newell Cry. Co.	Geo. L. Ellison	Newell	J. E. Lauridsen
93	Rembrandt Cry. Co.	O. J. Hegna	Rembrandt	N. O. Swenson
94	Linn Grove Cry.	A. M. Frandsen	Linn Grove	N. C. Olson
Butler County—				
95	Aplington Cry. Co.	R. Meyer	Aplington	C. Wisbar
96	White Rose Cry.	S. Patterson	Austinville	S. Patterson
97	Allison Cry.	Jno. B. Kenchie	Allison	Greene
98	Fars. Co-op. Cry. Co.	Edw. Palmater	Greene	J. Jacobsen
99	Clarksville Cry. Co.	H. M. Crocker	Clarksville	H. M. Crocker
100	Monroe Central	G. A. Palmer	Aplington	G. A. Palmer
101	Kesley Cry. Co.	H. Patterson	Kesley	H. Patterson
102	Beaver Cry. Co.	Peter Larson	New Hartford	Peter Larson
103	Parkersburg Cry. Co.	W. S. Mead	Parkersburg	Geo. Johnson
104	Parkersburg Cry. Co. (Shellclair)	W. S. Mead	Parkersburg	
105	Shell Rock Cry. Co.	M. J. Johnson	Shell Rock	M. J. Johnson
106	Courbat Cry. Co.	O. F. Courbat	Shell Rock	O. F. Courbat
107	Victory Cry.	A. B. Shadbol	Waverly	E. F. Miller
108	Walkers Cry.	A. B. Walker	Shell Rock	A. B. Walker
109	Northern West Point Cry. Co.	H. Dehmer	Greene	F. H. Fisher
110	Albion Co-op. Cry. Co.	E. S. Philo	New Hartford	K. T. Naa
111	Bristow Cry.	Jas. P. Johnston	Bristow	
112	Packard Cry. & Produce Co.	Geo. W. Hobson	Packard	R. Holcomb
113	New Hartford Fars. Co-op. Co.	Louis B. Ensign	New Hartford	H. C. Koencke
114	Dairy City Cry. Co. (Sinclair)	Mrs. L. Andrews	Manchester	
Calhoun County—				
115	The Farmers Co-op. Mutl. Cry. Assn.	C. W. Jewell	Lake City	Chris Sorenson
116	Manson Creamery	H. A. Moon	Manson	C. G. Moon
117	Andrew Wood Cry.	F. H. Allan	Rockwell City	L. Larsen
118	Somers Cry. Co.	F. A. Whitney	Somers	Ben Frank
119	Pomeroy Cry. Co.	H. A. Albrecht	Pomeroy	C. P. Allard
Carroll County—				
120	Fars. Co-op. Cry. & Supply Co. (Arcadia)	Chas. Harding	Omaha	T. G. Hanna
121	Coon Rapids Cry.	Fred S. Davis	Coon Rapids	Fred S. Davis
122	Rose Valley Cry.	C. Kohorst	Carroll R4	C. Kohorst
123	Templeton Cry. Co.	Geo. Bierl	Templeton	Herman Lang
124	Fairmont Cry. Co. (Manning)	E. P. Howe	Omaha, Nebr.	R. B. Cavett
125	Halbur Cry.	M. J. Wagner	Halbur	

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Cass County—				
126	Fars. Mutual Co-op. Cry. Co.	P. Pettinger	Cumberland	Albert Heya
127	Pioneer Cry. Co.	E. M. Bourne	Wiota	E. P. Wolf
128	Atlantic Produce Co.	G. G. Jeck	Atlantic	A. E. McClure
Cedar County—				
129	Golden Star Cry.	W. H. Kroeger	Bonnett	W. H. Kroeger
130	Home Cry.	G. F. Reinking	Lowden	
131	West Branch Cry.	Eves & Elliott	West Branch	Lewis Elliot
Cerro Gordo County—				
132	H. D. Bickel Produce Co.	M. V. Bickel	Mason City	W. K. Pollard
133	Sunny Side Cry.	J. C. Mortensen	Thornton	Carl Larsen
134	H. B. Higley Co.	C. O'Keefe	Mason City	N. H. Knudsen
135	Fars. Mutual Co-op. Cry. Co.	T. E. Palmeter	Clear Lake	Guy Thomas
	Meservey Cry. Co.	H. K. Fals	Meservey	
Cherokee County—				
136	White Rose Cry.	J. E. Austin	Marcus	H. E. McCormack
137	Washta Cry.	fas. Robertson, Jr	Washta	M. J. Goodnow
138	Cherokee Cry.	fas. P. Younger	Chicago, Ill.	F. R. Palmer
Chickasaw County—				
139	Boyd Farmers Cry.	J. DeBettigmes	New Hampton	
140	Alta Vista Fars. Cry.	Albert Tietjen	Alta Vista	M. J. Donovan
141	Devon Fars. Cry.	Geo. B. Lofty	New Hampton	O. H. Buehrer
142	Deerfield Cry. Co.	Wm. Smith	Route 4	Chas. Zeilrath
143	Fredericksburg Butter Factory	C. L. Whitcomb	Fredericksburg	H. E. Forrester
144	Ionla Fars. Cry. Assn.	H. B. Young	Ionla	F. W. Stickman
145	Lawler Cry.	P. J. Cooney	Lawler	F. A. Zeligler
146	New Hampton Fars. Cry. Assn.	J. W. Krieger	New Hampton	C. L. Woodworth
147	Fars. Co-op. Cry. Co.	E. V. R. Hall	Route 2	E. E. Simpson
148	Williamstown Cry.	H. S. Keransen	Fredricksburg	L. L. Flick
149	Jerico Co-op. Cry.	Thos. Attleson	burg R4	Inger
150	Saude Co-op. Cry.	H. O. Natvig	Lawler R7	Jno. Finnegan
151	Riverside Cry.	J. W. Cagley	Cresco R7	G. F. Landquist
Clay County—				
152	Fars. Co-op. Cry. Co.	Jno. J. Lawler	Dickens	W. A. Snyder
153	Fostoria Cry. Co.	N. C. Nielsen	Fostoria	N. C. Nielsen
154	Royal Cry. Co.	Adolph Christensen	Royal	A. Christensen
155	Fars. Co-op. Cry. Co.	Jno. Hopkins	Langdon	W. A. Tlayer
156	Spencer Cry. Co.	J. W. Cory	Spencer	W. F. Battin
157	Webb Cry.	J. A. Reid	Webb	J. A. Reid
158	Everly Cry.	Wester Bros.	Wesley	E. P. Conway
159	Greenville Cry. Assn.	Chas. S. Rogers	Greenville	Chas. Watson



## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Clayton County—				
160	Fidelity Cry.	H. F. Beyer	Edgewood	E. J. Whipple
161	Elkport Cry.	H. F. Beyer	Edgewood	J. S. Watson
162	Farmersburg Co-op. Cry. Co.	A. A. Kishman	Farmersburg	I. D. Hender-shott
163	Garnaville Fars. Cry.	E. C. Wicker	Garnaville	J. F. Fisher
164	Luna Fars. Co-op. Cry.	Jas. Humphrey	Luna	S. Peterson
165	Littleport Cry.	H. F. Beyer	Edgewood	Frank Sherman
166	J. D. Bickel Produce Co. (McGregor)	W. G. Will	Chicago, Ill. 1355 Tribune Bldg.	C. H. Wilson
167	St. Olaf Co-op Cry.	Jno. Christenson	St. Olaf	Jack Frisbie
168	Strawberry Point Fars. Cry. Assn.	O. C. Gladwin	Point	H. J. Evans
169	Volga Fars. Cry. Assn.	A. E. Olinger	Volga City	W. A. Shick
170	Blue Grass Cry. Millville Creamery Osterdock Creamery	Jno. Geraghty	McGregor Rl. Millville Osterdock	Jno. J. Foss
Clinton County—				
171	*Springbrook Cry.	Jno. Newman Co.	Elgin, Ill.	C. Larsen
172	*Springbrook Cry. (Petersville)	Jno. Newman Co.	Elgin, Ill.	
173	*Springbrook Cry. (Delmar)	Jno. Newman Co.	Elgin, Ill.	
174	*Springbrook Cry. (Feeds Grove)	Jno. Newman Co.	Elgin, Ill.	
175	Fars. Co-op. Cry. Co.	Carl Lohmann	Wheatland	A. E. Banta
176	Fars. Co-op. Cry.	Edward Hart, Jr.	Toronto	W. L. Sloan
177	Iowa Cold Storage Co.	H. R. Gray	Clinton	Walter Freed
178	*Springbrook Cry. (Browns)	Jno. Newman Co.	Elgin, Ill.	
Crawford County—				
179	*Fairmont Cry. Co. (Denison)	E. F. Howe	Omaha, Nebr.	Harry Littrel
Dallas County—				
180	Fars. Co-op. Cry. Co.	Jas. L. Kenchie	Dexter	Jas. L. Kenchie
181	*Perry Cry.	J. Moody & Son	Perry	
182	*Woodward Cry.	H. P. Caloukey & Son	Woodward	Wm. Ackerman
183	*Smith Produce Co.	G. W. Curtis	Redfield	
184	DeSoto Co-op. Cry. Van Camp Packing Co.'s Condensary	H. G. Smith	De Soto Rl.	A. Cochrane
		Allen Harvey	Perry	
Decatur County—				
185	*Clarinda Poultry Butter & Egg Co.	W. W. Richardson	Clarinda	O. J. Gustin

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Delaware County—				
186	Greeley Fars. Cry. Co.	J. C. Matthews	Greely	W. R. Crabb
187	Colesburg Cry. Co.	Robt. A. Gull	Colesburg	A. L. Landis
188	Harryville Cry.	Theodor Pohlkamp	Ryan Rl.	Matt McDowall
189	Hopkinton Co-op. Cry.	I. T. Wilson	Hopkinton	J. Braselton
190	Rear Grove Cry. Co.	Geo. T. Goodken	Dyersville R28	Jno. B. Domayer
191	Delaware Co-op. Cry.	A. D. Long	Manchester	E. E. Mittlestadt
192	Earville Cry.	J. M. Dunn	Earville	Guy H. Dunn
193	Manchester Co-op. Cry.	Jas. Bishop	Manchester	W. E. Mittlestadt
194	*Dairy City Cry.	Mrs. L. Andrews	Manchester	A. F. Schultz
195	*Dairy City Cry. (Golden)	Mrs. L. Andrews	Manchester	
196	*Dairy City Cry. (Ehler)	Mrs. L. Andrews	Manchester	
197	Masonville Co-op. Cry.	Mrs. L. Andrews	Masonville	R. J. Erb
198	Silver Spring Cry. Co.	E. S. Harris	Delhi	A. H. Bentz
199	Fars. Co-op. Cry. Co.	E. B. Porter	Manchester	G. Suesel
200	Ryan Cry.	M. E. Blair	Ryan	Geo. A. Emry
201	*Ryan Cry. (Broadway)	Geo. A. Emry	Ryan	Geo. A. Emry
202	*Ryan Cry. (Silver Creek)	Geo. A. Emry	Ryan	
203	Hazel Green Cry. Co.	H. F. McBride	Hopkinton	C. J. Rohde
204	Onaida Cry.	F. M. Burbridge	Onaida	H. Burbridge
205	Spring Branch Cry. Co.	J. B. Higman	Manchester	Harley Everts
Dickinson County—				
206	*Lake Park Co-op. Cry.	J. G. Chrysler	Lake Park	E. E. Starr
207	Midford Fars. Butter & Cheese Assn.	H. H. Shipman	Midford	F. W. Born
208	Fars. Co-op. Cry. Assn.	A. F. Bergman	Spirit Lake	Geo. Williams
209	Terril Co-op. Cry. Assn.	T. M. Tvedten	Terril	P. J. Mable
210	Superior Co-op. Cry.	J. M. Plummer	Superior	Philip Wolf
Dubuque County—				
211	Balltown Co-op. Cry.	C. D. Harrington	Waupeton R26	Henry Koehler
212	Cascade Co-op. Cry.	P. J. Conlin	Cascade	C. T. Elliott
213	Hickory Valley Cry.	Jno. Hamm	Farley R17	Geo. Harter
214	Fars. Golden Star Cry.	Jos. Schindler	Dyersville	J. B. Feldman
215	Fillmore Co-op. Cry. Co.	Wm. Craft	Cascade R28	Anthony Smith
216	*Farley Cry. Co.	G. W. Cropp	Farley	Thos. Landis
217	Globe Cry. Co.	Geo. Friedmann	N. Buena	
218	New Vienna Central Cry.	Vista R2	Vista R2	J. P. Crippes
219	Farul Cry.	Henry Smith	New Vienna	Geo. Landis
		J. W. Farni	Durango R25	J. W. Farni
220	Sherrill Cry. Co.	I. C. Boleyn	Spechts	Fred Koeller
221	Worthington Cry.	Christian Baehler	Ferry R9	C. Baehler
222	Zwingle Cry. Co.	F. G. Ladd	Worthington	Geo. J. Werner
223	Holy Cross Cry.	Leo Sweeney	Zwingle	
224	*S. P. Wadley Co.	S. C. Wadley	N. Buena	Jas. McCool
225	Loetscher Cry.	Jno. Loetscher	Vista R1	H. B. Bullis
226			Richardsville	Jno. Loetscher
227	Iowa Dairy Co.	A. M. Conzett	Dubuque 214	C. A. Howard
227	O'Neill Cry.	C. O'Neill	Couler Ave.	Geo. Reckner
228	Bentrice Cry. Co.		Waupeton R29	
Emmet County—				
229	Fars. Co-op. Cry. Co.	Peter H. Burt	Armstrong	Roy A. Burt
230	*Fars. Cry. Co.	O. K. Bervin	Halfa	Chas. Olson
231	Hoprig Fars. Cry. Co.	Jno. C. Bosold	Graettinger	Julius Jensen
232	Denmark Cry. Co.	H. J. Fink	Ringsted	Peter Knudsen
233	Forsyth Cry. Co.	H. A. Garde	Armstrong	Loren Bailey
234	Wallingford Cry.	O. O. Refsell	Wallingford R1	J. C. Jensen
	Estherville Cry.	Harry Dalzell	Estherville	W. A. Kerr

CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>Fayette County—</b>				
205	Fars. Cry. Co.	Floyd Finney	Arlington	G. O. Miller
236	Clermont Valley Cry.	F. F. Ferguson	Clermont	Amon Brickson
237	Elgin Fars. Dairy Co.	M. Luchsinger	Elgin	Ed Hanson
238	Fayette Cry. Assn.	Peter E. Jubb	Fayette	G. M. Miller
239	Hawkeye Cry. Co.	J. O. Adams	West Union	Chris Russler
240	Harlan Co-op. Cry. Co.	J. O. Lewis	Maynard	C. B. Bracy
241	Jefferson Cry. Co.	H. H. Meyer	Oelwein	A. H. Ford
242	Randalla Cry. Co.	E. W. Taylor	Randalla	R. Wagner
243	Center Valley Cry.	A. E. Fridly	Sumner	E. C. Schuknecht
244	St. Lucas Fars. Co-op. Cry. Co.	Jao. J. Mihm	Ft Atkinson	J. F. Cummings
245	Westgate Co-op. Cry.	F. S. Coleman	Westgate	B. H. Kunnen
246	Riverside Cry.	F. J. Schroeder	Wadena	F. J. Schroeder
247	West Union Cry.	N. H. Nelson	Calmar	L. Palmer
248	Waucoma Fars. Cry.	Thos. McAnaney	Waucoma	P. J. Kolbet
249	Scott Cry. Assn.	F. A. Sherman	Stanley	W. W. Day
250	Alpha Fars. Cry.	J. T. Gager	Alpha	C. A. Day
251	Richfield Cry.	H. C. Schroeder	Hawkeye	C. A. Day
252	Maple Grove Cry. Co.	Thos. E. Sadler	Hazleton	T. E. Sadler
253	Oelwein Fars. Cry. Co.	W. H. Day	Oelwein	C. M. Ross
254	German Cry. Co.	Wm. Seeger	Sumner Bl.	W. D. Wenthe
255	Oran Cry.	C. C. Knos	Sumner	B. Bentley
<b>Floyd County—</b>				
256	Rockford Co-op. Dairy Assn.	E. F. Briggs	Rockford	J. C. Farnham
257	Floyd Creek Cry. Co.	M. A. Hirsch	Charles City	H. J. Binger
258	Niles Cry.	Frank Brunner	Charles City	Frank Brunner
259	Charles City Cry.	J. J. Brunner	Charles City	Julius Brunner
260	Charles City Cry.	Emil Weiss	Charles City	Emil Weiss
261	Floyd Creamery	W. H. Staebler	Floyd	G. W. Volbrecht
<b>Franklin County—</b>				
262	Hamilton Co-op. Cry. Co.	Geo. Dohrmann	Hampton	L. C. Langsen
263	Fars. Co-op. Cry. Co.	C. A. Nicholson	Dows Rd.	Frank L. Larsen
264	Grant Center Cry. Co.	C. M. Shipley	Iowa Falls	Mr. Dexson
265	Lattimer Co-op. Cry. Co.	A. J. Johnson	Lattimer	R. D. Sweet
266	Gurler Barth Co.	R. H. Cary	Hampton	R. E. Walker
267	Ackley Creamery	Martin & Saverald	Ackley	R. J. Saverald
<b>Greene County—</b>				
268	G. W. Nicholson Co.	Wilbur W. Wertz	Grand Junction	J. M. Taff
<b>Grundy County—</b>				
270	Buck Grove Cry.	O. Nichols	Aplington	J. G. Ellinger
271	German Township Cry.	F. J. Martin	Ackley	Henry Schutjer
272	The Dike Co-op. Cry. Co.	M. J. Henningsen	Dike	J. F. Chapman
273	Fredsville Co-op. Cry. Co.	Hans Lausen	Cedar Falls R3	A. Kindberg
274	Beaver Center Cry. Co.	Andrew J. Meyer	Stout	T. E. Dilger
275	Welch's Creamery	R. R. Welch	Reinbeck	
276	Fern Cry. Co.	W. H. Henning	Parkersburg	B. T. Soles
277	Grundy Center Produce Co.	B. R. Churchill	Grundy Center	B. R. Churchill
<b>Guthrie County—</b>				
277	Bayard Co-op. Cry. Co.	E. E. Stranzer	Bayard	C. Rasmussen
278	Casey Cry. Co.	H. E. Smith	Casey	C. H. Matravars
279	Guthrie Center Co-op. Cry. Co.	J. A. McLaughlin	Guthrie Center	W. H. Skitt
280	Menlo Cry. Co.	A. C. Curtis	Stuart	H. H. Colbert
281	Howa Dairy Co.	W. H. Hall	Yale	D. C. Bailbow
282	North Branch Co-op. Cry.	S. O. Jorgensen	North Branch	S. O. Jorgensen

CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
<b>Hamilton County</b>				
283	*Ellsworth Co-op. Cry.	S. Stenberg	Ellsworth	
284	*Ellsworth Co-op. Cry.	S. Stenberg	Ellsworth	D. W. Mohler
285	(Hadcliffe)	S. Stenberg	Ellsworth	Jno. Reerson
286	Ellsworth Co-op. Cry. Assn.	S. Stenberg	Jewell	M. G. Olson
287	Jewell Cry. Co.	Monck & Reerson	Randall	
288	Webball Fars. Cry. Co.	O. T. Henryson	Webster City	T. C. Orng
288	Randall City Cry.	Ellingson Mathre & Co.		
<b>Hancock County—</b>				
289	Britt Co-op. Cry. Co.	H. A. Schaper	Britt	H. L. McNary
290	Crystal Cry. Co.	L. A. Nelson	Crystal Lake	Hans Jensen
291	Goodell Cry. Co.	L. W. Wessenberg	Goodell	Kaute Hague
292	Fars. Co-op. Cry. Co.	G. P. Merten	Garner	C. R. Conway
293	Concord Cry. Co. (Ventura)	H. H. Ollenburg	Garner R3	Robt. Bless
294	Fars. Co-op. Cry.	F. L. Bush	Kanawha	B. O. Brownlee
295	Woden Creamery	L. C. Peterson	Woden	L. C. Peterson
<b>Hardin County</b>				
296	Alden Creamery	T. E. Huston	Alden	N. H. Trimble
297	Buckeye Co-op. Cry. Co.	E. A. Carriel	Buckeye	R. C. Rodgers
298	Eldora Creamery	Peter Jensen	Eldora	R. E. Hadley
299	Hubbard Co-op. Cry. Co.	Ernest Hilker	Hubbard	Fred Herzog
300	Iowa Falls Cry. Co.	E. E. Benedict	Iowa Falls	J. R. Jones
301	New Providence Cry.	E. G. Shelton	New Providence	J. W. Mohler
302	Concord & Scott Co-op. Cry. Co.	J. S. Thompson	Garden City	J. F. Burrett
303	Steamboat Rock Cry. Co.	F. W. Campbell	Steamboat	A. D. Gimer
304	Cleves Creamery	F. J. Martin	Ackley	M. J. Mansager
<b>Harrison County—</b>				
305	*Waterloo Creamery Co.	Leroy Carliss	Council Bluffs	
<b>Howard County—</b>				
306	Maple Leaf Creamery Co (Maple Leaf)	D. Lane	Elma R1	A. J. Herman
307	Proftvin Creamery Assn.	A. J. Miles	Proftvin	J. A. Dostal
308	Saratoga Co-op. Assn.	Alfred Miles	Saratoga	Henry Foss
309	Elma Co-op. Cry. Co.	J. P. Whelan	Elma	J. P. Whelan
310	Cresco Creamery	Nelson & Palmer	Cresco	D. A. Palmer
311	Schley Creamery	L. T. Fosse & Sons	Cresco R3	C. A. Fosse
312	Fars. Co-op. Cry. Assn.	L. A. Esgerichs	Chester	C. C. Plummer
<b>Humboldt County—</b>				
313	Braggate Co-op. Cry. Co.	O. J. Sheldon	Braggate	D. A. O'Nell
314	Bode Creamery Assn.	J. Hoff	Otosen	A. Granseth
315	Owlike Creamery Co.	L. M. Clausen	Goldfield	Frank Haines
316	Humboldt Cry. Co.	F. W. Rogers	Humboldt	Wm. Gosman
317	Waconsta Creamery	L. J. Clave	Otoson	M. Hiner
318	Rutland Creamery	U. G. Besett	Rutland	Joe Bogh
319	Cloyon Creamery	Lewis Olson	Thor	P. O. Knutson
320	*Ft. Dodge Cry. Co. (LuVerne)	A. R. Loomis	Ft. Dodge	

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Iowa County—				
321	Shimer Creamery Co.	S. H. Stanerson	Conroy	W. I. Dilger
322	Genoa Bluff Cry. Co. (Ladora)	M. W. Kelting	Williamsburg	Geo. P. Byrne
323	Ladora Cry. Co.	Jno. Baitinger	Ladora	Geo. Baitinger
324	Marengo Fars. Mut. Co-op. Co.	Denis Sullivan	Marengo	B. S. Wallace
325	Victor Co-op. Cry. Co.	Louis Feller	Victor	H. E. Lenoicher
326	Troy Creamery	Geo. C. House	Williamsburg	W. R. Edwards
327	*Troy Creamery (Williamsburg)	Geo. C. House	Williamsburg	W. R. Edwards
328	Tork Creamery Co.	H. W. Hudepohl	S. Amann RL	G. E. Steinke
Ida County—				
329	*Holstein Creamery	A. W. Hubbard	Hinckley, Ill.	W. O. Bradley
Jackson County				
330	Fulton Co-op. Cry. Co.	Jno. Heide	Fulton	Gilbert Nims
331	Fars. Union Co-op. Cry. Co.	Carl Hinkleman	Maquoketa	J. F. Dawson
332	Sabula Creamery	J. F. Runkle	Sabula	J. F. Runkle
333	Springbrook Cry. (Miles)	Jno. Newman Co.	Elgin, Ill.	A. J. Sponh
334	Preston Cry. Assn.	Sam'l McNeil	Preston	Jno. S. Smith
335	*Preston Cry. Assn. (Preston)	Sam'l McNeil	Preston	
336	Springbrook Cry. (Preston)	Jno. Newman Co.	Elgin, Ill.	A. J. Negus
337	*Springbrook Cry. (Union Center)	Jno. Newman Co.	Elgin, Ill.	
338	*Springbrook Cry. (Spragueville)	Jno. Newman Co.	Elgin, Ill.	
339	Sterling Sep. Cry.	N. A. Hoffman	Lamotte	J. M. Hoffman
340	St. Donatus Creamery	Heinrig & Fransen	St. Donatus	J. P. Frantzen
341	Hansen Cold Storage Co.	E. D. Hansen	Maquoketa	P. J. Hagarty
342	Springbrook Cry. (Springbrook)	Jno. Newman Co.	Elgin, Ill.	J. E. Ducharme
343	Springbrook Cry. (Maquoketa)	Jno. Newman Co.	Elgin, Ill.	G. S. Wingham
344	*Springbrook Cry. (Andrew)	Jno. Newman Co.	Elgin, Ill.	
345	Bellevue Cry.	F. G. Ladd	Bellevue Rd.	F. G. Ladd
Jasper—				
346	Baxter Dairy Co.	H. Krampe	Baxter	H. C. Schettler
347	Newburg Cry. Co.	G. D. Alden	Newburg	
348	*New Sharon Produce Co. (Lynville)	A. R. Hardesty	New Sharon	
Jefferson County—				
349	Fairfield Cry. Co.	H. V. Downs	Fairfield R7.	Geo. Y. Ross
350	Four Corners Cry.	Jas. Stenburg	Lockridge	Jas. Stenburg
351	*Elmwood Creamery	Jno. McLane	Fairfield	B. B. Hughes
Jones County—				
352	*Monmouth Cry. (Monmouth)	Jas. P. Younger	Chicago, Ill.	C. E. Mills
353	Fawn Creek Cry.	W. D. Romine	Anamosa	W. E. Gierhart
354	Center Junction Cry. (Center Junction)	Jas. P. Younger	Chicago, Ill.	L. Lucia
355	Amber Co-op. Cry. Co.	O. T. Ruhe	Amber	Frank Nickel
356	Langworthy Co-op. Cry. Co.	J. H. Batchelder	Langworthy	J. H. Batchelder
357	Martelle Creamery	S. C. Batchelder	Martelle	S. C. Batchelder
358	Klondike Creamery	R. Bohren	Monticello	Fred Lehman
359	*Diamond Creamery	W. J. Pinchas	Monticello	C. H. Cleveland
360	*Topaz Creamery	G. W. Simpson	& Co.	Oxford Jct.
361	Scotch Grove Co-op. Cry. Co.	H. R. Jacobs	Scotch Grove	Geo. Jensen
362	Downerville Fars. Cry. Co.	C. R. Wilder	Monticello	C. R. Wilder
363	Birk Creamery	C. L. Perry	Anamosa	J. M. Woodlett

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Keokuk County—				
364	Geo. M. Griffin Cry.	R. E. Gould, Mgr.	Sigourney	Will Shaver
Kossuth County—				
365	Algona Co-op. Cry. Co.	J. B. Hofins	Algona	L. P. Anderson
366	Plain Creek Creamery	C. W. Hopkins	Algona R1	M. J. Bobo
367	Burt Coop. Cry. Co.	A. Dan	Burt	D. L. Godden
368	Bancroft Co-op. Cry. Co.	Jno. Bernhard	Bancroft	A. J. Doleschal
369	Fenton Creamery Co.	F. C. Newel	Fenton	F. D. Shifflet
370	Germania Co-op. Cry. Co.	M. J. Dyer	Germania	M. J. Dyer
371	Hobart Cry. (Hobart)	Wesley Bros.	Wesley	P. W. Johnson
372	Irrington Co-op. Cry. Co.	Jesse L. Bedell	Irrington	C. A. Nurell
373	*Irrington Co-op. Cry. Co.	Jesse L. Bedell	Irrington	J. T. Hanna
374	Lone Rock Co-op. Cry. Co.	Wm. Delaney	Lone Rock	H. M. Dyer
375	Pars. Co-op. Cry. Assn.	E. J. Skinner	Ledyard	
376	Seneca Co-op. Cry. Co. (Ringsted)	M. Jensen	Penton	Fred Erickson
377	Sexton Creamery (Sexton)	Wesley Bros.	Wesley	W. N. Anderson
378	St. Joseph Dairy Assn.	Peter Bormann	Livermore	Christ Bogh
379	Swea City Co-op. Cry. Co.	Ida C. Anderson	Swea City	B. S. Nelson
380	Titonka Creamery	L. C. Peterson	Woden	Fred Hopman
381	Lotts Creek Co-op. Cry. Co.	H. W. Dreyer	Lone Rock	G. T. Gudtknecht
382	Whittemore Creamery Co.	H. P. Hatch	Whittemore	A. M. Whitney
383	Wesley Creamery	Wesley Bros.	Wesley	J. J. Boland
Lee County—				
384	*The S. P. Pond Co.	F. H. George	Keokuk	E. B. Colee
Linn County—				
385	Birk Cry. (Buffalo Twp.)	C. L. Perry	Anamosa	C. L. Perry
386	Central City Creamery	P. W. Sawyer	Central City	W. A. Stone
387	Valley Farm Creamery	P. G. Henderson	Central City	Frank Gillilan
388	Coggon Creamery	J. J. McAreary	Coggon	J. J. McAreary
389	Gurler Bath Co.	A. J. Barth	Cedar Rapids	C. C. McCue
390	Center Point Creamery	G. N. Pollock	Center Point	G. N. Pollock
391	Ely & Western Creamery	Frank J. Dolezal	Ely	Wm. Lipavsky
392	Springville Creamery	C. E. Batchelder	Springville	Earl Batchelder
393	Troy Mills Creamery	J. M. Tupper	Troy Mills	R. E. Bantz
394	Waubeek Creamery	J. W. Bates	Waubeek	H. C. Hemenway
395	Walker Creamery	H. J. Nietert	Walker	S. W. Laird
396	Rogers Creamery	T. E. Ravenscroft	Cedar Rapids	O. C. Capper
397	*Ryan Cry. Station (Northside)	Geo. A. Emry	Ryan	
398	*Diamond Cry. Co. (Prairieburg)	W. J. Pinchas	Monticello	
Lyon County—				
399	Inwood Creamery	L. M. Foote	Inwood	
400	Rock Rapids Cry.	A. W. Hubbard	Rock Rapids	W. J. Becker
401	*George Creamery (George)	A. W. Hubbard	Hinckley, Ill.	
Mahaska County—				
400	*New Sharon Produce Co.	A. R. Hardesty	New Sharon	John Roberts
401	*Oskaloosa Creamery Co.	H. W. Garner	Oskaloosa	A. L. Larsen
Marion County—				
402	*Pella Creamery	D. R. Rhynsburger	Pella	T. Smorenburg

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Marshall County—				
403	†Minerva Valley Cry. Assn. (St. Anthony).....c	A. Brackney.....	Clemens.....	G. R. Jackman
404	Dunbar Creamery Co.....c	O. J. Olson.....	Dunbar.....	C. C. Bomberger
405	Liscomb Creamery.....c	C. N. Hart.....	Liscomb.....	C. N. Hart
406	State Center Fars. Cry. Assn....c	C. Hansen.....	State Center.....	G. T. Shaunce
407	*New Sharon Produce Co. (Laurel Station).....f	A. R. Hardesty.....	New Sharon.....	
Mitchell County—				
408	David Co-op. Creamery.....c	Mrs. M. F. Griffin.....	David.....	Wm. Bomberger
410	Fars. Co-op. Cry. Assn. (Orchard).....c	H. L. Johnson.....	Rudd.....	Sig. Klemesrud
410	Fars. Co-op. Cry. Assn.....c	J. W. Clay.....	Osage.....	M. M. Blandin
411	Riceville Butter & Cheese Co....s	H. A. Cheney.....	Riceville.....	H. Brokaw
412	Stacyville Cry. (Stacyville)....f	Spensley & Co.....	Mineral Point, Wis.....	C. H. Woodlwis
413	St. Ansgar Cry. Co.....c	J. M. Tollefson.....	St. Ansgar.....	H. R. Bullis
414	Osage Co-op. Cry. Assn.....c	J. L. Tibbets.....	Mitchell.....	G. Puslane
415	Little Cedar Creamery.....f	G. L. Helfter.....	Little Cedar.....	G. L. Helfter
416	New Haven Cry. (New Haven)....f	J. J. Brunner.....	Osage R4.....	J. J. Brunner
Monona County—				
417	†Moorhead Creamery.....c	P. D. Nelson.....	Moorhead.....	P. D. Nelson
Monroe County				
418	†Albia Creamery.....f	W. A. Elder.....	Albia.....	W. A. Elder
Muscatine County—				
419	Iowa Condensed Milk Co.....s	S. G. McFadden.....	West Liberty.....	
O'Brien County—				
420	Caledonia Creamery Co.....s	Wm. Gehrs.....	Paullina.....	Wm. Gehrs
421	Hartley Creamery.....f	A. D. Rozeboom.....	Hartley.....	D. B. Pippen
422	†Primghar Creamery.....s	A. W. Hubbard.....	Hinckley, Ill.....	Geo. A. Bristol
423	†Sheldon Creamery.....f	D. A. Miller.....	Sheldon.....	H. Dummer
424	Union Creamery Co.....s	Wm. Strampe.....	Paullina.....	Wm. Strampe
Osecola County—				
425	Ashton Creamery.....f	C. W. Davis.....	Ashton.....	C. W. Davis
426	Allendorf Cry.....f	Jno. Davids.....	Allendorf.....	Jno. Davids
427	†Sibley Creamery.....f	Wendt Bros.....	Sibley.....	H. D. Wendt
428	Farmers Co-op. Cry. Co.....c	R. I. Stewart.....	Ocheyedan, Ia.....	Clyde Jennings
Page County—				
429	†Clarinda P. Butter & Egg Co.s	W. W. Richardson.....	Clarinda.....	John Sallie

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Palo Alto County—				
430	Silver Lake Cry.....c	J. J. Martin.....	Ayrshire.....	F. W. Shellman
431	Cylinder Creamery.....f	E. W. Reid.....	Cylinder.....	E. W. Reid
432	Rush Lake Cry. Co.....c	J. H. McCreary.....	Curlew.....	A. W. Finuf
433	Emmetsburg Cry. Co.....c	Lewis Stuehmer.....	Emmetsburg.....	M. M. Sorenson
434	Fairville Cry. Co.....c	Jos. Kliegl.....	Cylinder R2.....	W. D. Kucker
435	Lost Island Cry. Co. (Graettinger).....c	L. C. Christensen.....	Emmetsburg.....	Theo. Myers
436	Mallard B. & C. Assn.....c	T. C. Truog.....	Mallard.....	T. R. Wilson
437	Palo Alto Creamery.....c	E. L. Cullen.....	Graettinger.....	R. Nelson
438	Osgood Creamery.....c	E. P. McEvoy.....	Emmetsburg.....	
439	Palo Alto Creamery Co.....c	O. S. Helvig.....	Graettinger.....	M. P. Junker
440	Fars. Co-op. Cry. Co.....c	W. Laton.....	Ruthven.....	A. L. Remington
441	Rodman Co-op. Cry. Co.....c	C. J. Frye.....	Rodman.....	C. F. Bollig
442	West Bend Co-op. Cry. Co.....c	A. L. Frye.....	West Bend.....	T. A. Clarke
443	Depew Cry. Co.....c	R. Buchan.....	Cylinder R1.....	Henry Meyer
Plymouth County—				
444	Paynes Creamery.....f	Payne Bros.....	Kingsley.....	Carl Lissner
445	Grant Twp. Cry. Co. (Mammen).....c	Fred Kusch.....	Lemars R4.....	Jobe Kennedy
446	†Hansen Creamery.....s	A. W. Hubbard.....	Hinckley, Ill.....	J. E. Clak
447	Akron Creamery.....c	Aug. Popritz.....	Akron.....	Aug. Popritz
448	†LeMars Creamery.....f	H. K. Kennedy.....	LeMars.....	Clarence Finnell
Pocahontas County				
449	Laurens Creamery.....f	J. G. Hinn.....	Laurens.....	F. W. Johnson
450	Plover Creamery.....f	H. Fitzgerald.....	Plover.....	H. H. Grove
451	Gilt Edge Creamery.....f	W. B. Rogers.....	Rofe.....	W. B. Rogers
452	Palmer Creamery.....f	Geo. Siebel.....	Palmer.....	Geo. Siebel
453	Pocahontas Creamery.....f	W. T. White.....	Pocahontas.....	Geo. Webb
Polk County—				
454	†Des Moines Creamery Co.....s	B. S. Schermerhorn.....	Des Moines.....	W. S. Gould
455	†Fars. Co-op. Produce Co.....s	Keller J. Bell.....	Des Moines.....	W. E. Blood
456	†Crystal Springs Cry.....f	MacIac Bros.....	Des Moines.....	Wm. McWilliam
457	†Beatrice Cry. Co.....s	G. E. Haskell.....	Lincoln, Nebr.....	R. E. Rae
Pottawattamie County—				
458	†Waterloo Creamery Co.....s	Leroy Corliss.....	Co. Bluffs.....	E. Rentfrou
459	*Waterloo Cry. Co. (Underwood).....s	Leroy Corliss.....	Co. Bluffs.....	
Poweshiek County—				
460	†Springbrook Cry. (Guernsey)....f	Jno. Newman Co.....	Elgin, Ill.....	O. W. Hicks
461	†Springbrook Cry. (Hartwick)....f	Jno. Newman Co.....	Elgin, Ill.....	
462	†Springbrook Cry. (Montezuma)....f	Jno. Newman Co.....	Elgin, Ill.....	John Kane
463	†Grinnell Creamery.....f	J. W. Fowler.....	Grinnell.....	M. J. Powers
464	Deep River Cry. Co.....c	Geo. E. Grier.....	Deep River.....	H. J. Goebel
465	Sheridan Fars. Co-op. Cry. (Sheridan).....c	J. F. Shope.....	Malcom.....	J. H. Nell
Sac County—				
466	Fars. Co-op. Cry. Co.....c	C. F. Jackson.....	Early.....	L. W. McCreary
467	Herring Cry.....f	M. R. Wright.....	Herring.....	M. R. Wright
468	Lake View Cry. Co.....f	E. C. & H. M. Rogers.....	Lake View.....	
469	Delaware Center Cry.....c	Clark N. Searle.....	Nemaha.....	W. E. Cline
470	†Schaller Cry.....s	A. W. Hubbard.....	Hinckley, Ill.....	V. E. Krantz
471	Elgin Cry.....f	H. Junkermer.....	Storm Lake.....	Elmer Wise
472	Wall Lake Cry.....f	Thos. Aherb.....	Wall Lake.....	R. H. Sharp
473	Hillman Cry.....f	I. Hillman.....	Lytton.....	Fred Hillman

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Scott County—				
474	Star Cry.....s	H. A. Briceland	Long Grove	Harry Ambler
475	The A. Wood Cry. Co.....s	F. A. Waugh	Davenport	F. A. Williams
Shelby County—				
476	Corley Cry. Co. (Corley).....c	A. C. Dinesen	Avoca	Marinus Jensen
477	Earling Creamery.....i	Bruck & Kunkel	Earling	Jacob Bruck
478	Center Creamery Co.....c	Geo. H. Miller	Harlan R2	Chris Jensen
479	Buck Valley Cry. Co. (Harlan).....s	M. P. Henriksen	Andubon Rr.	F. Nemann
480	Danway Creamery.....c	H. Dahllof	Kirkman	N. Hansen
481	Danway Cry. (Kirkman).....c	H. Dahllof		
482	Portsmouth Creamery.....i	M. A. Sorenson	Portsmouth	M. Ankersterne
483	Prairie Rose Cry.....c	Geo. Hansen	Walnut R2	Peter Hansen
484	Waterloo Cry. Co. (Shelby).....s	Leroy Corliss	Co. Bluffs	
Sioux County				
485	Alton Creamery.....i	C. J. Mueller	Alton	J. F. Vander Meer
486	Hospers Creamery.....i	Stoever & Boterman		Emil Zorr
487	Hawarden Creamery.....i	J. P. Mueller	Hawarden	Peter Peterson
488	Hull Creamery.....i	J. L. Curtis	Hull	J. L. Curtis
489	Rock Valley Creamery.....i	H. E. Day		
490	Jelgerhuis & Co. (Sioux Center).....i	Jelgerhuis & Co.	Sioux Center	
Story County—				
491	Fars. Mutual Co-op. Cry. Co.....c	C. P. Lake	Gilbert	C. P. Lake
492	Huxley Fars. Co-op. Cry. Co.....c	A. H. Sheldahl	Huxley	P. J. Severald
493	Roland Fars. Cry. Co.....c	L. T. Olson	Roland	Geo. Wick
494	Story City Fars. Co-op. Cry. Co.....c	Alex Henderson	Story City	Sam Severeide
495	Slater Fars. Cry. Co.....c	O. J. Viland	Slater	C. Clark
496	Zearing Cry. Co.....c	C. P. Bean	Zearing	C. E. Buffington
497	Fars. Cry. Co.....c	E. H. Baumgardner	McCalsburg	C. T. Knutson
498	College Cry.....State	Jno. Bower	Amesburg	H. C. Homeman
Tama County—				
499	Springbrook Cry. (Chelsea).....i	Jno. Newman Co.	Elgin, Ill.	H. F. Beckmark
500	Springbrook Cry. (Elberon).....i	Jno. Newman Co.	Elgin, Ill.	F. L. Francisco
501	Tama Co-op. Cry. Co.....c	H. Bissell	Tama	W. H. Graham
Taylor County—				
502	Clearfield Cry. Co.....c	Joe Doubet	Clearfield	Jno. Winfield
503	Springbrook Cry. Co. (Lenox).....c	Jno. Newman Co.	Elgin, Ill.	A. H. Pencock
504	Bedford Cry. Co.....i	Frank Dunning	Bedford	Leslie Klopp
Union County—				
505	Creston Poultry Butter & Egg Co.....s	W. W. Richardson	Clarinda	
506	Fars. Co-op. Cry. Co.....c	Jos. Koeppling	Afton	Jos. Koeppling
Wapello County				
507	Yorkshire Cry. Co.....s	R. N. Morrill	Ottumwa	J. C. Hall
508	Blakesburg Cry.....i	J. W. Poland	Blakesburg	J. W. Poland
Washington County—				
509	Linwood Cry.....i	Keota Produce Co.	Keota	Jno. Lauber

## CREAMERY LIST—CONTINUED

Office record number	Name of Creamery	Name of Proprietor, Secretary or Manager	P. O. Address of Proprietor, Secretary or Manager	Name of Buttermaker
Wayne				
510	Old Colony Cry.....i	Jns. L. Humphrey, Jr.	Humeston	J. L. Cooksley
Webster County—				
511	Fort Dodge Cry.....i	A. R. Loomis	Ft. Dodge	S. H. Deucker
Winnebago County—				
512	Forest City Co-op. Cry. Assn.....c	Jno. Carason	Forest City	W. C. Frank
513	Forest City Co-op. Cry. Assn. (Forest City).....c	Jno. Carason	Forest City	
514	Lake Mills Cry. Co.....c	J. A. Horvel	Lake Mills	T. A. Storvick
515	Lake Mills Cry. Co. (Dahls Church).....c	J. A. Horvel	Lake Mills	
516	Lake Mills Cry. Co. Newton Twp.).....c	J. A. Horvel	Lake Mills	
517	Lake Mills Cry. Co. Mount Valley Twp.).....c	J. A. Horvel	Lake Mills	
518	Lincoln Co-op. Cry.....c	B. Quamme	Lake	P. N. Peterson
519	Scarville Cry. Assn.....c	K. M. Larson	Scarville	Sam Kristensen
520	Vinje Cry. Assn.....c	Ole Strom	Scarville	B. A. Jensen
521	Thompson Cry.....c	T. L. Egum	Thompson R2	C. C. Clifton
522	Buffalo Center Creamery.....i	Jno. P. Olson	Buffalo Center	Jno. P. Olson
Winneshiek County—				
523	Silver Creek Cry. Co.....c	J. A. Thompson	Burr Oak	V. V. Johnson
524	Calmar Cry.....i	A. E. Boe	Calmar	Iver Barlow
525	Ice Cave Creamery.....c	G. N. Kjome	Decorah	E. T. Halsey
526	Pestina Cry. Co.....c	W. A. Schrandt	Calmar R1	H. L. Suhr
527	Highland Cry. Co.....i	Bidne & Akre	Highlandville	P. J. Bidne
528	Rock Springs Cry.....i	P. M. Peterson	Spring Grove, Minn.	
529	Kendallville Cry.....i	N. H. Nelson	Calmar	P. M. Peterson
530	Nordness Cry. Co.....s	J. N. Bragestad	Decorah R1	Ed Hoines
531	Red Oak Cry.....c	N. E. Ramsey	Decorah R2	G. H. Thune
532	Silver Spring Cry.....c	M. J. Nicholson	Decorah R1	Hans Foss
533	L. T. Fosse & Sons.....i	O. A. Fosse	Ridgeway	Ole Hauge
534	Lincoln Cry. Co.....c	A. W. Prann	Ridgeway	S. L. & O. A. Fosse
Woodbury County—				
535	Hanford Produce Co.....s	J. H. Whittemore	Chicago, Ill 210 Jackson St.	G. A. Bakken
536	Blue Valley Cry. Co.....s	C. J. Walker	Sioux City	M. O. Wheelock C. L. Smith
Worth County—				
537	Fertile Co-op. Dairy Co.....c	J. T. Tallackson	Fertile	J. A. Johnson
538	Kensett Cry. Co.....i	Gyllick Bros.	Kensett	Nils Gyllick
539	Joice Cry.....i	Gyllick Bros.	Joice	
540	Fars. Co-op. Cry.....c	E. R. Stock	Manly	Lou Knudson
541	Fars. Butter & Cheese Assn.....c	M. D. Johnson	Northwood	R. S. Bergsather
542	Harland Dairy Assn.....c	Dust Ryerson	Norman	A. M. Hanson
543	Brookfield Cry. Assn.....c	E. A. Tenold	Northwood	J. J. Sondergard
544	Tenold Co-op. Cry. Assn.....c	S. O. Vold	Northwood R1	N. O. Dahlen
545	Hanlontown Cry. Co.....c	H. G. Burtness	Hanlontown	H. E. Fowler
546	Lake Mills Cry. Co.....c	J. A. Horvel	Lake Mills	
Wright County—				
547	Norway Co-op. Cry. Co.....c	C. J. Baxter	Belmond R2	E. E. Evans
548	Clarion Cry. Assn.....c	Wiert Johnson	Clarion	Ira O'Neil
549	Fontaine Cry. Assn.....c	D. Goodrich	Goldfield	Jno. M. Beck
550	Rowan Co-op. Cry. Co.....c	D. A. French	Rowan	Geo. Goodsell
	Farmer's Co-op. Cry.....c	G. F. Elder	Belmond	C. H. Vanderham

## IOWA CHEESE FACTORY LIST

Name of Factory	Proprietor	Address	Cheesemaker
Bremer County—			
Janesville Cheese Factory.....	The Fowler Co....	Waterloo .....	Ino. McMurray
Cass County—			
1 Lewis Cheese Factory.....	Smart & Delan....	Lewis .....	M. E. Delan
Crawford County—			
2 Astor Cheese Factory.....	O. A. Olson.....	Astor .....	Guy H. Foye
Floyd County—			
3 Elm Springs Cheese Factory.....	H. D. White.....	Charles City..	Walter Pfeiffer
Greene County—			
4 Dana Mut. Co-op. Cry. Co.....	W. J. Elling.....	Dana .....	W. J. Elling
Howard County—			
5 Clover Leaf Cheese Factory.....	J. J. House.....	Cresco .....	J. J. House
Lee County—			
6 Franklin Sta. Cheese Factory...	L. J. Washurn...	Donnellson ...	L. J. Washburn
Mitchell County—			
7 Riceville B. & Cheese Co.....	H. A. Cheney.....	Riceville .....	H. A. Cheney
Washington County—			
8 Dublin Cheese Factory.....	J. S. Mangold....	Washington R5	J. S. Mangold
Wayne County—			
9 Lineville Cheese Factory.....	Mathew DeHaan..	Lineville .....	Mathew DeHaan