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## **Annual report of the Dairy and Food Commissioner of Wisconsin. 1892. 1893**

State Dairy and Food Commissioner  
Madison, Wisconsin: Democrat Printing Company, State Printer,  
1893

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ANNUAL REPORT

OF THE

Dairy and Food Commissioner

OF

WISCONSIN.

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1892.



MADISON, WISCONSIN.  
DEMOCRAT PRINTING COMPANY, STATE PRINTERS,  
1893.

*WISCONSIN DAIRY AND FOOD COMMISSION.*

---

D. L. HARKNESS,	-	-	-	-	-	COMMISSIONER.
WALTER A. WEST,	-	-	-	-	-	DAIRY EXPERT.
GEORGE C. COX,	-	-	-	-	-	STATE CHEMIST.

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LETTER OF TRANSMITTAL.

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Madison, Wis., October 1st, 1892

To His Excellency, GEO. W. PECK,

*Governor of Wisconsin:*

I have the honor to submit the report of this commission  
for the two years ending September 30th, 1892.

Respectfully submitted,

D. L. HARKNESS,  
*Commissioner.*



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# LAWS OF 1893.

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No. 161, A.]

[Published April 11, 1893.

## CHAPTER 109.

AN ACT to amend section 9, chapter 452, of laws of 1889, relating to the office of dairy and food commissioner.

The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:

Section 1. Section 9 of chapter 452 of the laws of 1889, is hereby amended by striking out the words "an annual" where they occur in the third line of the said section, and inserting in lieu thereof, the words "a biennial;" also by striking out the word "annually" where it occurs in the tenth line of said section, and inserting in lieu thereof the word "biennially;" so that the said section shall read as follows: Section 9. Said commissioner shall be furnished a suitable office in the capitol at Madison, and shall make a biennial report to the governor, which shall contain an itemized account of all expenses incurred and fines collected, with such statistics and other information as he may regard of value, and with the consent of the governor, not exceeding 20,000 copies thereof, limited to 300 pages, may be published biennially as other official reports are published, and of which 5,000 copies shall be bound in cloth.

Section 2. This act shall take effect and be in force from and after its passage and publication.

Approved April 6, 1893.

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No. 189, A.]

[Published April 26, 1893.

## CHAPTER 228.

AN ACT to regulate the branding of cheese.

The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:

Section 1. No person shall offer for sale, sell, ship or consign cheese labeled with a false brand or label, as to the quality of the article.

Section 2. The state dairy and food commissioner is hereby authorized and directed to issue to the cheese manufactories of the state, upon proper application therefor and under such regulations as to the cus-

to be used and use thereof as he may prescribe, a uniform stencil or brand, bearing a suitable device or motto and the words, "Wisconsin Full Cream Cheese."

Section 3. Every brand issued shall be used upon the side of the cheese on the bandage thereof, also upon the package containing the same, and shall bear a different number for each separate manufactory and the commissioner shall keep a book in which shall be registered the name, location and number of each manufactory using the said brand, and the name or names of the persons at each manufactory, authorized to use the same.

Section 4. It shall be unlawful to use or permit such brand to be used upon any other than full cream cheese or package containing the same.

Section 5. Every person who shall at any cheese factory in the state manufacture skimmed cheese, shall distinctly and durably stamp upon each and every such cheese, and upon the box, the words "Wisconsin Skimmed Cheese." All cheese not manufactured as in sections 1, 2, 3 and 4 of this act, shall be deemed to be skimmed cheese under the provisions of this act. The brand herein provided by this section of this act, for designating the grade and quality of cheese provided by this section, shall be such as to produce an impression not less than three inches in width and five inches in length, and shall be in full-faced capital letters of as large size as the space hereby provided for will permit, and the whole to be included within a plain heavy border. Ordinary stamping ink, either red, green or violet in color, and of such composition as not to be easily removed or wholly obliterated by moisture, shall be used in stamping as provided for by this section.

Section 6. Whoever violates the provisions of this act shall be deemed guilty of a misdemeanor, and for each and every package so falsely branded, or omitted to be branded as herein provided, shall be punished by a fine of not less than twenty-five nor more than fifty dollars, one half of which shall be paid to the person or persons furnishing the evidence upon which such conviction is made.

Section 7. All acts or parts of acts inconsistent with the provisions of this act, are hereby repealed.

Section 8. This act shall take effect and be in force from and after its publication.

Approved April 17, 1893.

# REPORT OF THE COMMISSIONER.

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The Legislature of 1889 passed a law, creating the office of Dairy and Food Commissioner for the State of Wisconsin, which clearly defines the duties and power of the office as set forth in the Laws of Wisconsin, relating to the office and duties of Dairy and Food Commissioner, as issued in pamphlet form by the Commissioner, June 15th., 1891, a copy of which is hereto annexed.

## OF THE OFFICE AND DUTIES OF THE FOOD AND DAIRY COMMISSIONER.

*Chapter 452, Laws of 1889.*

**SECTION 1.** The office of Dairy and Food Commissioner for the state of Wisconsin, is hereby created. Such commissioner shall be appointed by the governor, by and with the advice and consent of the senate, and his term of office shall be for two years from the date of his appointment, and until his successor is appointed and qualified; provided, that the term of office of the commissioner first appointed under this act shall expire on the first Monday in February, 1891, and vacancies occurring in the office for any cause shall be filled by appointment for the balance of the unexpired term. The salary of the commissioner shall be twenty-five hundred dollars per annum and his necessary and actual expenses incurred in the discharge of his official duties.

**SECTION 2.** Such commissioner may with the consent and advice of the governor, appoint two assistants, each of acknowledged standing, ability and integrity, one of whom shall be an expert in the matter of dairy products and the other of whom shall be a practical analytical chemist. The salaries of such assistants shall not exceed eighteen hundred dollars each per annum and their necessary and actual expenses incurred in the discharge of their official duties.

**SECTION 3.** It shall be the duty of the commissioner to enforce all laws that now exist, or may hereafter be enacted in this state regarding the production, manufacture or sale of dairy products, or the adulteration of any article of food or drink or of any drug, and personally or by his as-

sistants, to inspect any article of milk, butter, cheese, lard, syrup, coffee or tea, or other article of food or drug made or offered for sale within this state, which he may suspect or have reason to believe to be impure, unhealthful, adulterated or counterfeit, and to prosecute, or cause to be prosecuted any person or persons, firm or firms, corporation or corporations, engaged in the manufacture or sale of any adulterated or counterfeit article or articles of food or drink or drug, contrary to the laws of this state.

SECTION 4. Said commissioner or any assistant shall have power in the performance of his official duties to enter any creamery, factory, store, salesroom or other place or building where he has reason to believe that any food or drink or drug is made, prepared, sold or offered for sale, and to open any cask, tub, package or receptacle of any kind containing, or supposed to contain, any such article, and to examine or cause to be examined and analyzed the contents thereof, and the commissioner or any of his assistants may seize or take any article of food or drink or drug for analysis, but if the person from whom such sample is taken shall request him to do so he shall at the same time, and in the presence of the person from whom such property is taken, securely seal up two samples of the article seized or taken, the one of which shall be for examination or analysis under the direction of the commissioner, and the other of which shall be delivered to the person from whom the articles were taken. And any person who shall obstruct the commissioner or any of his assistants by refusing to allow him entrance to any place where he desires to enter in the discharge of his official duty, or who refuses to deliver to him a sample of any article of food or drink or drug made, sold, offered or exposed for sale by such person, when the same is requested and when the value thereof is tendered, shall be deemed guilty of a misdemeanor punishable by a fine of not exceeding twenty-five dollars for the first offense and not exceeding five hundred dollars or less than fifty dollars for each subsequent offense.

SECTION 5. It shall be the duty of the district attorney in any county of the state, when called upon by the commissioner or any of his assistants to render any legal assistance in his power to execute the laws, and to prosecute cases arising under the provisions of this act, and all fines and assessments collected in any prosecution begun or caused to be begun by said commissioner or his assistants shall be paid into the state treasury.

SECTION 6. With the consent of the governor, the state board of health may submit to the commissioner, or to any of his assistants, samples of water or of food or drink or drugs, for examination or analysis, and receive special report showing the result of such examination or analysis. And the governor may also authorize the commissioner or his assistants when not otherwise employed in the duties of their offices, to render such assistance in the farmers' institutes, dairy and farmers' conventions, and the agricultural department of the university, as shall be by the authorities be deemed advisable.

SECTION 7. The salaries of the commissioners and his assistants shall be paid out of the state treasury in the same manner as the salaries of other officers are paid, and their official expenses shall be paid at the end of each calendar month upon bills duly itemized and approved by the governor, and the amount necessary to pay such salaries and expenses is hereby appropriated annually.

SECTION 8. The commissioner may, under the direction of the governor, fit up a laboratory, with sufficient apparatus for making the analysis contemplated in this act, and for such purpose the sum of fifteen hundred dollars, or so much thereof as may be necessary, is hereby appropriated, and for the purpose of providing materials and for other necessary expenses connected with the making of such analysis, there is also hereby appropriated so much as may be necessary, not exceeding six hundred dollars annually. The appropriations provided for in this section shall be drawn from the state treasury upon the certificates of the governor.

SECTION 9. Said commissioner shall be furnished a suitable office in the capitol, at Madison, and shall make an annual report to the governor, which shall contain an itemized account of all expenses incurred and fines collected, with such statistics and other information as he may regard of value, and with the consent of the governor, not exceeding twenty thousand copies thereof, limited to three hundred pages, may be published, annually as other official reports are published, and of which five thousand copies shall be bound in cloth.

SECTION 10. All acts and parts of acts conflicting with this act are hereby repealed.

SECTION 11. This act shall take effect and be in force from and after its passage and publication.

Approved April 16, 1889.

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Note to section 4, supra.— If there is contradictory evidence concerning the sufficiency of the seal of a sample, and the credibility of the witnesses for the prosecution is submitted to the jury the defendant is not injured. If there is evidence that a few drops of carbolic acid was added to a sample of milk, and it is submitted to the jury as a question of fact whether this would change the character of the milk, make the analysis impossible or difficult, or in any way injuriously affect the sample for the purpose of analysis, the defendant has no cause of complaint. *Commonwealth v. Spear*, 143 Mass., 172.

It is observed of a similar statute that it is intended to secure a fair examination and analysis, by providing the defendant with the means of making an analysis of a portion of the same specimen which the state has analyzed. If the sample is not saved, or not saved in proper condition, he

has no means of showing that his evidence, if any he has as to the quality of the milk, applies to that with reference to which the government witnesses testify. It cannot be said that a portion reserved is sealed, within the meaning of the statute, when wax is merely placed on the top of the cork, and not extended over the mouth of the bottle and thus making it air-tight, if it is shown that the character of the milk will be affected by the air. *Commonwealth v. Lockhardt*, 144 Mass., 132.

Where the article analyzed has not been taken under the statute, the competency of evidence is to be determined by the common law, and the testimony of any person who had sufficient skill to analyze it, and who had analyzed some which was proven to have been sold by the defendant, is admissible. *Commonwealth v. Holt*, 146 Mass., 38.

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## PURE MILK, STANDARD OF.

### *Chapter 425, Laws of 1889.*

SECTION 1. Any person who shall sell or offer for sale or furnish or deliver, or have in his possession, with intent to sell or offer for sale or furnish or deliver to any creamery, cheese factory, corporation, person or persons whatsoever, as pure, wholesome and unskimmed, any unmerchable, adulterated, impure or unwholesome milk, shall upon conviction thereof, be punished by a fine of not less than ten nor more than one hundred dollars for each and every offense.

SECTION 2. In all prosecutions or other proceedings under this or any other law of this state relating to the sale or furnishing milk, if it shall be proven that the milk sold or offered for sale, or furnished or delivered, or had in possession with intent to sell or offer for sale, or to furnish or deliver as aforesaid, as pure, wholesome or unskimmed, contain less than three per centum of pure butter fat, when subjected to chemical analysis or other satisfactory test, or that it had been diluted or any part of its cream abstracted, or that it or any part of it was drawn from cows known to the person complained of to have been within fifteen days before or four days after parturition, or to have any disease or ulcers or other running sores, then and in either case the said milk shall be held, deemed and adjudged to have been unmerchable and adulterated, impure or unwholesome, as the case may be.

SECTION 3. All acts and parts of acts conflicting with or contrary to the provisions of this act are hereby repealed.

SECTION 4. This act shall take effect and be in force from and after its passage and publication.

Approved April 16, 1889.

NOTE — Validity. — A New York law (chapter 183, of 1885; chapter 202, of 1884), provides that “no person or persons shall sell, supply or bring to be manufactured, to any butter or cheese manufactory, any milk diluted with water, or any unclean, impure, unhealthy, adulterated or unwholesome milk.” Held a valid exercise of legislative power. *People vs. West*, 106 N. Y., 293.

A statute is not invalid because it fixes an arbitrary standard for pure or unadulterated milk, though it is drawn from healthy cows, and is sold in its natural state. In *People vs. Clipperly*, 37 Hun. (N. Y.), 324, it was held otherwise, one judge dissenting.

On appeal this case was reversed, without opinion, on the grounds given in the dissenting opinion: 101 N. Y. 634. The supreme court of New Hampshire say on this question: Practically it makes no difference whether milk is diluted after it is drawn from the cow, or whether it is made watery by giving her such food as will produce milk of an inferior quality, or whether the dilution, regarded by the legislature as excessive, arises from the nature of a particular animal, or a particular breed of cattle. The sale of such milk to unsuspecting consumers, for a price in excess of its value is a fraud, which the statute was designed to suppress. It is a valid exercise by the legislature of the police power for the prevention of fraud, and protection of the public health, and such as is constitutional. *State vs. Campbell*, 13 Atl. Rep., 585.

Construction — Indictment. — The New York law does not make fraudulent intent a necessary ingredient of the offense, and it would not be a reasonable construction of it to apply it to a dairyman who owns and conducts a butter or cheese factory for the manufacture of those articles from milk furnished exclusively by himself, from his own cows. If the defendant is such a person, those facts are matter of a defense, and their existence need not be negated on the face of the indictment. *People vs. West*, 106 N. Y., 293.

Under a Massachusetts law imposing a penalty for selling or offering to sell “adulterated milk, or milk to which any foreign substance has been added,” it is immaterial whether the substance added is injurious or not, The indictment need not allege the quantity of such substance. *Commonwealth vs. Schaffner*, 16 Northeast. Rep., 280.

Under an act which prohibits the sale of milk which is not of a good, standard quality, the fact that the milk was delivered under a contract to furnish the person who bought it with the milk of one dairy, is not a defense if that furnished was not of such quality. The contract would be held to contemplate milk which should be bought and sold. *Commonwealth vs. Holt*, 15 Northeast. Rep., 280.

Where one is charged with having in his possession, with intent to sell milk which is not of a good, standard quality, the fact that he was upon a wagon which had his name painted upon it, and that therein were cans of milk, and that a sample was given from one of them to one employed by



the milk inspector for analysis, is competent evidence to go to the jury upon the question of his intent. *Commonwealth vs. Rowell*, 15 Northeast. Rep., 154.

**Effect of the act of 1889 upon previous laws.**—It seems reasonably clear that section 1, of chapter 425, laws of 1889, *supra*, supersedes section 1, of chapter 157, laws of 1887, as to the offense of selling diluted, impure and unclean milk. Both the acts referred to cover the provisions of section 4607 Revised Statutes, and hence that section is not in force.

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### PROOF OF ADULTERATION, HOW MADE.

*Section 2, of Chapter 157 of the Laws of 1887, as amended by Chapter 344, Laws of 1889.*

SECTION 1. Proof of adulterations and skimming may be made with such standard tests and lacometers as are used to determine the quality of milk, or by chemical analysis.

SECTION 2. This act shall take effect and be in force from and after its passage and publication.

Approved April 10, 1889.

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NOTE.— This act supersedes chapter 361, laws of 1885, so far as the last mentioned act is valid. The act of 1885 prohibited the manufacture out of any oleaginous substances, or any compound of the same, other than that produced from unadulterated milk, or cream of the same, any article designed to take the place of butter or cheese, produced from pure, unadulterated milk, or cream of the same, and the offering of the same for sale or selling it as an article of food, without providing, as does the act of 1889, that the sale or offering for sale such an article must be made as and for butter or cheese, the product of the dairy. See, to the effect that such a clause is unconstitutional, *People vs. Arensberg*, 103 N. Y., 388.

NOTE.— **Origin.**— This section, except as to the penalty, is a copy of a part of section 8, chapter 183, laws of New York, 1885.

**Validity.**— Section 7, chapter 183, laws of New York, 1885, “prohibits: 1st. The manufacture out of any animal fat, or animal or vegetable oils not produced from unadulterated milk or cream from the same, of any product in imitation or semblance or designed to take the place of natural butter produced from milk, etc. 2d. Mixing, compounding with, or adding to milk. cream or butter, any acids or other deleterious substances, or animal fats, etc., with design or intent to produce any article in imitation or semblance of natural butter. 3d. Selling, or keeping or offering for sale any article manufactured in violation of the provisions of this section.”

*Held*, that if butter made from animal fat or oils is as wholesome and nutritious and suitable for food as dairy butter, the producers of butter made from animal fat or oils have no constitutional right to resort to devices for the purpose of making their products resemble in appearance the more expensive article known as dairy butter. It is competent for the legislature to enact laws to prevent the simulated article being put upon the market in such a form and manner as to be calculated to deceive. The statute is intended to reach a designed and purposed imitation of dairy butter in manufacturing the product which is not such butter, and not a resemblance in qualities inherent in the articles and common to both kinds of butter. *People vs. Arensberg*, 105 N. Y., 123.

A state may lawfully prohibit the manufacture out of oleaginous substances, or out of any of its compounds, other than that produced from unadulterated milk or cream from such milk, of an article designed to take the place of butter or cheese produced from unadulterated milk. It may also prohibit the manufacture, or sale, or the offering for sale, of any imitation or adulterated butter or cheese, or the having of it in possession with intent to sell the same as an article of food. *Powell vs. Pennsylvania*, 127 U. S., 678.

Though it may be severe to punish those who unintentionally sell the article prohibited, the legislature has power to so provide in order that the much larger number may be protected. *State vs. Newton*, 14 Atl. Rep., 604.

The supreme court of New Jersey has held that a statute enacted for a purpose similar to that which caused the passage of this act is not invalid because it prohibits the sale of oleomargarine brought to that state from other states and not intended for further transportation. The act produces only an indirect and incidental effect upon interstate commerce. *State vs. Newton*, 14 Atl. Rep., 604.

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## ADULTERATED HONEY MUST BE MARKED.

*Part of Chapter 40, Laws of 1881.*

SECTION 2. Every person, company or corporation, who shall sell or offer for sale, honey, or any imitation of honey, which is adulterated with glucose, or any other substance, shall mark the package or parcel with the words "adulterated honey," as required by section 1 of this act.

NOTE.—Section 1, of chapter 40, laws of 1881, related to the manufacture of imitation butter, and provided that each firkin, tub, package or parcel thereof, should be marked on top of same in letters not less than one-half inch in length, and breadth in proportion, and in such manner that it may

be plainly seen. As applied to butter the said section was repealed by chapter 361, laws of 1885. Section 3, of the act of 1881, related to imitation cheese. It was also repealed by the act of 1885.

SECTION 4. Any person found guilty of any violation of this act, shall, for each offense be punished by imprisonment in the county jail, not less than ten days nor more than six months, or by a fine of not less than ten dollars nor more than one hundred dollars, or both, in the discretion of the court.

SECTION 5. One-half of all the fines imposed by the enforcement of this act shall be paid to the person who informs against and prosecutes such offender to conviction.

SECTION 6. All acts or parts of acts conflicting with the provisions of this act are hereby repealed.

SECTION 7. This act shall take effect and be in force from and after its passage and publication.

Approved March 3, 1881.

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#### PENALTY FOR THE SALE OF UNWHOLESOME PROVISIONS.

##### *Section 4599, Revised Statutes.*

SECTION 4599. Any person who shall knowingly sell any kind of diseased, corrupt or unwholesome provisions, whether for meat or drink, without making the same fully known to the buyer, shall be punished by imprisonment in the county jail not more than six months, or by fine not exceeding one hundred dollars.

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#### ADULTERATION OF FOOD, LIQUORS AND CANDIES.

##### *Section 4600, Revised Statutes.*

SECTION 4600. Any person who shall fraudulently adulterate, for the purpose of sale, any substance intended for food, or any wine, spirits, malt liquor, or other spirituous liquors, or any other fluid, intended for drinking or any candy or sweetmeat, with any substance, coloring matter, or anything poisonous, deleterious or injurious to health, or who shall knowingly manufacture, sell, or offer for sale, any such adulterated food, liquor, candy or sweetmeat, shall be punished by imprisonment in the county jail, not more than six months, or by fine not exceeding one hundred dollars, and any article so adulterated shall be forfeited and destroyed.

NOTE.—See chapter 248, law of 1879, *infra*, which appears to supersede this section in part.

## ADULTERATION OF FOOD AND DRUGS — DECEPTIVE LABELING OF.

*Chapter 248, Laws of 1879.*

SECTION 1. No person shall mix, color, stain, powder, order or permit any other person to mix, color, stain or powder any article of food with any ingredient or material so as to render the article injurious to health, with intent that the same may be sold in that condition. And any person that shall sell any such article so mixed, colored, stained or powdered, shall be subjected to a penalty in each case not exceeding a fine of fifty dollars for the first offense, and for a second offense shall be punished by imprisonment in the state prison for a period not exceeding one year, with hard labor.

SECTION 2. No person shall, except for the purpose of compounding as hereinafter described, mix, color, stain or powder, or permit any other person to mix, color, stain or powder any drug with any ingredient or material so as to effect injuriously the quality or potency of such drug, with intent that the same may be sold in that condition. And any person who shall sell any such drug so mixed, colored, stained or powdered shall be liable to the same penalty or punishment in each case respectively, as in the preceding section, for a first and subsequent offense; provided, that no person shall be liable to be convicted under the foregoing sections of this act, in respect to the sale of any article of food or of any drug, if he shows to the satisfaction of the justice or court before whom he is charged that he did not know of the article or drug sold by him being so mixed, colored, stained or powdered, as in that section mentioned, and that he could not, with reasonable diligence, have obtained that knowledge; or that such mixing, coloring, staining, or powdering was required for the production, extraction, preparation, preservation, consumption or transportation as an article of commerce in a state fit for carriage; or where the drug or food is supplied in the state required by the specification of the patent in force; or that the food or drug was unavoidably mixed with some extraneous matter in process of collection or preparation.

SECTION 3. Every person who shall compound or put up for sale any food, drug or liquor, in casks, boxes, bottles or packages, with any label, mark or device whatever, so as and with intent to mislead or deceive as to the true name, nature, kind and quality thereof, shall be liable to a penalty of not to exceed five hundred dollars for the first offense, and for every offense after the first offense shall be punished by imprisonment in the state prison for not less than one year nor more than ten years.

SECTION 4. The term "food" as herein used shall include every article used for food or drink by man other than drugs. The term "drug" shall include medicine for internal or external use.

SECTION 5. This act shall take effect and be in force from and after the first day of July, after its passage and publication.

Approved March 5, 1879.

## ADULTERATION OF DRUGS AND MEDICINES.

*Section 4601, Revised Statutes.*

SECTION 4601. Any person who shall fraudulently adulterate, for the purpose of sale, any drug or medicine in such a manner as to render the same injurious to health, shall be punished by imprisonment in the county jail, not more than one year, or by fine not exceeding three hundred dollars.

NOTE.—See chapter 248, laws of 1879, *supra*.

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## COLORING GRAIN.

*Section 4606, Revised Statutes.*

SECTION 4606. Any person who shall fumigate any barley, wheat, or other grain, by the use of sulphur or other substance, or shall in any way, or by the use of any chemical, material or process, affect the color or healthfulness of such grain, or who shall sell or offer for sale any such grain, knowing that the same has been so fumigated, or the color or healthfulness thereof so affected, shall be punished by imprisonment in the county jail, not more than one month, or by fine not exceeding fifty dollars.

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## OF THE ANALYSIS OF FOODS, DRUGS AND DRINK.

*Chapter 252, Laws of 1880.*

SECTION 1. The governor of the state shall appoint one of the professors of the state university of sufficient competence, knowledge, skill and experience, as state analyst, whose duty it shall be to analyze all articles of food and drink, and all drugs and liquors manufactured, sold or used within this state, when submitted to him as hereinafter provided. The term of office of such analyst shall be three years from his appointment, unless sooner removed by the appointing power, and his compensation shall not exceed two hundred dollars in addition to his annual salary as professor, and shall be paid by the board of regents of the state university from the university fund.

SECTION 2. The state board of health and vital statistics, medical officers of health, inspectors of weights and measures, boards of supervisors of any town, board of trustees of any village, aldermen or common council of any city in this state, or a majority of said corporate bodies, may at the cost of their respective corporations, purchase a sample of any food,

drugs or liquors offered for sale in any town, village or city in this state, in violation of sections number one, two and four of chapter two hundred and forty-eight of laws of A. D. 1879, or if they have good reasons to suspect the same to have been sold, or put up for sale, contrary to the provisions of said chapter two hundred and forty-eight, may submit the same to the state analyst as hereinafter provided, and the said analyst shall, upon receiving such article duly submitted to him forthwith analyze the same, and give a certified certificate to such person or officer submitting the same, wherein he shall fully specify the result of the analysis.

SECTION 3. Any person purchasing any article with the intention of submitting it to an analysis, shall after the purchase shall have been made and completed, forthwith notify the seller or his agent selling the same, of his or their intention to have the same analyzed by the state analyst, and shall offer to accompany the seller or his agent with the article purchased to the town, village or city clerk of the place in which the article was bought, and shall forthwith remove the article purchased to the office of said clerk, and in the presence of the seller or his agent, if present, divide said article in two parts, each to be marked, fastened and sealed up in such a manner as its nature will permit. The said clerk shall forthwith forward one part to the state analyst by mail, express or otherwise, as he shall elect, and shall retain the other part or package subject to the order of any court in which proceedings shall thereafter be taken. The certificate of the state analyst shall be had in all the courts of this state as prima facie evidence of the properties of the articles analyzed by him.

SECTION 4. If any person applying to purchase any article of food, drug or liquor exposed for sale or on sale by retail on any premises in any town, village or city in this state, and shall tender the price of the quantity which he shall want, for the purpose of analyzing, not being more than shall be reasonably required, and the person exposing the same for sale shall refuse to sell the same, such person so refusing to sell shall be liable to a penalty not exceeding fifty dollars.

SECTION 5. The state analyst shall report to the state board of health and vital statistics the number of all the articles analyzed, and shall specify the results thereof to said board annually, with full statement of all the articles analyzed and by whom submitted.

SECTION 6. The state board of health and vital statistics may submit to the state analyst any samples of food, drugs or drink for analysis as hereinbefore provided.

SECTION 7. This act shall take effect and be in force from and after its passage and publication.

Approved March 15, 1880.

## THE PREVENTION OF FRAUD IN DAIRY MANUFACTORIES.

*Section 1494a, Revised Statutes.*

Any butter or cheese manufacturer who shall knowingly use, or allow any of his employes or any other person to use for his or their own individual benefit, any milk or cream from the milk, brought to said butter or cheese manufacturer, without the consent of all the owners thereof, or any butter or cheese manufacturer who shall refuse or neglect to keep, or cause to be kept, a correct account (open to the inspection of any one furnishing milk to such manufacture), of the amount of milk daily received, or of the number of pounds of butter, and the number and aggregate weight of cheese made each day, or the number cut or otherwise disposed of, and the weight of each, shall, for each and every offense, forfeit and pay a sum of not less than twenty-five dollars, nor more than one hundred dollars, to be recovered in an action in any court of competent jurisdiction, one-half for the benefit of the person or persons, firm or association, or their assigns, upon whom such fraud or neglect shall be committed, first having made complaint therefor, the remainder to the school fund.

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TEXT AND SUGGESTIONS RELATING TO THE LAW PASSED BY  
THE LEGISLATURE OF 1891.

*This act repeals Chap. 240, Laws of 1887, as amended by Chap. 455, Laws of 1889.*

SECTION 1. Chapter 455 of the Laws of 1889 is hereby repealed.

SECTION 2. Every person who shall, at any cheese factory in the state, manufacture cheese, shall distinctly and durably stamp upon each and every such cheese, whether cheddar, twin, flat or Young America, or by whatever name or style known, upon the sale thereof, in full faced capital letters, the grade of the same, as, "Wisconsin full cream," "standard," or "skimmed," as hereafter provided for in this act, together with the name of the city, village or town where such factory shall be located.

SECTION 3. Such cheese only as shall have been manufactured from pure and wholesome milk, and from which no portion of the butter fat shall have been removed by skimming or by any other process, and in the manufacture of which neither butter nor any substitute for butter or other animal or vegetable fats or oils have been used, nor any fat which has been extracted from milk in any form and returned for the purpose of filling the cheese, shall be stamped "Wisconsin full cream." All cheese manufactured as above required from pure and wholesome milk, but from

which a portion of the fat has been removed, shall if it contain not less than thirty per centum of pure butter fat, be stamped or branded "standard." All cheese containing less than thirty per centum of pure butter fat shall be stamped "skimmed."

SECTION 4. The stamp provided for in this act designating the grade of cheese shall be such as to produce an impression not less than three inches in width and five inches in length, and the words "Wisconsin full cream," "standard," or "skimmed," together with the name of the city, village or town where the cheese shall have been manufactured, as provided for in the foregoing sections of this act, shall be in full-faced capital letters of as large a size as the space hereby provided for will permit, and the whole to be included within a plain heavy border. Ordinary "stamping inks, either red, green, purple or violet in color, and of such composition as not to be easily removed or wholly obliterated by moisture, shall be used in stamping, as provided for in this act

SECTION 5. Any manufacturer of cheese who shall sell or dispose of any cheese without being stamped as required by this act, or who shall falsely stamp the same, and any dealer or other person who shall remove such stamp from cheese, shall, upon conviction thereof, be fined not less than fifty nor more than one hundred dollars for the first offense, and for each subsequent offense not less than one hundred nor more than two hundred dollars or be imprisoned in the county jail not less than thirty nor more than ninety days, or both, in the discretion of the court before whom such conviction may be had. One half of all the fines collected under the provisions of this act shall be paid to the person or persons furnishing the information upon which such conviction is procured.

SECTION 6. Nothing in this act shall be construed to apply to edam, brickstein, pineapple, limburgger, Swiss or hand cheese, or other cheese by whatever name or style known not made by the ordinary cheddar process.

SECTION 7. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

SECTION 8. This act shall take effect and be in force from and after its passage and publication.

There are three distinctive brands under the law quoted.



**No. 1, Full Cream Cheese.**

**WISCONSIN**

**FULL CREAM CHEESE**

**Fond du Lac, Wis.**

All cheese made by the cheddar process and made from milk from which no fat has been taken, shall bear brand No. 1.

No. 2, Standard Cheese.

# STANDARD CHEESE

Fond du Lac, Wis.

All cheese made by the cheddar process, and made from milk from which any fat has been taken, but still leaving not less than thirty per cent. of fat in the cheese shall bear brand No. 2.

**No. 3, Skimmed Cheese.****SKIMMED CHEESE****Fond du Lac, Wis.**

All cheese made by the cheddar process, and made from milk from which enough fat has been taken so that the cheese is left with less than thirty per cent. of fat, shall bear brand No. 3.

The law provides that the stamp or brand shall be not less than three by five inches, and inclosed by a plain heavy border. The ink shall be indelible, so that it will not rub off. The brand or stamp is to be placed upon the bandage of the cheese. A rubber stamp costs about the same as a stencil and does much better work.

The name of the manufacturer cannot be placed inside the border. If the maker wishes his name to appear, it can be placed on the cheese anywhere except within the impression.

The law of 1889, which provided for marking the box, is repealed.

Rubber stamp manufacturers are in possession of this law, and you can be provided with stamps by any of them. The firm from which you buy your supplies, can furnish you the necessary stamps.

Filling cheese with foreign fat is prohibited by chapter 424, laws of 1889.

Enriching skim milk with butter is prohibited by chapter 264, laws of 1891, also by chapter 165, laws of 1891.

#### TO THE WISCONSIN DEALERS AND MANUFACTURERS OF VINEGAR.

*Text and suggestions relating to the law passed by the legislature of 1891.*

SECTION 1. Every person who manufactures for sale, or offers or exposes for sale, as cider vinegar, any vinegar not the legitimate product of pure apple juice, known as apple cider, or vinegar not made exclusively of said apple cider, or vinegar into which foreign substances, drugs or acids have been introduced, as may appear by proper tests, shall be deemed guilty of a misdemeanor.

SECTION 2. Every person who manufactures for sale, or offers for sale, any vinegar, found, upon proper tests, to contain any preparation of lead copper, sulphuric acid, or other ingredient injurious to health, shall be deemed guilty of a misdemeanor.

SECTION 3. No person, by himself, his servant or agent, or as the servant or agent of any other person, shall sell, exchange, deliver, or have in his custody or possession, with intent to sell or exchange, or expose or offer for sale or exchange, any adulterated vinegar, nor shall he label, brand or sell as cider vinegar, or as apple vinegar, any vinegar not the legitimate product of pure apple juice, or not made exclusively from apple cider.

SECTION 4. All vinegar shall have an acidity equivalent to the presence of not less than four per cent. by weight, of absolute acetic acid, and, in the case of cider vinegar, shall contain in addition not less than two per cent. by weight, of cider vinegar solids upon full evaporation over boiling water at 212°; and if any vinegar contains any artificial coloring matter injurious to health, or less than the above amount of acidity, or in the case of cider vinegar, if it contains less than the above amount of acidity or of

cider vinegar solids, it shall be deemed adulterated within the meaning of this act. All manufacturers of vinegar in the state of Wisconsin, and all persons who reduce or re-barrel vinegar in this state, and all persons who handle vinegar in lots of one barrel or more, are hereby required to stencil or mark in black figures at least one inch in length on the head of each barrel of vinegar bought or sold by them, the standard strength of the vinegar contained in the package or barrel, which shall be denoted by the per centum of acetic acid. And any neglect so to mark or stencil each package or barrel, or any false markings of packages or barrels, shall be deemed a misdemeanor.

SECTION 5. Whoever violates any of the provisions of this act shall be deemed guilty of a misdemeanor and shall be punished by a fine not less than ten nor more than one hundred dollars and costs.

SECTION 6. This act shall take effect and be in force from and after its passage and publication.

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Section 1 provides that any person who makes cider vinegar shall sell it as such.

Section 2 provides that no injurious ingredients shall be used in the manufacture of vinegar.

Section 3 provides that no person or his agent, shall sell adulterated or spirit vinegar as cider vinegar.

Section 4 provides that all vinegar shall test not less than 4 per cent. of acetic acid, and that cider vinegar shall contain not less than two per cent. of solids, and that manufacturers and reducers, and persons who handle vinegar, shall brand upon the head of barrel, in letters not less than one inch, the per centum of acetic acid, as follows:

## ACETIC ACID 4 PER CENTUM.

Chapter 248, Laws of 1879, provides that no label, mark or device shall be upon any package or cask, which shall mislead or deceive as to the true contents.

The law relating to the branding of casks will be enforced on and after June 1st, 1891.

## THIS ACT REPEALS CHAPTER 185, LAWS OF 1887.

SECTION 1. No person shall sell, exchange, expose or offer for sale or exchange, or ship or consign, or have in his possession with intent to sell, ship or consign any substance purporting, appearing, or represented to be butter or cheese, or having the semblance of either butter or cheese, which substance is not made wholly and directly from pure milk or cream, salt and harmless coloring matter, unless it be done under its true name, and each vessel, package, roll or parcel of such substance has distinctly and durably painted, stamped, stenciled or marked thereon the true name of such substance in ordinary bold-faced capital letters, not less than five line pica in size, or sell or dispose of in any manner to another, any such substance in quantities less than the original package, without delivering with each amount sold or disposed of, a label, on which is plainly and legibly printed in ordinary bold-faced capital letter not less than five line pica in size, the true name of such substance.

SECTION 2. No person or persons shall manufacture out of any oleaginous substance or substances, or any compound of the same other than that produced wholly, directly and at the time of manufacture from unadulterated milk or cream, salt and harmless coloring matter, any article in imitation of or designed to be sold, shipped or consigned as butter or cheese. Nothing in this section shall prevent the use of pure skimmed milk in the manufacture of cheese; but cheese made wholly or in part from skimmed milk should be plainly labeled, "skimmed."

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*(This section repeals chapter 424, laws of 1889.)*

SECTION 3. No person or persons shall manufacture, mix, compound with or add to natural or pure milk, cream, butter or cheese, any animal fats, animal, mineral or vegetable oils, or extraneous butter fat or oil, nor shall any person or persons manufacture any oleaginous or other substance not produced wholly and at the time from pure milk or cream, salt and harmless coloring matter, or have the same in his possession with intent to offer or expose the same for sale or exchange, or sell, consign, ship, or in any manner dispose of the same as and for butter or cheese, nor shall any substance or compound so made be sold or disposed of to any one as and for butter or cheese.

SECTION 4. No person or persons shall sell, exchange, expose or offer for sale or exchange, dispose of, ship or consign or have in his possession any

substance or article made in imitation or resemblance of any dairy product which is falsely branded, stenciled, labeled or marked.

SECTION 5. Every person in this state who shall deal in, keep for sale, expose or offer for sale or exchange, any substance other than butter or cheese, made wholly and directly from pure milk or cream, salt and harmless coloring matter, which appears to be, resembles or is made in imitation of, butter or cheese, shall keep a card, not less in size than ten by fourteen inches, posted in a conspicuous and visible place, where the same may be easily seen and read, in the store room, stand, booth, wagon or place where such substance is so kept or exposed for sale, on which card shall be printed on a white ground, in bold, black Roman letters, not less in size than twelve line pica, the words, "oleomargarine," "butterine," or "imitation cheese" (as the case may be) "sold here," and said card shall not contain any other words than the ones above prescribed; and no person shall sell any oleomargarine, butterine, imitation cheese or other imitation dairy product, at retail or in any quantity less than the original package, tub or firkin, unless he shall first inform the purchaser that the substance is not butter or cheese, but an imitation of the same.

SECTION 6. Every proprietor, keeper or manager, or person in charge of any hotel, boarding house, restaurant, eating house, lunch counter, or lunch room, who therein sells, uses or disposes of any substance which appears to be, resembles, or is made in imitation of butter or cheese, under whatsoever name, and which substance is not wholly and directly made from pure milk or cream, salt and harmless coloring matter, shall display and keep a card posted in a conspicuous place, where the same may be easily seen and read, in the dining room, eating room, lunch room, restaurant and place where such substance is sold, used or disposed of, which card shall be white, and in size not less than ten by fourteen inches, upon which shall be printed in plain, black, Roman letters, not less in size than twelve line pica, the words "oleomargarine used here," "butterine used here," or "imitation cheese used here," (as the case may be) and said card shall not contain any other words than the ones above prescribed, and such proprietor, keeper, manager or person in charge shall not sell, furnish or dispose of substance as and for "butter or cheese" made from pure milk or cream, salt and harmless coloring matter, when butter or cheese is asked for.

SECTION 7. No butter or cheese not made wholly and directly from pure milk or cream, salt and harmless coloring matter shall be used in any of the charitable or penal institutions of the state.

SECTION 8. Any person or persons violating any of the provisions or sections of this act, shall, upon conviction thereof, be fined not less than twenty-five nor more than fifty dollars for the first offense, or for each subsequent offense not less than fifty nor more than one hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days or both.

SECTION 9. One-half of all the fines collected under the provisions of this act shall be paid to the person or persons furnishing information upon which conviction is procured.

SECTION 10. All acts or parts of acts controvening the provisions of this act are hereby repealed.

SECTION 11. This act shall take effect and be in force from and after its passage and publication.

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I find that the sentiment of the general public and especially of the farming community, is becoming more interested in this commission. For a time, the idea was prevalent among the farmers that the principal work of the Dairy and Food Commission was to perform a sort of detective duty and to be always on the alert to catch them in some fraud.

Beyond question, it is the duty of this department to prevent fraud or adulteration in any dairy or food product but those who are innocent of any deception need not be in the least fear of any sort of irksome surveillance.

It is now generally recognized that the only way to market milk, and especially where it is sold to cheese factories or creameries, is to sell it by the ratio of butter-fat that it contains.

Selling milk, regardless of quality, for the purpose of making cheese or butter, is just as absurd as selling hogs by the dozen, the same as eggs. The ingredient that determines the value of the milk is the butter-fat and it is not only unbusiness like but unjust and unlawful that a man who skims and waters his milk should receive the same price for an article that contains but two and one-half per cent. as the man who delivers a clean, unadulterated article containing four or five per cent. of butter-fat.

If no tests are made of the milk received at a cheese factory or a creamery, the only gauge the manager has to follow is the number of pounds of cheese or butter that all the milk delivered makes and if he pays the different patrons on this basis, the man who delivers good milk is paid no more than the man who previously removes a portion of the cream and converts it to his own use or makes it into butter and sells it on the market.



The use of the Babcock test in the factory will remove this objection, and if payment is made upon the actual results of the test, each man is paid for exactly what he delivers and, moreover, the farmer who persistently waters or skims his milk is soon detected and is laid liable to the law for the deception that he endeavors to practice.

The standard adopted by the State, viz., three per cent. of butter-fat is none too high and it has been the experience of the members of this commission that the standard might be raised to three and one-half per cent. and do no injustice to the large majority of the patrons of our creameries and cheese factories.

There is no doubt but that deception has been and is largely practiced but where this commission has taken samples or where the proprietor has provided himself with a reliable test to determine the butter-fat, this practice is being gradually abandoned and the result is, that instead of being a detriment to the milk producer, the work of this commission is to his direct benefit.

This commissioner has had occasion to visit a large number of factories during his term of office, and at some of them, has met with considerable opposition on the part of patrons, but in every instance, when the real and fundamental object of the work has been explained to them, he has not only allayed any feeling of enmity but has received the cordial thanks and warm support of all. The farmers and dairymen are not slow to realize that each one of them who produces rich milk is being robbed by the dishonest patron of the factory as effectually and as surely as though he were "held up" at the point of a revolver and told to stand and deliver.

The large number of complaints received from milk dealers and factories and the number of samples of cheese and vinegar received for analysis have taken up much of the time of the members of this commission for their proper attention, but a constantly growing number of samples of food-stuffs have been procured and work upon them is being pushed as rapidly as the duties of the chemist will permit.

It is an open secret that almost every granulated sugar on

the market is more or less adulterated with glucose, if with nothing more harmful, and it is such gigantic frauds as this that merit the attention of everyone that is interested in the adoption of laws that will compel the huge corporations that put forth such necessary articles of consumption to regard the health and legal rights of the public.

Teas, coffees, spices, baking-powder and, in fact, almost all of the culinary supplies are adulterated in many instances and the average consumer is not in a position to determine when he is defrauded nor is he in a position to successfully resent the deception, were he able to detect it.

Of late years, spurious coffees have appeared upon the market and are advertised openly, without any attempt to conceal either their composition or purpose.

The prices quoted on these imitations are astonishingly low, ruling, in one case, at six cents per pound in small lots, and at five and one-half cents in barrel lots.

These artificial coffee beans are made in close imitation of the genuine article and, taken in their unmixed state, would deceive the eye of all but the most observing and skilful buyer.

Upon a mere cursory examination, the most particular housewife would pronounce them to be coffee beans of an excellent color and good roast.

Without doubt, the most common adulterant of coffee is chicory, but these coffee "pellets," as they are sometimes called, are fast supplanting chicory on account of their smaller cost.

The pellets are composed of rye or wheat flour, are moulded in the shape of the genuine bean and held together by means of glucose or some similar vehicle, and are colored in imitation of a roasted coffee.

Of course they have none of the properties of coffee nor do they resemble it either in taste or smell, but when mixed with the genuine article, even in so large a quantity as thirty or forty per cent., they are not easily detected except by expert examination.

It is not an uncommon practice to treat inferior or damaged coffees by some process for the improvement of their appearance and in imitation of superior grades.

Java seems to have been especially subject to this treatment or rather other coffees are colored in imitation of Java.

South American coffees are often exposed to a high, moist heat which changes their color from green to brown, thus forming imitation Java.

Various pigments are also used in coloring coffees. The Division of Chemistry of the United States Department of Agriculture found as high as one twenty-fourth grain of Scheele's green in one-half ounce of coffee. Scheele's green is a combination of copper and arsenious acid, both violent poisons.

Yellow ocher, silesian blue, chrome yellow, burnt umber, venetian red, drop black, charcoal and French black have been used to color coffees and it is polished by rotation in cylinders with soapstone. Raw coffees which have been damaged by sea water are washed, decolorized with lime water, again washed, rapidly dried and colored by a slight roasting by azo-orange. By this method Santos coffees are converted into imitation Javas.

The weight lost is regained by steaming and then coating the beans with glycerine, palm oil or vaseline to prevent evaporation.

Coffees are sometimes faced with Prussian blue or indigo, lead chromate, etc. The following list of facing mixtures is from the published investigations of K. Sykora.

- (1) Mixtures of indigo, lead chromate, coal and clay.
- (2) (Approximately) 5 parts indigo, 10 parts coal, 4.5 parts lead chromate, 65.5 parts clay and 15 parts ultramarine.
- (3) (Approximately) 5 parts indigo with some yellow dye, 3 parts coal, 8 parts lead chromate, 82 parts clay, 2 parts ultramarine.
- (4) (Approximately) 12 parts indigo, and some yellow dye, 5.5 parts coal, 4.5 parts lead chromate, 6.6 parts clay and 12 parts ultramarine.

The most criminal part of adulteration of this sort is that the cheapest classes of goods suffer the most and the very people who can least afford to be preyed upon are the very ones at whom these acts are directed.

The dealer who caters to those in the humbler walks of life

is, nine times out of ten, compelled to sell his wares at a merely nominal profit and unless he is shrewd enough and firm enough to refuse to extend credit, he suffers by the loss of accounts that he has allowed to run or been unable to collect, and to compensate himself for this loss, he too often resorts to substitution and adulteration. Many articles that in themselves are not deleterious are sold fraudulently and in these instances, it is the aim of the laws of this state and the endeavor of this commission to protect not only the health but also the pocket-books of the people of Wisconsin.

These artificial coffees are not injurious in many instances, but when they are sold for the genuine bean, is where the pocket-book is affected.

If stringent laws, bearing upon this form of adulteration were enacted and were rigidly enforced, the market would be effectually freed from this source of evil for there would be little or no sale for an article that is confessedly spurious and of inferior quality.

Another method that is used to defraud the innocent purchaser is the so-called "sweating" of coffees and spices.

The coffee or spice is subjected to a process of extraction, whereby the essential oils and other principles are removed and after being re-roasted and colored, and, in some instances, chemically doctored to impart something of its original flavor, it is put upon the market as being genuine and sold as such.

This process, of course, allows the dishonest dealer to reap two profits upon each lot of goods.

It is especially employed in the extraction of the vital principle of coffee, of most of the spices that have an acrid oil, as mustard, and also upon the various sources of the flavoring extracts, especially upon the vanilla bean.

The most of the flavoring extracts upon the market and more especially those exhibiting the qualities of the tropical fruits, the banana, pine-apple, etc., are prepared from ethers and artificial flavoring agents that are certainly most injurious.

The so-called "Almond" flavoring extract is made in many cases from the Oil of Myrbane or from Nitrobenzol, both of which are exceedingly poisonous.

In reviewing the various forms of adulteration, the falsification and adulteration of drugs cannot be too strongly condemned. It should be regarded as a far more heinous crime than the cheapening of some of the commoner articles of daily consumption.

We employ drugs only in cases of direst necessity and upon their action, many times, hangs by a slender thread, the lives of those who are dear to us.

For instance, the doctor gives his patient a carefully calculated dose of Henbane, and not receiving the result that he anticipated, increases the dose until he gets the desired effect.

Perhaps, in this instance, his patient recovers, and the good doctor, believing his druggist the soul of honor, as indeed he is, for adulteration is seldom practiced among the retailers, makes a mental note of the fact that the patient has a peculiar idiosyncrasy in that he needs a much larger dose of Henbane than that commonly given to obtain any benefit from it.

Let us suppose that this same patient has a relapse and once more calls in the doctor. The medical man instantly remembers that he gave a very large dose of Henbane in his former treatment before the disease scumbed, and he now decides to at once give what would appear be a dangerous dose.

He does so and sends the prescription to the druggist, who, in the meantime has procured some of the solid extract of the drug that has not passed through the tender hands of the sophisticator, and he compounds the physician's prescription from this new supply.

The patient takes it, his symptoms become alarming and he may even die, and all the doctor can do is to marvel at the peculiarities of this man who could take an extremely large dose of Henbane in June, but who was poisoned by precisely the same dose in July.

Although the purpose and scope of this commission are now better understood than they formerly were, still, letters are received stating that samples have been forwarded for analysis and asking that the bill for the work be sent to the consignor.

In some instances, where the Commissioner or his assistants have visited factories, surprise has been expressed by the proprietors when his offers of remuneration have been refused.

Until a little over a year ago, it was not generally understood that this work was being done for the improvement of the dairy and food supply and was being paid for by the State of Wisconsin in the same manner as the other institutions that are provided, at State expense, for the direct benefit of the people.

It is highly gratifying that the objects of the Dairy and Food Commission are now being more generally appreciated and its method of working more fully understood.

The dairy interest of this state is constantly growing and at the same time, it must not be overlooked that the main object of this work does not consist entirely of fostering the interests of this branch of commerce, but is directed toward the task of keeping pure and wholesome that vast amount of food stuff that is consumed by nearly two millions of people of this state

D. L. HARKNESS,  
Commissioner

## REPORT OF STATE CHEMIST.

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HON. D. L. HARKNESS,

Wisconsin Dairy and Food Commissioner.

SIR:—I have the honor to submit, herewith, my report as State Chemist, covering the work done up to October 1st, 1892.

Assuming the position on September 1st, of the current year, it is perhaps, permissible, to make a few explanations as to the ground covered by it.

My predecessor having submitted the results of his work, without any comment upon the same, it devolves upon me to write the entire report of the chemist, excepting the tabulated results of the laboratory work, for the period that has elapsed since the last report of this commission was issued in 1890.

In chemical work, as in almost every other vocation in life, each man has certain peculiarities in his methods of working and while I can readily deduce a series of general conclusions from the work that I have personally performed, it would be neither right nor just to either party, should I attempt to formulate the work done by the gentleman whom I succeeded in a line which he might perhaps conclude that his results did not warrant.

The mere statement of results is but a meagre part of the knowledge that is acquired from a series of chemical investigations and I have therefore tabulated the work of my predecessor and inserted it—without any comment, whatever.

Upon entering the duties of the position as chemist to this important commission, my first work was to thoroughly overhaul and put in order the laboratory.

While I found the laboratory fully and adequately equipped for almost any occasion, possible or likely to arise in performing the line of work embraced in the scope of dairy and

adulterations, there were various changes in the minute details of the rooms that I made to suit my convenience.

In the limited time I have been in charge of this laboratory, I have finished the examination of the Wisconsin beers, commenced by my predecessor, a detailed statement of which, together with the other analyses made, will be found in the proper columns.

It is the writer's intention to devote what time is not consumed in the routine of laboratory work to the examination of food supplies, paying special attention to teas, coffees, sugars and the other staple articles of large and daily consumption and to also devote a portion of the time to the careful examination of drugs, all of which articles, experience teaches are now and have been, largely adulterated.

These results will necessarily appear in the report following this one and covering the work done during the twelve months ending October 1st, 1893.

#### BEER.

Twenty-two samples of beer, some of which were manufactured in other states and countries, but the majority being products of the various breweries in Wisconsin, have been examined.

Personally, I have examined the following brands:

Lager Beer manufactured by J. Oberman Brewing Co., Milwaukee.

Extra Pale manufactured by Schlitz Brewing Co., Milwaukee.

Culmbacher manufactured by Falk, Young & Borchert, Milwaukee.

Pilsener manufactured by Falk, Young & Borchert, Milwaukee.

Lager Beer manufactured by A. Gettleman, Milwaukee.

Extra Brew, manufactured by J. Oberman Brew Co., Milwaukee.

Lager Beer manufactured by Scheibe & Schneider, Marchfield. Standard.

There were no samples of beer taken from packages in wood



on account of the difficulty of sampling properly and these beers were all contained in glass.

Those which came under my observation were all of a high quality.

There seems to be a popular impression that beers and especially bottled beers, are largely adulterated, but my experience both with this lot and other samples, has led me to believe that this is largely imaginary.

Excessive indulgence in beer, usually coupled with unwise and indiscriminate eating is to a great extent responsible for the charges that are laid to the door of adulterated beer.

The brewer who has a reputation to maintain cannot afford, in any sense, to so contaminate his product as to injure the health nor to offend the palate of his customers and the comparatively small quantity of hops that are used in brewing, would not leave a sufficient margin to warrant him in using a cheaper and a more deleterious substitute.

From the investigations of the New York Board of Health, it appears that the recent adulteration of American beer, more especially of "lager-beer" is limited, so far as the brewer is concerned, to the use of various substitutes for malt, the addition of salt and of sodium bi-carbonate.

The proportion of diastase obtained by the germination of barley, or other cereals, is largely in excess of the amount required to convert into sugar the starch actually present in the grain treated; hence the brewer can add other forms of amylaceous substances, such as corn or rice, to malted barley with decided economy and the majority of New York brewers employ such substitutes, usually in a proportion of 25 per cent.

The brewer may, likewise add glucose to the malt infusion, since, by its use, he arrives at the same end, i. e., instead of obtaining all of his sugar by the malting process, he directly provides himself with the same body, at least so far as it possesses value to him as a source of alcohol.

The question of the sanitary effects of the use of artificial glucose as an adulterant of sugar and syrups and as a substitute for malted grain in the manufacture of beer has given rise to extensive controversy.

In this regard, one fact seems to have been demonstrated. Glucose, as it is now found upon the market, is free from any appreciable amount of deleterious contamination. The discovery of its artificial production has given birth to a very important branch of industry and, according to all available reports, the commercial product at present met with, is for many purposes, an economical and harmless substitute for cane sugar, the chief objection to its application, as such, being the fact that it possesses considerably less sweetening power.

The United States National Academy of Sciences, after having carefully investigated the sanitary aspects of the glucose question, arrived at the following conclusion:

"That, though having at best only about two-thirds of the sweetening power of cane sugar, yet starch sugar is in no way inferior to the cane sugar in healthfulness, there being no evidence before the committee that maize-starch sugar, either in its normal condition or fermented, has any deleterious effect upon the system, even when taken in large quantities."

In regard to the use of glucose as a substitute for malt in beer making, it is asserted by some authorities that dietetic advantages to be derived from the pure malt will be to some extent wanting in the extractive matters of beer manufactured partially from the artificial product.

The brewer, on the other hand, claims that sugar is sugar, whether obtained from the malting of grain or the conversion of starch by the aid of acids.

The extreme care with which glucose is manufactured precludes all possibility of any injurious constituent being present and there seems to be no sufficient reason to believe that its addition to any beer could produce the least harm.

It is gratifying to be able to state, also that all the samples of beer examined were free from any traces of preservatives.

The breweries of Wisconsin may justly be accorded a standing second to none of any other state in the country and their products will compare very favorably with those of any foreign country.

## ANALYSES OF BEER.

Laboratory number.	Brand.	By whom made.	Address.	Sp. gr.	Alcohol.		Malt extract	Solids.	Ash.	Mal-tose.	Dex-trin.	Remarks.
					Vol.	Wt.						
5556	Lager	J. Oberman Brew Co	Milwaukee	1.018	4.5	3.6	...	5.59	.554	...	...	No preservatives added.
5561	Extra Pale	Schlitz Brew Co	Milwaukee	1.015	5.7	4.56	3.75	5.26	.216	...	...	No preservatives added.
5562	Culmbacher	Falk, Yung & Borchert	Milwaukee	1.030	4.2	3.36	5.5	6.05	.227	...	...	No preservatives added.
5563	Pilsener	Falk, Yung & Borchert	Milwaukee	1.018	4.5	3.6	6.00	6.44	.203	...	...	No preservatives added.
5564	Lager	A. Gettelman	Milwaukee	1.018	5.3	4.24	6.241	6.59	.252	...	...	No preservatives added.
5565	Extra Brew	J. Oberman	Milwaukee	1.016	5.4	4.32	6.00	7.16	.203	...	...	No preservatives added.
5566	Lager	Scheibe & Schneider	Marshfield	1.013	5.1	4.08	5.00	5.17	.230	...	...	No preservatives added.
5567	Standard	Pabst Brew. Co	Milwaukee	1.012	5.7	4.56	4.75	5.23	.284	...	...	No preservatives added.
5569	Budwaiser	Anhauser Busch Co	St. Louis, Mo.	1.0135	5.24	4.19	...	5.53	.215	...	...	No preservatives added.
5570	Beer	Hoppe & Mueller	Platteville, Wis.	1.0076	4.78	3.82	...	3.80	.19	...	...	No preservatives added.
5571	Extra Pale Ale	Bass & Co	England	1.0091	6.55	5.25	...	5.02	.36	...	...	No preservatives added.
5572	Imp. Pilsener	Bot. of Aug. Krypt.	Madison	1.0077	5.21	4.19	...	4.31	.225	...	...	No preservatives added.
5573	Ale	N. Klinger	Whitewater	1.007	6.78	5.41	...	4.22	.21	...	...	No preservatives added.
5574	Beer	N. Klinger	Whitewater	1.0181	4.56	3.65	...	6.46	.23	...	...	No preservatives added.
5575	Pilsener	Jos. Schlitz	Milwaukee	1.0126	5.00	4.00	...	4.99	.195	...	...	No preservatives added.
5576	Bavarian Exp.	E. Tos-etti	Chicago, Ill.	1.0216	4.34	3.47	...	7.299	.18	...	...	No preservatives added.
5577	Beer	J. H. Kurtle & Co	Columbus, Wis.	1.0187	4.78	3.82	...	4.3	.21	...	...	No preservatives added.
5578	Best Tonic	Pabst Brew. Co	Milwaukee	1.0228	6.32	5.06	...	7.98	.30	2.97	2.73	No preservatives added.
5579	Select	Pabst Brew. Co	Milwaukee	1.0136	5.00	4.00	...	5.413	...	...	2.25	No preservatives added.
5580	Bavarian	Pabst Brew. Co	Milwaukee	1.018	5.47	4.37	...	6.935	...	2.08	2.79	No preservatives added.
5581	Bohemian	Pabst Brew. Co	Milwaukee	1.015	3.48	4.35	...	...	...	2.28	1.74	No preservatives added.
5582	Export	Pabst Brew. Co	Milwaukee	1.013	4.2	3.36	...	...	...	...	...	No preservatives added.

## CHEESE.

Lab. No.	Dealer.	Address.	Butter fat.
977	A. V. C. Elston	Muscoda	34.98
1093	C. C. Green	Beloit	
3025	H. A. Anderson	Clinton	34.20
3113	Nelson & Christianson	Deerfield	35.20
3114	Dahle Bros.	Mt. Horeb	25.90
5583	Mt. Vernon Factory	Mt. Vernon	20.10
84	Mt. Vernon Factory	Mt. Vernon	18.15
85	Mt. Vernon Factory	Mt. Vernon	20.31
86	Mt. Vernon Factory	Mt. Vernon	15.87
87	Mt. Vernon Factory	Mt. Vernon	24.92
88	Mt. Vernon Factory	Mt. Vernon	24.86
89	Mt. Vernon Factory	Mt. Vernon	24.16
5590	Mt. Vernon Factory	Mt. Vernon	27.61
91	Mt. Vernon Factory	Mt. Vernon	30.52
92	Mt. Vernon Factory	Mt. Vernon	27.04
93	Mt. Vernon Factory	Mt. Vernon	25.05
94	Mt. Vernon Factory	Mt. Vernon	22.48
95	Mt. Vernon Factory	Mt. Vernon	21.22
96	Smith Factory	Whitewater	24.86
97	H. Marr & Co.	Whitewater	15.04
98	McCrutchen & Co	Clover Valley	19.85
99	H. Marr & Co.	Whitewater	14.83
5600	Mt. Vernon Factory	Mt. Vernon	25.21
1	Mt. Vernon Factory	Mt. Vernon	23.57
2	Oak Creek Factory	Milton Junction	29.37
3	Otter Creek Factory	Whitewater	35.87
4	Otter Creek Factory	Whitewater	32.85
5	Otter Creek Factory	Whitewater	27.81
6	Otter Creek Factory	Whitewater	26.68
7	Otter Creek Factory	Whitewater	31.37
8	Otter Creek Factory	Whitewater	24.61
9	Otter Creek Factory	Whitewater	32.09
5610	Otter Creek Factory	Whitewater	31.58
11	Otter Creek Factory	Whitewater	31.07
12	Otter Creek Factory	Whitewater	29.75
13	Otter Creek Factory	Whitewater	32.18
14	Otter Creek Factory	Whitewater	29.41
15	Otter Creek Factory	Whitewater	28.92
16	Otter Creek Factory	Whitewater	29.12
17	Otter Creek Factory	Whitewater	27.43
18	Otter Creek Factory	Whitewater	40.01
19	Otter Creek Factory	Whitewater	26.16
5620	Otter Creek Factory	Whitewater	29.88
21	E. J. Piggatt	Whitewater	24.32
22	E. J. Piggatt	Whitewater	13.40
23	H. Marr & Co.	Whitewater	25.13
24	A. C. Dow & Co	Elkhorn	26.02

## MILK.

The large number of samples of milk that have been tested in the state laboratory furnish the material for a table appended to this report, a careful reading of which will repay attention.

The common properties of milk are so well known as to require but little attention in this report.

It is now generally recognized that a creamery or cheese factory cannot be successfully run without there is adopted some test by which the butter fat of the milk can be readily and accurately determined.

The general analysis of milk is a much more complex problem, requiring the services of an experienced chemist and the use of costly and delicate apparatus but by the Babcock method, the butter fat can be rapidly and accurately determined and, indeed few factories in this state have the temerity to run without one.

So general has the use of this machine become that it is perhaps well to include in this report, the directions for manipulating one.

The method here given is essentially the one followed in the laboratory of the Dairy and Food Commission and presents no difficulties if the instructions are carefully read and properly followed.

There is a variety of centrifugal machines upon the market, many of them more convenient than the one described in the cut, which is somewhat too large and cumbersome.

DESCRIPTION OF APPARATUS AND CHEMICALS  
REQUIRED.

1. Test Bottles. (Fig. 1.) These are of the form shown in the cut. They should contain up to the neck not less than 40 c. c., and no more than 45 c. c. Each division of the graduat-

ed scale upon the neck represents .04 c. c., and in order to facilitate the reading, the neck is made of such a diameter that the marks of the scale are about 1 1-2 millimeters apart. Five of these divisions are equivalent to one per cent. of fat when 18 gms. of milk are used in the test, it being assumed that the specific gravity of the butter fat, at the temperature at which the reading is made (about 120 degrees F.), is 0.9.

2. Pipette for Measuring Milk. This may be of any form, but that shown in fig. 2, with a rather wide opening at the lower end to allow the milk to run out rapidly is to be preferred. It should contain when filled to the mark, 17.6 c. c. A pipette of this size will deliver a little less than 17.5 c. c. of milk. The quantity of milk required for the test sample of 18 gms. is 17.44 c. c., if the milk has the average specific gravity of 1.032.

3. A Measure for the Acid. A graduate or cylinder of glass (Fig. 3), with a lip to pour from and a single mark at 17.5 c. c., is the best form for general use. In laboratories a large burette, holding 100 c. c. or 200 c. c. and having a glass stop-cock, may be used to advantage, but on account of the liability of breakage is not to be recommended in factories or private dairies.

4. A Centrifugal Machine. Figs. 4 and 5 show the construction of the machine used by us. The gear in this apparatus is so proportioned that the wheel which carries the test bottles makes about ten revolutions to one of the crank, with this it is easy to impart from 700 to 800 revolutions per minute to the horizontal wheel. Any arrangement that will do this, either by belt or gear, will answer the purpose. Within the horizontal wheel (a, Fig. 5) are placed sectors (b) made from heavy sheet copper to which are soldered cups or tubes (c), inclined so as to make an angle of about thirty degrees with the horizontal, for the support of the test bottles. The horizontal wheel is surrounded by a copper jacket (d, Fig. 5) with a cover. This serves the double purpose of supplying heat for the test by pouring hot water into it, or by heating water directly with a lamp placed beneath, and of arresting the hot acid which would fly off if a bottle should break.

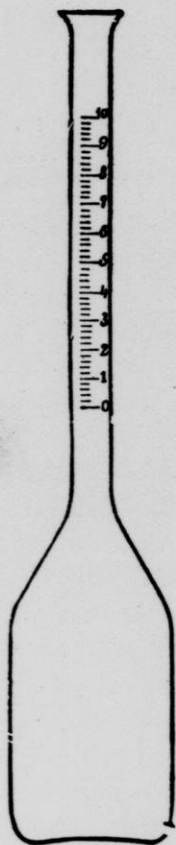


Fig. 1.



Fig. 2.

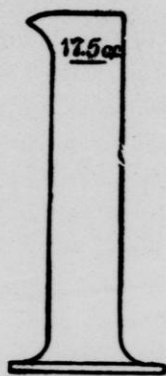


Fig. 3.

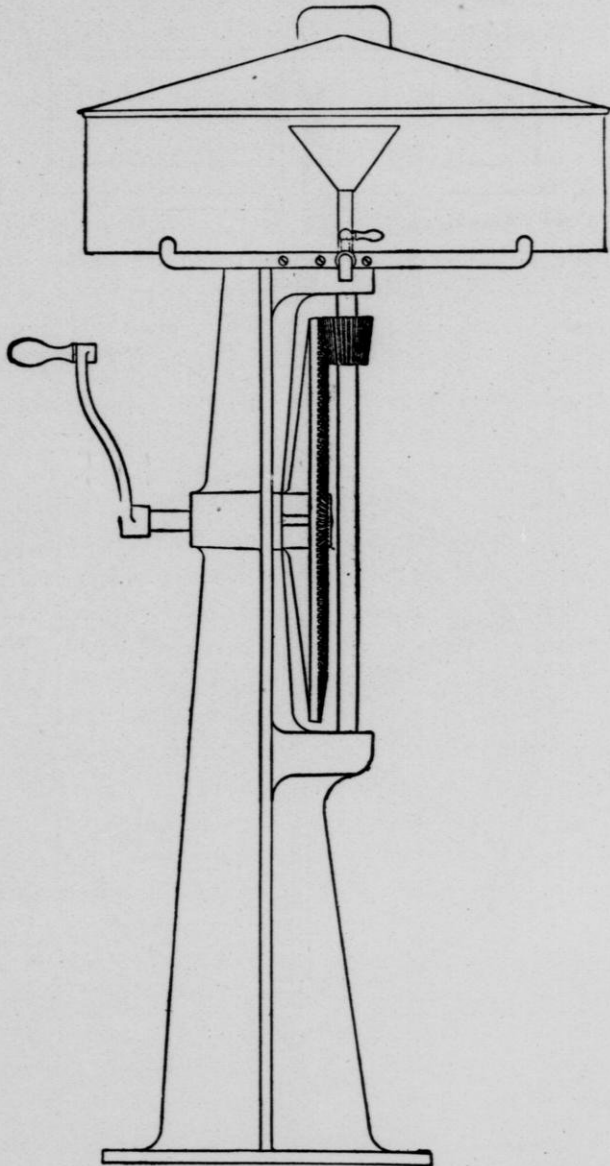


Fig. 4.



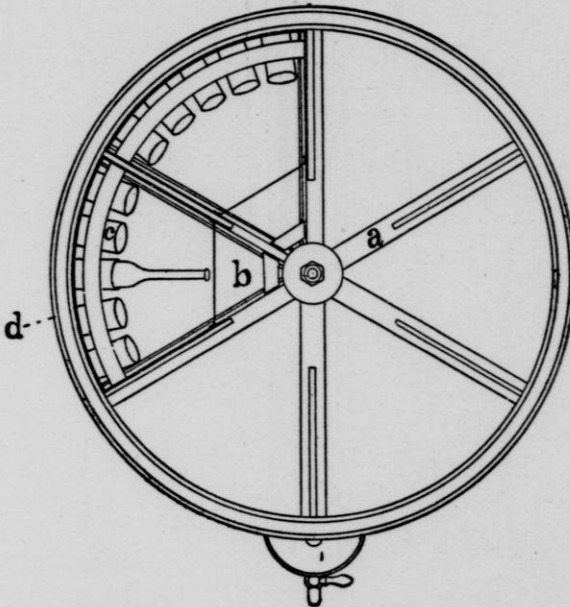
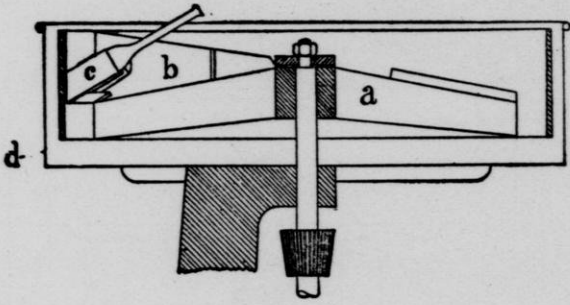


Fig. 5.

5. A kerosene or gas lamp for heating two or three quarts of water to boiling.

6. Commercial Sulphuric Acid, having a specific gravity of 1.82 or about 90 per cent. pure. If only the pure acid is available, it should be diluted with water to the strength indicated.

#### MAKING THE TEST.

Sampling the Milk. Every precaution should be taken to have the sample represent as nearly as possible the whole lot of milk from which it is taken. Milk fresh from the cow, while still warm, and before the cream has separated in a layer, may be thoroughly mixed by pouring three or four times from one vessel to another. Samples taken at once from milk mixed in this way are the most satisfactory of any. Milk that has stood until a layer of cream has formed should be poured more times, until the cream is thoroughly broken up and the whole appears homogeneous. No clots of cream should appear upon the surface when the milk is left quiet for a moment. With proper care any milk that has not coagulated or that has not been exposed to the air until the surface of the cream has become dried, may be mixed so that a representative sample may be taken. Milk should not be poured more times than is necessary, as continual mixing in this way is liable to churn the cream, forming little granules of butter that quickly rise to the surface. When this occurs it is impossible to obtain a fair sample. Milk is sometimes churned by being transported long distances in vessels that are not full. When this occurs it is useless to make an examination.

It is impracticable to sample a large amount of sour milk, but a small sample of a pint to a quart may be thoroughly mixed by adding five per cent. of strong ammonia water which will dissolve the curd and permit a uniform mixture being made. When ammonia is added the final results should be increased by five per cent. Samples from sour milk are, however, never as satisfactory as those taken when the milk is in a proper condition.

**Measuring the Milk.** When the milk has been sufficiently mixed, the milk pipette is filled by placing its lower end in the milk and sucking at the upper end until the milk rises above the mark on the stem; then remove the pipette from the mouth and quickly close the tube at the upper end by firmly pressing the end of the index finger upon it to prevent access of air; so long as this is done the milk cannot flow from the pipette. Holding the pipette in a perpendicular position, with the mark on a level with the eye, carefully relieve the pressure on the finger so as to admit air slowly to the space above the milk. When the upper surface of the milk coincides with the mark upon the stem, the pressure should be renewed to stop the flow of milk. Next, place the point of the pipette in the mouth of one of the test bottles, held in a slightly inclined position so that the milk will flow down the side of the tube leaving a space for the air to escape without clogging the neck, and remove the finger, allowing the milk to flow into the bottle. After waiting a short time for the pipette to drain, blow into the upper end to expel the milk held by capillary attraction in the point. If the pipette is not dry when used, it should be filled with the milk to be tested, and this thrown away before taking the test sample. If several samples of the same milk are taken for comparison, the milk should be poured once from one vessel to another after each sample is measured. Neglect of this precaution may make a perceptible difference in the results, through the separation of cream, especially when the milk examined is rich.

Persons who have had no experience in the use of a pipette will do well to practice a short time by measuring water into a test bottle before attempting to make an analysis. The manipulation is easily acquired, and with a little practice, milk may be measured nearly as rapidly with a pipette as with a graduate, and with much greater accuracy.

**Adding the Acid.** When the milk has been measured into the test bottles the necessary amount of sulphuric acid may be added immediately, or the bottles may be left for a day or two without materially changing the results; samples that have remained in the test bottles more than a week have given the

same amount of fat as samples tested immediately after being measured. If the milk has become coagulated, the curd should be broken up by shaking the test bottle before the acid is added. The volume of commercial sulphuric acid required for a test is approximately the same as that of the milk, 17.5 c. c. for the ordinary test. If too little acid is added, the caseine is not all held in solution throughout the test, and an imperfect separation of the fat results. If too much acid is used, the fat itself is attacked. The acid need not be measured with great accuracy, any quantity between 17 c. c. and 18 c. c. will answer the purpose.

Great care must be taken in handling the acid to avoid getting any of it upon the skin or clothing, as it is very corrosive. If by accident, any is spilled upon the hands or clothes, it should be washed off immediately, using plenty of water. A prompt application of ammonia water to clothing upon which acid is spilled may prevent the destruction of the fabric, and restore the color.

When all of the samples of milk to be tested are measured ready for the test, the acid measure is filled to the 17.5 c. c. mark with sulphuric acid, and from this it is carefully poured into a test bottle, containing milk, that is held in a slightly inclined position for reasons given in directions for measuring milk. The acid being much heavier than milk sinks directly to the bottom of the test bottle without mixing with the milk that floats upon it. The acid and milk should be thoroughly mixed together by gently shaking with a rotary motion. At first there is a precipitation of curd from the milk, but this rapidly dissolves. There is a large amount of heat evolved by the chemical action, and the solution, at first nearly colorless, soon changes to a very dark brown, owing to the charring of the milk sugar and perhaps some other constituents of the milk.

Upon standing a short time the fat begins to collect upon the surface, not in a clear layer, but having at first, the appearance of a dirty cream. The separation of fat by gravity alone is not complete even when the bottles are left standing for several hours; with the centrifuge, however, a perfect separation is accomplished in a few minutes.

Whirling the Bottles. The test bottles containing the mixture of milk and acid may be placed in the machine directly after the acid is added, or they may stand several hours without harm. An even number of bottles should be whirled at the same time and they should be placed in the wheel in pairs opposite to each other, so that the equilibrium of the apparatus will not be disturbed. When all of the test bottles are placed in the apparatus, the cover is placed upon the copper jacket, and the machine is turned either by hand or by power at such a rate that the wheel carrying the bottles will make from 600 to 800 revolutions per minute, and this motion must be kept up for six or seven minutes. If this wheel is less than about twenty inches in diameter, the speed should be greater, or else the whirling should be continued for a longer time.

When the bottles are placed in the machine directly after the acid is added the separation may be affected without any extra heat, as that caused by the chemical action is sufficient to keep the fat liquid. If the bottles have stood after the acid is added until the contents are cooled below 100 degrees F., the water in the tank should be warmed to about 200 degrees F. before putting the bottles in the machine. The bottles should not be kept heated in the machine as high as the boiling point of water while the separation is being effected. The proper degree of heat may be obtained by lighting the burner or kerosine stove under the jacket when the machine is started; so much water having been poured into the jacket as will be just heated to boiling when the whirling is finished. In this way, hot water is always available for filling the tubes at the proper time. In creameries, heat can be most easily supplied by steam connection with the boiler. If the machine is stopped after about six minutes, a layer of fat will be found upon the upper surface of the liquid in the tubes. This fat will not usually be clear; this, however, will make no difference in the result, as the subsequent treatment will clarify it.

As soon as the bottles have been sufficiently whirled, they should be filled to the neck with hot water. This is most conveniently done by placing a vessel containing boiling water above the machine and by means of a syphon, made from a

small rubber tube with a glass tip, run the water directly into the bottles without removing them from the wheel. The flow of water can be perfectly controlled by a pinch-cock upon the rubber tube. If only a few tests are to be made, the bottles may be easily filled with a pipette, or by pouring from a graduate.

The cover should then be replaced and the machine turned for one or two minutes after which more hot water is added, filling the tube to about the seven per cent. mark. The fat will slowly rise into the graduated tube, losing its cloudy appearance as it passes through the hot water. When all of the bottles are filled the cover is put upon the tank and the machine again turned for a short time. During this time the water in the tank should be kept hot either by placing a lamp or kerosene stove beneath it, or by pouring in a quantity of boiling hot water before starting the machine. If the fat in some of the tubes still has a cloudy appearance, the cover should be placed upon the tank and heat applied for a few minutes, when the fat should become clear and in condition to be measured. The clearing may be hastened by whirling the tubes while hot. When the bottles are allowed to cool off to a point where the fat will crystallize and then warmed again, the fat will usually be much clearer than before but as this, does not materially change the volume of fat it is considered unnecessary. Even a slight cloudy appearance does no harm.

**Measuring the Fat.** The fat when measured, should be warm enough to flow readily, so that the line between the acid liquid and the column of fat will quickly assume a horizontal position when the bottle is removed from the machine. Any temperature between 110 degrees F. and 150 degrees F. will answer, but the higher temperature is to be preferred. The slight difference in the volume of fat due to this difference in temperature is not sufficient to materially affect results. A difference in temperature of 40 degrees F. will make less than one-tenth per cent. difference in milk containing five per cent. of fat. To measure the fat, take a bottle from its socket, and holding it in a perpendicular position with the scale, on a level with the eye, observe the divisions which mark the

highest and lowest limits of the fat. The difference between these gives the per cent. of fat directly. The reading can easily be taken to half divisions or to one-tenth per cent.

If the column of fat is less than about one division, as will sometimes happen with skimmilk, buttermilk or whey it may assume a globular form instead of a uniform layer across the tube; when this occurs, the fat can usually be estimated with sufficient accuracy by simple inspection, but if an accurate reading is desired, it may be obtained by taking four samples of the milk in four test bottles, and after treating them in the usual way, until the bottles are ready to be filled with water, adding water to three of them only, filling them as full as possible without running them over. After whirling them for a minute to bring the fat all into the neck, the fat may be poured off from these three tubes into the fourth. If any fat remains adhering to the sides of these tubes, they should be filled a second time with water and the remaining fat poured into the fourth bottle, which is then filled with water, whirled and the reading taken; this divided by four will give the per cent. of fat.

A better way would undoubtedly be to have a special test bottle, holding three or four times as much as the ordinary bottle, that could be used for skimmilk, buttermilk and whey. Three or four times the usual test sample could then be taken and by adding the proper quantity of acid, the test could be made without transferring the fat.

Cream. The chief difficulty in testing cream lies in the sampling. Cream that is sour, or that has been exposed to air until the surface has dried, cannot be accurately sampled. The same is true of centrifugal cream that is badly frothed. Sweet cream, from Cooley cans, that is not too thick to flow readily from the pipette may be tested with satisfactory results. The process, however, must be modified slightly from that used with milk, as the amount of fat in cream is so large that it cannot be measured in the ordinary test bottle, if the usual quantity is taken for the test, besides a much greater error results from the cream which adheres to the pipette than with the milk. Both of these difficulties may be overcome by

taking two or three test bottles and dividing the test samples into as nearly equal portions as can be judged by the eye. The pipette is then filled with water and this is run into the tubes in the same way as the cream. If three bottles are taken the pipette is filled with water the second time and emptied into the bottles as before. This serves to rinse the cream from the pipette, and at the same time to dilute it to a point where it can be tested in the same way as milk. The bottles are then treated in the usual manner, and the reading of the tubes added together for the per cent. of fat in the cream.

Owing to the low specific gravity of cream, the test sample, if of the same volume, will weigh less than that of milk, and consequently the per cent. of fat as shown by the scale will be less than is found by gravimetric analysis, in proportion as the weight is less than 18 gms. Where a delicate balance is available, this error may be entirely avoided by weighing the cream used in a test, and calculating the per cent. of fat by multiplying the scale reading by  $\frac{18}{a}$ ,  $a$  being the weight of the cream taken.

If 17.6 c. c. of cream is taken and the portion adhering to the pipette is rinsed into the test bottle, a close approximation of the true result may be obtained without weighing by correcting the scale reading as follows: For a scale reading of 20 per cent., add .25 per cent. ;for a scale reading of 15 per cent., add 0.1 per cent. Readings between these may be corrected in proportion. Below 10 per cent. no correction is necessary.

#### ACCURACY OF TEST.

During the last month a considerable number of comparative analyses have been made by the gravimetric method and by the new test. These are given in the following table, and show the substantial accuracy of the method. The figures are not selected, but represent all of the samples of milk analyzed by both methods between May 27 and July 15. The gravimetric analyses were made by drying the milk upon asbestos and extracting with ether. In analyses by the new test, no



readings were made to less than one-half a division of the scale, or to 0.1 per cent. The figures in the second decimal place are derived from corrections for the quantity of milk used in the test, 15 c. c. and 20 c. c. of milk having been taken in many of the preliminary trials. These comparative analyses were mostly made with milks from single cows, as such present greater difficulties than mixed milk.

COMPARATIVE RESULTS BY THE NEW AND GRAVIMETRIC METHODS.

*Per. cent. of Fat.*

Kind of milk.	By new test.	By gravi- metric an- alysis.
Single cow — Bunn, grade Holstein.....	3.64	3.72
Skim milk.....	.20	.21
Single cow — Bessie's heifer, $\frac{1}{8}$ Jersey.....	6.44	6.55
Single cow — Mattie, grade Holstein.....	3.63	3.60
Single cow — Topsy, grade Holstein.....	3.35	3.33
Cream.....	22.98	22.69
Single cow Bunn, grade Holstein.....	3.29	2.99
Single cow — Rose, grade Jersey.....	3.93	4.00
Single cow — Sylvia's heifer, high grade Jersey.....	4.57	4.73
Single cow — Doubtful, high grade Jersey.....	4.98	4.91
Cream.....	21.25	21.47
Single cow.....	3.75	3.87
Mixed milk.....	4.69	4.77
Single cow — Flossie, registered Jersey.....	5.31	5.38
Single cow — Bessie, high grade Jersey.....	5.08	5.14
Single cow — Nettie, high grade Jersey.....	5.32	5.40
Single cow — Daisy, grade Jersey.....	4.69	4.56
Single cow — Rose, grade Jersey.....	5.39	5.37
Mixed.....	5.98	5.94
Single cow — Jersey.....	6.91	6.87
Whey.....	.68	.61
Cream.....	17.96	18.08
Skim milk.....	.89	.81
Single cow — Bessie's heifer, $\frac{1}{8}$ Jersey.....	6.95	6.81
Single cow — Sylvia, grade Jersey.....	6.44	6.43
Single cow — Dolly, grade Jersey.....	5.75	5.64
Single cow — Bryant, grade Jersey.....	4.22	4.24
Single cow — Daisy, grade Jersey.....	4.69	4.70
Single cow — Bunn, grade Holstein.....	2.87	2.93
Single cow — Grade Jersey.....	4.10	4.03
Single cow — Daisy's heifer, grade Jersey.....	4.22	4.02
Single cow — Galena, high grade Jersey.....	4.45	4.31
Single cow — Topsy, grade Holstein.....	3.40	3.23
Single cow — Mattie, grade Holstein.....	3.28	3.41
Single cow — Annie Johnson, registered Jersey..	5.04	5.10
Single cow — Annie Johnson, registered Jersey..	5.16	5.22
Buttermilk, sweet cream.....	3.00	3.09
Cream.....	16.10	16.13
Buttermilk, sour cream.....	.40	.58
Buttermilk.....	1.40	1.63

### TIME REQUIRED FOR MAKING THE TEST.

On account of the large number of tests which may be carried along together and the little attention which each demands, the average time required for a test is very small. Two samples of milk may be tested in duplicate in fifteen minutes, including all of the work from the mixing of samples to the cleaning of the bottles. After the milk has been measured, sixty tests may be made in less than two hours, including the cleaning of the bottles.

### EXPENSE OF THE TEST.

The cost of the test will depend upon the price of commercial sulphuric acid. The wholesale price of this acid is about two cents per pound. At retail it can be bought at from three to five cents, according to the quantity obtained. One pound of acid is sufficient for fourteen tests. In a factory where acid is purchased by the carboy, it should not cost more than one-fifth cent per test, and in no case should it cost more than one-half cent per test.

The breakage of bottles, if properly made, is so slight that it need not be considered. We have made upward of 2,000 tests, in which only fifty bottles have been used, and only one of these bottles has been broken. The chemicals do not act upon the glass and the bottles are only broken by accident or careless handling.

### CLEANING THE TEST BOTTLES.

The bottles should be emptied while hot and afterward rinsed twice with hot water; they are then ready for another test. In emptying the bottles they should be inverted and given circular motion, which causes the liquid to form a whirlpool and allows air to enter continuously in the center of the tube; in this way the bottles may be emptied and cleansed rapidly without leaving fat attached to their sides.

## FURTHER PRECAUTION.

The sulphuric acid used should be kept out of reach of all persons except those making the test, and great care should always be taken in handling it, as it is very corrosive.

If the fat does not separate clear from the acid liquid when the water is added to bring it into the neck, it indicates that the acid used is too weak and more should be used. If the fat separates clear from the acid, but is blackened, it shows that the acid is too strong, and it should be diluted to a specific gravity of 1.82 before using, or a little less of the acid could be used for the test.

It sometimes happens, in testing buttermilk that is quite sour, that the addition of water to bring the fat into the neck of the bottle where it can be measured, causes a precipitate of caseine or other matter which mingles with the fat and prevents an accurate reading. This difficulty has also occurred few times with milk that had stood a considerable time before testing; it may be entirely avoided by filling the bottles with a hot mixture of equal parts of sulphuric acid and water instead of water alone.

The greatest source of error is in the graduation of the tubes, and no one should purchase tubes except from reliable parties who will guarantee their accuracy.

The above is an accurate method of determining the amount of fat in milk, and promises to be of great use to the dairyman. It is used in the laboratory to select those milks which, containing a low per cent. of fat are to be subject to further analysis.

**Analysis of Milk.** The adulteration of milk is determined by a more or less complete analysis of the sample. Except in special cases the analysis is confined to a determination of the three constituents. viz.: Total solids, fat, and solids not fat. To understand the significance of a milk analysis a knowledge of the methods employed is necessary. There are many methods in use differing slightly in material used or manner of manipulation. Each analyst selects the one most adapted to the condi-

tions under which he works and the apparatus at his disposal. The method employed in the State laboratory is as follows: A nickel-plated perforated copper tube is filled with washed and ignited asbestos, and carefully dried at 100 degrees C. The tube and contents are weighed and about 2 c. c. of the well-mixed milk are dropped on the asbestos, and the tube again weighed. The difference in the two weights gives the weight of the milk taken. The tube is then placed in a drying oven, heated by gas and containing a thermometer by which the oven is kept at a temperature of 100 degrees C. (212 degrees F.) Here the tube and its contents are kept till all the water is expelled; this generally takes three hours. It is then removed allowed to cool in a desiccator and weighed. The final weight is the weight of the tube plus the total solids of the milk. The loss in weight from the combined weight of the tube and milk is the weight of the water in the milk taken. The fat is now determined by placing the dried tube in a fat extractor and subjecting it to the action of dry ether. The ether dissolves the fat from the milk solids but has no effect on the solids not fat. The solution of fat in ether is received in a weighed glass flask, the ether is distilled off, leaving the fat behind. The flask and fat are now placed in the drying oven, allowed to remain till the last traces of ether have been driven off, removed, cooled and weighed. The increase of weight in the flask represents the amount of fat present in the milk. From these figures a simple calculation will give us the percentage composition of the milk. The figures obtained from an analysis like the above will enable the chemist to judge of the quality of the sample on hand, so far as the removal of cream or the addition of water is concerned. Adulteration by skimming is shown by the low per cent. of fat. This may be as low as one per cent. In determining if a sample of milk has been watered, advantage is taken of the fact that the solids not fat of herd milk rarely fall below nine per cent. Taking, then, nine per cent. as the standard for solids not fat, the amount of water added may be calculated. The following analysis of a sample of milk delivered at a cheese factory shows the effect of watering. Total solids, 8.58; fat, 2.33; solids not fat, 6.25.

The amount of water added is determined by the following proportion:  $8 : 100 :: 6.25 : x$ ;  $x = 69.45$ . The milk, therefore, contained, if the standard was fixed at 9 per cent. solids not fat, 69.45 parts of standard milk, and 30.55 parts of added water.

It is estimated that about 90 per cent. of the adulteration of milk is in skimming and watering. The adulteration of the other 10 per cent. consists in the addition of material to preserve the milk, to increase the specific gravity, or to improve the appearance of the milk. The following substances have been used as adulterants: cane sugar, glucose, flour, starch, dextrine, solution of starchy substances, gum arabic, gum tragacanth, yolk of egg, white of egg, caramel, brown sugar, gelatine, isinglass, licorice juice, brown extract of chicory, extract of marigold, carrots, annatto. The following cases are also on record: the addition of glycerine, emulsions of oleaginous seeds, also the addition of old milk, buttermilk and condensed milk to conceal watering. Preservatives are also added: bicarbonates of soda, boracic acid and borates, salicylic acid, common salt and glycerine have been found.

The great majority of cases consists in the removal of cream or the addition of water. The addition of water is not only a direct fraud on the consumer, but recent investigations would indicate that this addition of water may bring about the spread of contagious diseases. Chas. Girard (Rapport sur les Travaux du Laboratoire Municipale 1885) makes the following statement: "It is well known that water is a vehicle for contagious diseases; wells, cisterns, receptacles of every description that serve for the storage of water, may become charged with organic matters injurious to health. Thus it is that milk which by itself is very liable to fermentation, becomes dangerous when mixed with contaminated water. A great number of ferment germs may be introduced into the milk and there developed with great rapidity. Milk dealers in Paris have been known to add to their cans water taken from the gutter. Such water, infected with germs and putrid matter, constitutes a veritable poison. Diarrhœal diseases, vomiting and colics are the invariable sequences of the ingestion of milk adulterated with such matter.

The frequent tracing of the source of typhoid and scarlet fever to a contaminated milk supply, shows that this fear is not by any means an idle one. The presence of nitrates and nitrites is direct proof of the use of contaminated water. These salts are not found in normal milk even if the salts have been fed to the cows.

Cane sugar is added to conceal watering; its use, however, must be limited, as any large amount will give a decided sweet taste. Glucose, flour and other starch containing substances, dextrine and gums are added for the same purpose as cane sugar, to give a body to watered milk. Gum tragacanth has been used, not for increasing the specific gravity, but to cause the milk to froth. Coloring matter as annatto and carrots are very libale to be found in watered milk. Skimmed milk having too blue a tint, the coloring matter is added to bring back the yellow tint which, to the public eye, is a guarantee of purity. A simple method for testing for annatto is as follows: one hundred c. c of the suspected milk are rendered alkaline by the addition of 5 c. c. of a solution of carbonate of soda, and are poured into a jar five inches high. A strip of filter or blotting paper five inches long by one-half wide is then placed in the jar and allowed to stand in the dark for twelve hours. This strip is removed, carefully washed when if annatto is present, it will be of pale a salmon color, and if dipped into a solution of stannous chloride will show a pink color. The addition of coloring matter to milk is usually in the form of an alkaline solution. Sometimes, however, a mixture devise especially for the puprose is used. A mixture of this kind largely used in San Francisco, had the following composition: common salt, saltpetre, traces of caustic soda, and a large quantity of sugar. The color is due to caramel. The above compound is dissolved in water and the solution used for adulterating milk.

I have the honor to be,  
Respectfully yours,

GEORGE S. COX,  
State Chemist.

# CREAMERIES IN THE STATE,

## BY COUNTIES.

**ADAMS CO.**  
O. C. Ely.....Spring Creek

**BARRON CO.**  
Cumberland Creamery Co.....Cumberland

**BROWN CO.**  
E. Ammond.....Wequiock  
Jacob Law & Son.....Preble  
Ed Schilling.....Wequiock  
James McAllister.....Mill Center

**BUFFALO CO.**  
Lincoln Cooperative Creamery Co.....Cream  
Alma Creamery Co.....Alma  
Anton Fiak.....Alma  
C. Meyers.....Cochrane

**CALUMET CO.**  
Grashon & Alberts.....New Holstein  
Phillips Bros.....Brothertown  
John Gratemont.....Forest Junction  
Anton Keuhun.....Jericho

**CHIPPEWA CO.**  
S. J. Kelley.....Bloomer

**CLARK CO.**  
Geo Austin.....Neillsville  
A. J. Falton.....Neillsville  
City Creamery Co.....Dorchester  
F. O. Dest-Horsh.....Dorchester  
Andrew Emershon.....Loyal  
Greenwood Creamery.....Greenwood

**COLUMBIA CO.**  
Pardeeville Creamery Assn.....Pardeeville  
Geo. E. Rockwood.....Lewiston  
Kilbourn City Creamery.....Kilbourn City  
Foster & Sawin.....Fall River  
C. A. Johnson.....Keyser  
Lodi Creamery.....Lodi

**CRAWFORD CO.**  
King & Haggerty.....Mt. Sterling

**DANE CO.**  
Earl McMuran.....Sun Prairie  
Pierceville Creamery Assn.....Sun Prairie  
C. J. Dodge.....Windsor  
Deforest Creamery.....Deforest  
Roach & Seiber.....London  
Roach & Seiber.....Deerfield

Belleville Creamery.....Belleville  
A. Baker.....Waunakee  
C. E. Merrick & Co.....Mt. Vernon  
C. E. Merrick & Co.....Riley  
Iver Klevin.....Klevinville  
McCredie Bros.....Cambridge  
Tellefson & Co.....Rockdale  
Emil Z. Herring.....Cross Plains  
Henry Prien.....Cross Plains  
Dane Creamery.....Dane  
Cooperative Dairy Assn.....Black Earth  
Stoughton Creamery.....Stoughton  
Dodge & Marshall.....Lake Mills  
John Starkes.....East Bristol  
Chas. Arions.....North Bristol  
G. T. Tripp, Manager.....Oregon  
Dahle Bros.....Mt. Horeb  
D. E. Wood & Co.....Oregon  
Iverson & Heimdahl.....Burke  
Fitchburg Creamery.....Fitchburg  
Karrow Bros.....Deforest  
Berrenkatt & Kelschner.....Cross Plains

**DODGE CO.**  
H. Flemming.....Iron Ridge  
H. M. Green.....Reeseville  
Robt. Witthe.....Beaver Dam  
Chas. Grashan.....Mayville  
Solon Bros.....Richwood  
Alderly Dairy Co.....Alderly  
Cross Keys Dairy Assn.....Alderly  
Robt. Witthe.....Waupun  
William Watches.....Waupun  
Leaders Ch. & B Fact.....Reeseville  
Lowell Creamery.....Lowell  
Dodge Co. Creamery Assn.....Juneau  
Clear Water Springs Dairy Assn.....Lowell  
Wm. Balon.....Lomira  
Wm. Nerenz.....Lomira

**GRANT CO.**  
Hinn, Hildebrand & Co.....Fenimore  
Parks, Hildebrand & Co.....Boscobel  
Hickmaster & O'Neil.....North Andover  
Klent, Greigas & Co.....Cassville  
G. E. Groom.....Cassville  
Walter Brown.....Cassville  
Bunker Hill Creamery.....Platteville  
G. S. Whitches.....Platteville  
C. C. Dickerson.....Platteville  
J. E. Schultz & Co.....Bloomington  
Hazel Green Creamery.....Hazel Green

**GREEN CO.**  
J. L. Gassett.....Dayton  
J. R. Edis & Sons.....Brooklyn

**GREEN LAKE CO.**  
Berlin Creamery Co.....Berlin

IOWA CO.

J. Q. Williams ..... Edmuncie

JACKSON CO.

Asa Carpenter ..... Alma Center  
 Geo. Austin ..... Alma Center  
 E. W. Button ..... Melrose  
 J. R. Sechler ..... Sechlerville  
 Alma Center Creamery Assn. .... Alma Center  
 Albion Creamery Assn. .... Black River Falls

JEFFERSON CO.

Chas. Millard ..... Lake Mills  
 E. C. Dodge ..... Lake Mills  
 J. Hutchison ..... Aztalan  
 B. S. Seward ..... Harvey  
 Joseph Wallzahn ..... Watertown  
 G. C. Mansfield ..... Johnson's Creek  
 Pipersville Ch. & B. Co. .... Pipersville  
 H. C. Christian ..... Johnson Creek  
 H. J. Greel ..... Johnson Creek  
 James Campbell ..... Jefferson  
 A. Hoard (2) ..... Ft. Atkinson  
 A. Hogz ..... Heilensville  
 Wigganton & Bros. .... Concord

JUNEAU CO.

J. G. Wightman ..... Elroy  
 E. U. Loveland ..... Elroy

KENOSHA CO.

Devlin Bros ..... Bristol  
 Kendall Creamery Co. .... Russell Lake III  
 W. A. Dickson ..... Truesdalle  
 R. S. Houston ..... Ranny  
 R. S. Benson ..... Genoa Junction  
 S. D. Slade ..... Slade's Corners  
 Peterson & Benson ..... Fox River  
 Oak Grove Creamery ..... Brighton  
 Kenosha Co. Creamery Co. .... Somers  
 Paris Butter & Ch. Co. .... Union Grove

LA CROSSE CO.

A. C. Hanson ..... Mindoro  
 Acme Creamery Co. .... Barre Mills  
 J. H. Dahl ..... Bur Oak  
 Halman Creamery ..... Halman  
 W. W. Lentz Agent. .... West Salem  
 Miles Fourtelott ..... Middle Ridge  
 Larson & Jordson ..... Bangor

LA FAYETTE CO.

M. Laird ..... Dumbarton  
 D. E. Wood ..... Elgin, Ill  
 South Wayne Creamery Co. .... South Wayne  
 Eureka Creamery ..... New Diggins  
 Thomas Wallace ..... Argyle  
 Belmont Creamery Co. .... Belmont  
 J. R. Ellis & Sons ..... Shullsburg  
 R. F. Scott ..... Yellow Stone

MANITOWOC CO.

Peter Miller ..... Osman  
 Manitowoc Creamery Co. .... Manitowoc  
 Cleveland Creamery Co. .... Cleveland  
 The Kellogg Creamery Co. .... Manitowoc  
 Bahr & Wagner ..... Branch

MARQUETTE CO.

Lake Vein Creamery ..... Big Spring  
 Packwaukee Creamery Co. .... Packwaukee

MILWAUKEE CO.

Thomas Rawson ..... Oak Church  
 Jacob Gaizer ..... Oak Church

MONROE CO.

J. F. Scantleton ..... Cataract  
 Tomah Creamery ..... Tomah  
 R. S. Kingman ..... Sparta  
 J. G. Leets ..... Sparta  
 Kickapoo Valley Creamery Assn. .... Wilton

OUTAGAMIE CO.

Peter Tubbs ..... Seymour  
 S. J. Armadage ..... Seymour  
 S. Sherwood ..... Seymour  
 F. C. Huette ..... Seymour  
 C. A. Baake ..... Hortonville  
 Outagamie Creamery Co. .... Hortonville

OZAUKEE CO.

N. E. Becker ..... Randon Lake  
 Charles Gerbach ..... Gratton  
 Aug. Hadler ..... Grafton  
 Dick Mey ..... Belgium

PEPIN CO.

S. L. Plumer & Son ..... Waterville  
 G. Tarrant & Son ..... Durand

PIERCE CO.

A. J. Sats ..... River Falls  
 O. A. Moe ..... Ellsworth

POLK CO.

A. Peterson ..... Luck  
 Deronda Creamery Co. .... Deronda  
 Adam Seeds ..... St. Croix Falls  
 W. R. Inga s. .... Clear Lake

PRICE CO.

G. W. Grindle ..... Phillips

RACINE CO.

C. B. McCanna ..... New Munster  
 C. B. McCanna ..... Dover  
 C. B. McCanna ..... Kansasville  
 Oak Grove Creamery ..... Keeseland  
 Raymond Center Creamery ..... Raymond  
 Thompsonville Creamery ..... Thompsonville

RICHLAND CO.

H. J. Noyes ..... Richland City  
 M. H. Harter ..... Richland City

ROCK CO.

Canley & Coury ..... Clinton Junction  
 Artie Weaver ..... Clinton Junction  
 Fred Vankirk ..... Janesville  
 D. E. Wood ..... Evansville  
 Godfrey & Krebs ..... Lima Center  
 H. J. Bullock ..... Lima Center  
 Marks & Jones ..... Emerald Grove  
 T. O. Uehling & Co. .... Hanover  
 M. Debereaux ..... Edgerton  
 Shopiere Creamery ..... Shopiere  
 Wm. Brenkman ..... Afton  
 W. S. Thompson ..... Beloit  
 River Side Creamery ..... Edgerton  
 Clear Lake Creamery ..... Milton Junction



## ST. CROIX CO.

Hill & Hawkins	Roberts
Roberts Creamery Co.	Roberts
D. M. White	Roberts
Wm. Hawkins	Roberts
Grant Bros	Somer-et
Wills & Mulraney	New Richmond
H. R. Morgan	Pleasant Valley
F. G. Scribner	Baldwin

## SAUK CO.

Reedsburg Creamery	Reedsburg
Merrimac & Caledonia Creamery Co.	Merrimac
Wisconsin Creamery Co.	Sauk City
Barker Bros	Baraboo
W. P. Dennett	Reedsburg
R. E. Klett	La Valle
A. M. Beckford	Prairie du Sac
Sumpter Creamery	Prairie du Sac
Wm. Schuetz	Ablemans
Wm. Peers	Ablemans
A. Janzen	Ablemans
N. W. Morley	Baraboo

## SHAWANO CO.

A. V. Heimbürg	Cecil
Shawano Creamery	Shawano

## SHEBOYGAN CO.

Joe Palmer	Cedar Grove
John Frick	Plymouth

## TREMPEALEAU CO.

Getts & Everson	Whitehall
E. Ecken	Whitehall
Artic Spring Creamery	Galesville
Arcada Creamery Co.	Arcada
River Side Creamery Co.	Trempealeau
Etrick Creamery Assn.	Etrick
J. H. Hyslop	Osseo
Peter Eken	Pigeon Falls
Elk Creek Creamery Assn.	Elk Creek
Strum Creamery Assn.	Strum
O. Adams	Mondovi
Gilbert & Hollinger	Elva
Blair Trading Assn.	Blair

## VERNON CO.

John Starr	Chaseburg
Viroqua Creamery	Viroqua
Thompson Bros	Bristow

S. H. Lahnbokken	Westby
Smith & Hull	Manning
Chaseburg Creamery Co.	Chaseburg

## WALWORTH CO.

J. A. Carlisle	Lake Geneva
Boomer & Menders	Delavan
H. N. Stubbs	East Delavan
Couley & Conry	Fairfield
Buchanan & Gibbens	Hebron, Ill
R. S. Benson	Genoa Junction
Carman Bros.	Bigfoot Prairie
V. B. Phillips	Walworth
Harris & West	Darien
W. Ferris	Lake Geneva
W. Ferris	Lake Geneva
Allens Grove Creamery	Allens Grove

## WASHINGTON CO.

L. Rosenheimer	Kewaskum
Ryan Fairbanks	West Bend
J. B. Akern	Allenton
M. N. Yehl	Neno
Dow Maxon	Cedar Creek
Denison, Jackson & Co.	Hartford
Barton Creamery	Barton

## WAUPACA CO.

John Bahr	Marion
Reuben Springstien	Weyauwega

## WINNEBAGO CO.

Floral Creamery Co.	Omro
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## WAUSHARA CO.

F. R. Jones	Hancock
Chas. Manyer	Hancock
J. J. Richardson	Poysippi
Wild Rose Butter Factory	Saxville
Poysippi Butter Factory	Poysippi
A. Bost	West Bloomfield
Trufant & Son	Mountain
Frank Metcalf	Rodney
Geo. W. Jones	Spring Lake
Lester Porter	Mt. Morris
John Ernich	Terril

## WAUKESHA CO.

Perry Schuchardt	North Lake
Flyn & Welian	Manchers
G. H. Thomas	Dousman

# CHEESE FACTORIES

## IN THE STATE

### ADAMS CO.

J. C. Jacobson.....Strongs Prairie  
 A. S. Waterman.....Olin  
 T. G. Benham.....Little Lake

### BROWN CO.

Henry Kalerig.....Wrightstown  
 Joe Krautkream.....Wrightstown  
 East Wrightstown.....East Wrightstown  
 Theo. Van Roy.....Wrightstown  
 Anton Burkhardt.....New Franklin  
 A. Lefever.....Schiller  
 Telephone Charles.....Schiller  
 J. J. Matchway.....Green Bay  
 John Baland.....Askeaton  
 Henry Hamm.....Holland  
 F. D. Clark.....Lawrence  
 Aug. Saenger.....Ledgville  
 Clark Ames, Agent.....Mill Creek  
 Hem'l Falok.....Morrison  
 H. Labroeder.....Way side  
 Frank Saenger.....Morrison  
 Aug. Natzke.....Way side  
 James Smith.....Stark  
 James Clark.....Morrison  
 John Armstrong.....Morrison  
 H. J. Gafforts.....De Pere  
 Anton Kalb.....Kalb

### BUFFALO CO.

H. W. Gibson.....Modena  
 Fred Nickle.....Waumandee  
 Trout Creek Manufacturing Co.....Alma  
 Pine Creek Cheese Factory.....Alma  
 Mill Creek Cheese Factory.....Alma  
 Wm. Trowbridge.....Mondovi  
 Obed Adams.....Mondovi  
 Louis Goodchild.....Howard  
 A. R. Pierce.....Gilmantown  
 A. Notchway.....Pine Grove  
 Jacob Jacobson.....Glenmre  
 A. M. Bates.....Mondovi  
 Belvidere Cheese Factory.....Cochrane  
 Wm. Herald & Co.....Herald

### BURNETT CO.

Antone Nelson.....Wood Lake

### CALUMET CO.

Wm. Lintner.....Brillion  
 John Wolfmeyer.....Brillion  
 Otto Kreuger.....Brillion  
 John A. Hast.....Hayton  
 Jacob Linchman.....Chilton  
 John Pipes.....Chilton  
 J. J. Halzshue.....Sherwood  
 Wm. Rice.....St. John  
 F. H. Alvis.....Chilton

J. R. McCabe.....Chilton  
 Pat McCabe.....Brant  
 Theo. Bunt.....Hilbert  
 Ryan Bros.....Chilton  
 Schaff Bros.....Chilton  
 Schmeeder Bros.....Brant  
 G. D. Breed.....Chilton City  
 Clark & Skidmore.....Stockbridge  
 Charles Gash.....Stockbridge  
 Pingle Bros.....Chilton  
 L. McHolland.....Stockbridge  
 J. P. Nevine.....Chilton  
 Otto Friend.....Granville  
 M. Nelson.....Hilbert  
 John Gralemost.....Forest Junction  
 Geo. Muench.....Forest Junction  
 Chas. Medenwath.....Brillion  
 G. J. Lizen.....Kankaana  
 Philip Reis.....Sherwood  
 L. Bangart.....Darby  
 Theo. Beuote.....Hilbert  
 Peter Larrig.....Potter  
 Theo. Schaar.....New Holstein  
 Henry Sells.....Meggers  
 Peter Meyres.....St. Anna  
 W. Burg.....St. Anna

### CHIPPEWA CO.

Schmee Itz Factory.....Edison  
 E. L. Shipman.....Eagle Point  
 Bert Hopkins.....Cadott  
 Anson Cheese Factory.....Chippewa Falls

### CLARK CO.

Huntz-cke's Factory.....Greenwood  
 Mike Prash.....Globe  
 W. Vanderhoof.....Spencer  
 A. Steinwood.....Colby  
 S. R. Davis.....Maple Worths  
 Wesley Bolton.....Wilcox  
 Joseph Frone.....Unity  
 Henry Schmeeder.....Unity

### COLUMBIA CO.

Hutchinson Spring Factory.....Randolph  
 Courtland Cheese Factory.....Randolph  
 Chevis & Russell.....Fall Rivers  
 Alonzo Kliners.....Fall Rivers  
 Aug. Lapin.....Lodi  
 Geo. Chaffee.....Lodi  
 E. A. Johson.....Keyser

### CRAWFORD CO.

Atley Peterson.....Soldier's Grove  
 B. Opright.....Seneca  
 H. Hamilton.....Seneca

## I. CO. 46

Vermont American Cheese F'y.	Black Earth
York Center Cheese Factory	Marshall
Medina Cheese Factory	Marshall
Marshall Cheese Factory	Marshall
K. A. Johnson	Morrisonville
Fred Lueder	Blue Mounds
Andrew Hoff	Mt. Horeb
R. Reger	Mt. Horeb
C. O. Barber	Barber
H. G. Rahl	Blue Mounds
North Perry Factory	Perry
Perry Factory	Perry
V. Drammen	Perry
Indian Hill	Perry
Perry Center Factory	Forward
Spring Valley Factory	Perry
Elm Grove	Perry
Land Hill Factory	Forward
C. S. Engen	Forward
Pleasant Valley Factory	Forward
Perry Southern Factory	Forward
Lee Valley Factory	Forward
Daleyville Factory	Perry
Sunnyside Factory	Perry
D. Connor & Co.	Mt. Vernon
J. Pascher & Co.	Mt. Vernon
Rock Hill Factory	Mt. Vernon
S. Engen & Co.	Primrose
W. C. B. Weltzin	Primrose
John Wallon & Co.	Primrose
A. Duest & Co.	Primrose
H. Hanholt	New Glarus
G. A. Starman	Primrose
John Petters	Montrose
Solomon Harrington	Albion
Morrisonville Factory	Morrisonville
Bramard & Haroff	Mazomanie
Bannon Cheese Co.	Deerfield
Paoli Cheese Factory Asso'n	Paoli
Leyle Cheese Factory Asso'n	Paoli
Montse Cheese Fac'y Asso'n	Montrose
Montro Cheese Fac'y Asso'n	Paoli
Mawrine & Bennett	Black Earth
H. A. Johnson	Morrisonville
Engle Cheese Factory	Paoli
Malone Cheese Factory	Mt. Vernon
Gousman Cheese Factory	Mt. Vernon
Bluff Cheese Factory	Klenonville
Knuts Cheese Factory	Klenonville

## DODGE CO.

W. A. Nan	Fox Lake
Lapenes & Walsh	Clyman
Thos. Vallneer	Clyman
J. F. Walsh	Clyman
H. Lendenus	Juneau
M. Settle	Juneau
H. Flemming	Iron Ridge
Gotlieb Gassner	Horicon
Chris. Indermuehley	Horicon
John Indermuehley	Woodland
H. Belgrien	Iron Ridge
Emil Dornfield	Hustisford
H. M. Green	Reeseville
Wm. Hadcock	Waupun
H. G. Budde	Beaver Dam
F. Baistochke	Mayville
Henry Rahl	Kekaskee
Chris. Gassner	Woodland
F. Yergler	Waterloo
Leitzke Bros.	Hustisford
Jawdy Bros.	Hustisford
Wm. Waeger	Hustisford
Chas. Waeger	Hustisford
Chas. Lang	Hustisford
John Zweichy	Hustisford
Thos. Condon	Hustisford
Ernest Brammer	Hustisford
S. B. Jones	Hustisford
Aug. Grim & Bros.	Hustisford
Martin Volneer	Neosha

John Jesse	Hustisford
F. Fritz	Neosha
Gotlieb Klassner	Watertown
Thom. Toomas	Fox Lake
Fritz Kuehn	Lebanon
Fritz Kreager	Lebanon
Fritz Fenniges	Ashippun
E. Breistemuster	Lebanon
A. Brauenchwig	Lebanon
John Keunzi	Lebanon
Aug. Nast	Lebanon
John Wild	Lebanon
Christ Colby	Leroy
Ernest Adlemeyer	Kekaskee
Le Roy	Le Roy
J. Berchy	Mayville
Wolfgram & Ferris	Danville
C. H. McKinney	Burnett
Sam Baehler	Horicon
Chevis & Scott	Columbus
James Higgins	Richmond
Fred Hilker	Richmond
E. Ueling	Richmond
Herman Nutzel	Watertown
Rock River Star Cheese Co.	Ashippun
A-hippunn Cheese Co.	Ashippun
North Star Cheese Co.	Ashippun
Lime Ledge Cheese Co.	Ashippun
Tolland Butter & Cheese Co.	Toliand
Frank Williams & Co.	Ashippun
Geo. Koch	Knowels

## DOOR CO.

Joseph Nuesse	Sturgeon Bay
L. B. Stephenson	Sturgeon Bay
Wm. Vokes	Voseville
F. A. Kruenger	Sawyer
Wm. Stoneman	Stokes
John Shurgton	Stokes
Joseph Ullsburges	Forestville
Duroe & Co.	Forestville
Rudolph Buchhalz	Forestville
John Barman	Forestville
Aug. Bussey	Forestville
Joseph Gaetz	Maple Wood
John Henguinot	Gardner
Aug. J. Barman	Little Sturgeon
Alex. Pierce	Brussels
Frank Eavards & Bros.	Brussels
Bley & Anchutz	Jacksonfort
Farmers' Cheese Factory	Sister Bay
Chas. Jess & Co.	Washington Harbor
J. W. Kinsel	Baileys Harbor
H. Schlussen	Forestville
Ernest Hoeglez & Co.	Forestville
Piere, Verly & Co.	Brussels
Eugene Naze	Rosiere
Victor Brans	Rosiere
Madock & McDermont	Cheeseville
Mat. Nygard	Clay Bank
M. Bundy	Sister Bay

## DUNN CO.

Knapp Cheese Co.	Knapp
Elonzo Stodard	Downing
Torger Olson & Sehmore	Meridian
D. Chamberlain	Rock Falls
Carson & Rand	Eau Galle
Beaver Creek Cheese Co.	Amesberry

## EAU CLAIRE CO.

B. & A. Piper	Bridge Creek
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## FOND DU LAC CO.

Buslat, Morgan & Co.	Oakfield
Giffin Fact.	Lamertine
Wm. Chapneau	Ladoga
J. F. Neville	Aho
H. F. Sackett	Campbellsfort
Wm. Denz	Elmore
M. Fleischman	Wagner
Jos. Zeisel	St. Killian

FOND DU LAC CO.—Continued.

Albert Schmidt	Fond du Lac
Frank Bellmer	Fond du Lac
Wm. Zwicker	Vandyne
J. J. Stratz	Woodhull
J. A. Zwick	Lamartine
Rogersville Cheese Factory	Eldorado
E. A. Reed	Brandon
Hobbs Bros	Brandon
G. Eggers	Fond du Lac
Wm. Goulermouth	Fond du Lac
C. Haensgen	Mt. Calvary
John Keibsbach	Johnsburg
Landy & Bertman	Summit Station
L. Leahr	Johnsburg
S. M. Peebels	Peebles
A. Stepeny	Malone
John Rhinehard	Peebels
P. Wirtz	Summit Station
Henry Fick	New Cassell
Albert Koepke	New Fane
Wm. Lovrens	Kewaskum
D. D. Jones	Fond du Lac
O. P. Brown	Byron
A. Bristol	Oakfield
Joseph Fischer & Gtery	Fond du Lac
H. Reitz	Dotyville
P. Stepheny	Fond du Lac
Wm. Graham	Dotyville
E. W. Haddock	Waupun
M. B. Johnson	Waupun
F. L. Bacon	Waupun
S. E. Carrien	Waupun
P. Weiners	Johnsburg
M. J. Michels	Calumet Harbor
H. W. Bokins	Lomira
E. Korb	Marytown
John Baenemaker	Waupun
Joseph Wagner	Mt. Calvary
Mat. Wagner	Mt. Calvary
Henry Bloomine	St. Cloud
A. Wertesback	St. Cloud
M. Bourgeois	Mt. Calvary
Chester Hazon	Ladoga
Otto Behlen	Mt. Calvary
L. F. Skinner	Brandon
Galloway & Batchedar	Rosendale
A. C. Whitting	Ladoga
Van. Armstrong	Armstrong
Dennis Dailey	Mitchel
Geo. Tice	Mitchel
C. H. Esterbrook	Fond du Lac
Theo. Koepke	Fond du Lac
Robert Leith	Kirkwood
Thomas Leith	Kirkwood
F. W. McKinney	Fond du Lac
H. H. Browntree	Calumet Harbor
Perry Atwood	Waupun
W. H. Chapman	Ladoga
B. VanBalcorn	New Prospect
Henry Sachett	Campbellsport
Wm. Manel	Ashford
E. Peebels	Taycheeda
Phillipps & Son	Brotherstown
J. Michels	Jericho
C. Bertram	Johnsburg
H. Gulich	Calvary
M. Kramer	Charlesburg
Bells Bros	Calvary
M. Wagner	Calvary
M. Pickert	Malone
C. Hansgen	Malone
J. S. Mahoney	Fond du Lac
G. F. C. Wernick	St. Cloud
J. A. Smith	Glenbeulah
Geo. Hint	Banner
Theo. Dellng	Dotyville
A. Leonard	Dotyville
J. Fisher	Empire
D. Dailey	Armstrong
C. A. Koepke	Campbellsport
Wm. Koch	Kewaskum
B. A. Bomain	Kewaskum

E. Persche. darf	St. Michels
C. Hartman	Kewaskum
C. P. Haeger	West Bend
Wm. Tice	Aurora
Wm. Petri	Wayne
M. N. Gehl	Neno
Christienson Bros.	Big Flats
C. J. Fleischman	St. Kellian
Wm. Baltz	Calumetville
H. P. Kelley	Eden
J. T. Kelley	Eden
Wm. Boland	Lomira
Geo. Loyd	Eden
H. W. Robins.	Lomira
F. Bohnsack	Brownsville
G. G. Koch	Knowles
J. Wild	Leroy
J. J. Brayton	Fond du Lac
Wm. Zwickey	Vandyne
R. Leith	Kirkwood
Lith Bros.	Kirkwood
Geo. Geolyer	Lamartine
W. H. Chapman	Lamartine
C. M. McKenney	Burnett
S. Fardice	West Rosendale
S. W. Peebels	Picketts
Reed & Slyfield	Brandon

GRANT CO.

Chris. Miller	Homer
C. B. Hopkins	Homer
Geo. Jackson	Homer
Fennimore Branch Cheese Facy.	Fennimore
F. Beiderman	Fennimore
Knud Gunderson	Fennimore
H. H. Rountree	Platteville
Hurricane Cheese Factory	Hurricane
E. S. Morse	Lancaster
A. L. Snider	Mt. Hope
Frank Brown	Patch Grove
M. A. McMustin	Glen Haven
Snyder & Humes	North Andover
Blakes Prairie Cheese Factory	Bloomington

GREEN CO.

J. S. Rodrick	Brodhead
Charles Saule	Brodhead
Warren Howard	Albany
David Keu & Son	Juda
Thomas Munger	Brodhead
Spring Valley Cheese Co.	New Glarus
New Glarus Cheese Co.	New Glarus
Kimert Bros	New Glarus
J. L. Stues-ey	New Glarus
David H-fy	New Glarus
Con. Bables	New Glarus
Oswald Kukubies	New Glarus
New Glarus Cheese Co.	New Glarus
H. Altman & Co.	New Glarus
Durst Bros.	New Glarus
Fred Luehsinger	Bellville
C. Stauffocker	Monticello
D. Zimmerman	New Glarus
John Legler & Co.	New Glarus
Fred Kinderst	New Glarus
Geo. Morty	New Glarus
Fred Babler	New Glarus
Wm Engler	New Glarus
P. Klassrey	Farmers Grove
Jacob Frietog	New Glarus
Fred Legler & Co.	New Glarus
J. Eckelkrant	New Glarus
Poplar Grove Cheese Factory	New Glarus
S. Christen	New Glarus
W. E. Karney	Brodhead
F. Zweifel	Brodhead
R. Zweifel	Brodhead
J. Mueller	Brodhead
Aug. Giese	Brodhead
C. A. Gifford	Juda
J. J. Newman	Juda
James Alexander	Oakley

## GREENE CO.—Continued.

J. Miller	Oakley
Poplar Grove Factory	Bein
Postville Cheese Factory	Stewart
Farmers Grove Factory	Stewart
Hay Hollow Factory	Ula
Ed-more Cheese Factory	Ula
Swiggum Cheese Factory	Ula
Mrs. Kate Blum	Stewart
Andrew Kipfer	Stewart
The Ness Cheese Factory	Moscow
Stromman Cheese Factory	Ula
B. Stevenson	Blanchardsville
Yankee Hollow Cheese Fac.	Blanchardsville
J. Regez	Monroe
J. Maurer	Monroe
H. Kundert	Monroe
F. Luthy	Monroe
J. Sueser	Monroe
J. Wenger & Co.	Monroe
H. Elmer & Co.	Monroe
R. Bunkert	Monroe
J. Gamble	Browntown
P. Nalty	Jrdon
J. Kundert	Jrdon
J. Vogter	Jrdon
M. Haffmaster	Monroe
Geo. Ault	Monroe
Wild Bros	Farmers Grove
Melchias Murty	Farmers Grove
Ezra Blumer	Farmers Grove
Michael Flanigan	Monroe
W. S. Carrey	Argyle
James Smith	Argyle
C. Bluler	Monroe
C. Elemers	Monroe
John Barry	Argyle
Thomas Carry	Argyle
R. Patterson	Argyle
G. E. Bear	Stewart
Lenard Ross	Dayton
J. C. Frietog	Monticello
T. M. Carver	Dayton
H. Aebly	New Glarus
G. H. Williams	Syvester
G. H. & W. A. Pengra	Juda
A. Speicht	Monroe
S. Haman	Monroe
J. J. Stauffacker	Monroe
Peter Stauffacker	Monroe
Isiah Stauffacker	Monroe
Peter Wahlmend	Juda
Sam'l Hetzel	Juda
Greenbush Cheese Co.	Monroe
Thomas Hefty	New Glarus
G. Whitmore	New Glarus
J. C. Marty	Monticello
Werner Blumm	Farmers Grove
Chris. Thiels	Monticello
J. Weissmuller	Monticello
Rudolph Karlin	Monticello
R. Smith & Co.	Monticello
Wellingmeyer & Co.	Monticello
Fred Blum Jr., & Co.	Monticello
M. Zumkrumlin	Monroe
Ruth & Luxinger	Monroe
Mr. Beller	Monroe
J. Speicht	Syvester

## GREEN LAKE CO.

Page Bros	Berlin
R. J. Graves	Markesan
Seneca Butter & Cheese Factory	Berlin
Spring Brook Cheese Factory	Berlin

## IOWA CO.

Mare & Renick	Lindon
Wm Jewell	Mineral Point
C. Glanville	Lindon
Wright, Clayton & Co.	Mineral Point
J. Cowley & Co.	Dodgeville

Fred Meyers (3)	Rewey
John Wallis	Mineral Point
E. Waalrick	Mineral Point
James Waters	Mineral Point
Edwin Cullen	Mineral Point
Jacob Root (Swiss)	Mineral Point
Pulaska Cheese Factory	Avoca
Avoca Cheese Factory	Avoca
Hans Schallie	Muscoda
Thomas & Jones	Hillside
Anton Imhoff	Highland
Geo. Dax	Dry Bone
Henry Stallman	Pine Knob
G. Anderson	Union Mills
Walter Wall	Highland
M. J. Bennett	Clyde
Denis Shannon	Clyde
Wm. Carral & Co.	Pine Knob
Wm. Alton	Cobb
R. Leuber	Blanchardsville
C. Biazer	Blanchardsville
Frank Laverts	Mineral Point
Albert Chambers	Jonesdale
Waldneck Cheese Factory	Waldneck
P. J. Burnes Chee-e Factory	Hollandale
Arena Cheese Factory	Arena
Griffith & Mitchell	Dodgeville
Richard Rowe	Dodgeville
Mrs. Strub	Dodgeville
T. D. Jones	Dodgeville
Mound Creek Cheese Factory	Mazomanie
John Batton & Co.	Linden

## JACKSON CO.

M. Dickerson	Merrillan
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## JEFFERSON CO.

Charles Wallensack	Watertown
M. J. Roberts	Oconomowoc
Josse & Habbhigges	Watertown
Cold Spring Cheese Factory	Pelmyra
Charles Millard	Lake Mills
E. C. Dodge	Lake Mills
Dodge Bros	Lake Mills
Snyder Bros	Rome
P. M. Cartwright	Rome
Dowe & Ebbath	Oak Hill
Sullivan Cheese Factory	Sullivan
Lang & Maiden (3)	Watertown
A. R. Hoard & Co.	Fort Atkinson
Bark River Cheese Co.	Hebron
Wm. Marshall	Whitewater
Cooper & Newell	Whitewater
Geo. Bellet	Whitewater
R. F. McCutcheon	Whitewater
C. M. Griffith	Whitewater
Hoard Cheese Co.	Ft. Atkinson
J. P. Galloway	Whitewater
Geo. Hartell	Fort Atkinson
North Road Factory	Nevan
Bleeker Road Factory	Hubbleton
Milford Road Factory	Watertown
L. H. Burleson	Sumner
McCredie Bros.	Cambridge
M. F. Jones	Fort Atkinson
Roach & Seeber	Waterloo

## JUNEAU CO.

H. B. Asledown	Elroy
G. B. Dodge	Mauston
Sennemen & Rider	Mauston
Warren Kimball	Union Center
Fountain Co-operative D'y Co. Camp Douglas	Union Center
Twin Bluffs Cheese & Butter Co.	New Lisbon
F. & V. Steiner	Mauston
Powell & Lewis	New Lisbon

## KENOSHA CO.

Oatman Bros	Wilmot
Oatman Bros	Salem
Thayer Refrigerator Co.	Woodworth Station

KEWAUNEE CO.

Wencil Ulsberger.....	Ahnapee
Fred Leiskow.....	Ahnapee
Gustave Gueskee.....	Ahnapee
Charles Berg.....	Ahnapee
John Busch.....	Ahnapee
S. Stenck.....	Rankin
Bach Keinig.....	Carlton
Carlton Farmers' Dairy Association.....	Carlton
F. H. Clausky.....	Carlton
Thos. Heavaeck.....	Norman
West Sipple Farmer Co.....	Norman
Sandy Bay Cheese Factory.....	Sandy Bay
Minhan & Carral.....	Casco
Jas Onrednick.....	Slovan
Fred Bandnick.....	Slovan
Albreck & Co.....	Kewaunee
H. A. Hardtkee.....	Kewaunee
Robt. Pavlatt.....	Ryan
J. J. Walchkee.....	Keok
Fred Boudneck.....	Kewaunee
Frank Mantfort.....	Tanet
Felix Zandrain.....	Walhain
Chas. Stahl.....	Luxemberg
J. J. Subb.....	Luxemberg
Luxemberg Dilz.....	Luxemberg
Geo. Grassend.....	Luxemberg
Aug. Gasin.....	Walhain
Peter Engleding.....	Bolt
Stangle Bros.....	Stangleville
Murphy & Lawler.....	Curran
Jurphy Roth.....	Ellisville
Andrew Wallock.....	Pilon
Jacob Gorsche.....	Pilon
Fred Plink.....	Rankin
Joseph Wirz.....	Darbely
Joseph Servas.....	Tantt
Louis Boucher.....	Thiry Daems
Joseph Delauns.....	Lincoln
Win. Barrett.....	Duval
Desire Boulanger.....	Duval
Farmers' Cheese Factory.....	Lincoln
Sipple Dairy Association.....	Norman
Charles Rubers.....	Rosier
Aug. Kuschman.....	Rio Creek
Geo. Battkall & Bros.....	Euren
P. J. Challe.....	Lincoln
Amand Noel.....	Lincoln

LA CROSSE CO.

A. C. Hansen.....	Mindoro
Burns Cheese Association.....	Burns
Bangor Cheese Co.....	Bangor

LA FAYETTE CO.

Lead Mine Cheese Factory.....	Shullsburg
J. Berkhardt.....	Argyle
Jacob Sailer.....	Argyle
D. Weisse.....	Monroe
Lamont Central Cheese Co.....	Darlington
Centennial Cheese Co.....	Lamont
East Lamont Cheese Co.....	Argyle
J. Hall & Co.....	Wayne, Ill.
C. Graham & Co.....	Wayne, Ill.
J. P. Rockwell.....	South Wayne
O. B. Ellis & Co.....	South Wayne
Sylvester Murphy & Co.....	South Wayne
Chris Marty.....	Argyle
Samuel Kaudty.....	Argyle
John Jackman.....	Mineral Point
John McQuade.....	Darlington
Mt. Pleasant Factory.....	Mineral Point
Henry Smith.....	Fayette
Thos Conley.....	Fayette
Jacob Maritz.....	Argyle
Martin Johnson & Co.....	South Wayne

LANGLADE CO.

Antigo Creamery & Cheese Factory.....	Antigo
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LINCOLN CO.

George Battkell.....	Euren
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MANITOWOC CO.

Martiz Keil.....	Manitowoc
Frank Kerscher.....	Manitowoc
M. G. Madison.....	Osseo
Ed. Beirke.....	Clarks Mills
Tweersiney.....	Clarks Mills
Wm. H. Truetner.....	Clarks Mills
A. Zegolinsky.....	Cato
J. Murphy.....	Cato
J. Karbon.....	Rube
E. Wehausen.....	Rube
Ole O. Gekstadt.....	Eaton
Chas. Sutzske.....	St. Nazainz
Andrew Maiman.....	St. Nazainz
Aug. Klesreg.....	St. Wendel
Adolph Klesreg.....	St. Wendel
Henry Henger.....	St. Wendel
Oscar Barthell.....	St. Wendel
Fred Luch.....	Hika
F. A. Keitsman.....	Hika
Herman Dapler.....	Hika
Aug. Bahr.....	Hika
Joseph Zelinske.....	Greenstreet
Chas. Hobeck.....	Greenstreet
James Smith.....	Stark
Joe Fraelech.....	Rosecrans
Vit. Suster & Co.....	Rosecrans
A. D. Mate (2).....	Maple Grove
Pat Cane.....	Maple Grove
Kerby & Munhall.....	Grimms
B. C. Peck.....	Taus
Peter Geimer.....	Larabee
Reish & Rehbein.....	Larabee
Julius Rehbein.....	Larabee
J. A. Glemmer.....	Cooperstown
Farmer's Cheese Factory.....	Melnick
John Steber.....	Melnick
Chas. Hoops.....	Two Rivers
Acolph Clewein.....	Two Rivers
Henry Reiker.....	Two Rivers
Aug. Earthman.....	Nero
Matt Matthiason.....	Nero
Fred Wagenknect.....	Keil
Wm. Zellman.....	Keil
Aug. Lueluff.....	Keil
Warren Lawrence.....	Keil
Mrs. Mallman.....	Steinthall
G. F. Meyer.....	School Hill
Fred Meyer.....	School Hill
Frank Weike.....	Lous Corners
Aug. Schleims.....	Mill Home
Simon Bremer.....	Alverno
Henry Baechause.....	Alverno
Fred Fetter.....	Alverno
Chas. Bahr.....	Branch
Fred Bremer.....	Manitowoc
Henry Hecker.....	Manitowoc
J. P. Nolan & Co.....	Reedsville
H. Hebern.....	Reedsville
L. Goldback.....	Reedsville
L. Guele.....	Kasson
J. A. Horn.....	Kasson
Henry Kamman.....	Edwards
Maritz Lamine.....	Edwards
Fred Olin.....	Edwards
Henry Roathell.....	Meeme
Q. A. Dantort.....	Meeme
John Hertell.....	Meeme
J. B. Eicke.....	Meeme
John Miller.....	Osman
A. Wallenbach.....	Osman
Fred Mueller.....	Mishicot
H. Engelland.....	Mishicot
Chas. Weinfurther.....	Mishicot
Henry Bedker.....	Mishicot
John Backhaus.....	Mishicot
F. W. Stangles.....	Fisch Mills

MARINETTE CO.

Fred Koepke.....	Pestego
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## MONROE CO.

R. B. Dunlap	Kendalls
L. N. Sweet	Kirby
Oscar Phillips	Warrens Mills
G. F. Eberdt	Warrens Mills
H. H. Harris	Warrens Mills
Clifton Cheese Co.	Clifton
Roof & Robinson	Norwalk

## MARATHON CO.

Ed. Brehn	Colby
L. Keihl	Athens
H. A. Jacoby	Denney
A. Schilling	Marathon
M. T. Nichles	Wein
P. Christianson	Wein
Wm. Noll & Son	Marshfield
Sherman Cheese Factory	Spencer
Brighton Cheese Factory	Spencer
T. J. Schmidt	Rozelville
David Spindler	Rozelville
Fred Olmes	Rozelville

## OCONTO CO.

J. A. Swan	Gillet
C. Petterson	Kelley Brook

## OUTAGAMIE CO.

Charles Brietrick	South Osburn
Casper Haitz-hek	Apple Creek
Theo. Nabbeifeld	Sagale
Chas. Jinkins	Seymore
Jacob Nall	Seymore
E. Zighheard	Seymore
J. R. Meyers	Seymore
Louis Grubb	Seymore
Charles Hann	Seymore
Herman Jerke	Seymore
John Miller	Seymore
John Fosterbender	Appleton
F. E. Putney	Appleton
W. Verrity	Appleton
H. Zoune	Appleton
Fritz Stackler	Neeah
Aug. Garlach	Apple Creek
S. L. Reed	Medina
Steve Reil	Medina
C. Whittinger	Dale
S. D. Cannon	Dale
B. Nelson	Dale
A. Nelson	Dale
P. Miller	Hortonville
James McMurde	Hortonville
A. Aderhold	Hortonville
John Morgan	Hortonville
P. Morrisey	Appleton
Henry Leppla	Appleton
Steafler	Appleton
C. Hackman	Bear Creek
Aug. Bareman	Binghampton
W. F. J. Strasburger	Binghampton
C. Westgate	Hortonville
Peter Steffen	Hortonville
Peter Olk	Hortonville
Mrs. Wm. Young	Medina
Peter Fashender (3)	Bungert
Shiocton Cheese Factory	Shiocton
Bailton Cheese Factory	Seymore
Osborn Cheese Factory	South Osborn
Busche's Cheese Factory	Appleton
A. L. Murphy	Hortonville
L. Griswold	Hortonville
Peter Dooley	Shiocton
B. Griesie	Binghamton
P. E. Reineking (2)	Bungert
Peter Dooley	Stepensville
F. A. Docken	Stepensville
John Fahey	Osborn
John Gruje	Becker
E. P. Straslenrager	Black Creek
Otto Mesling	Black Creek

Ed. Degnet	Black Creek
Thomas McNin	Black Creek
F. J. Mulvey	Bear Creek
Martin Steriegel	Macksville
M. Gainor	Macksville
Cnas. Stafford	Macksville
John Nagle	Macksville
John Steffer	Macksville
John Feidt	Macksville
E. L. Andershalid	Plymouth

## OZAUKEE CO.

E. L. Eastman	Saukville
Theban Micheal	Saukville
Peter Miler	Saukville
Julius Klusrig	Fredonia
C. H. Witt	Fredonia
Julius H. Klessing	Fredonia
Chas. Sc uster	Fredonia
Frank Knepfer	Dacoda
Vic. Keiffer	Dacoda
J. V. Depiere	Dacoda
Vic. Perrin	Dacoda
C. H. Korkman	Port Washington
J. P. Willenstein	Pert Washington
J. P. Fleshinger	Port Washington
H. Shellenburg	Horns Corners
Wm. Munteloff	Cedarsburg
He. Gellon	Ce. arsburg
P. Pfeifer	Cedarsburg
Jacob Merty	Holy Cross
H. J. Wester	Holy Cross
Peter Kisrich	Holy Cross
Sav. Schnelle	Holy Cross
A. Athain	Belgium
Vic Post	Belgium
J. L. Schmedler	Belgium
Frank Wellenstein	Belgium
John Turn	Belgium
M. Wester	Belgium
C. Gerbach	Belgium
Aug. Hadler	Grafton

## PEPIN CO.

W. V. Dorwin	Durand
W. K. VanHousen	Durand
Chamberlain, Hakes & Co.	East Pepin

## PIERCE CO.

Peter Keebsbact	Plum City
Geo. Haessy	Esdaile
Soren Sorenson	Giltman
I. A. Hess	Olivet

## POLK CO.

Koch Bros.	East Farmington
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## PORTAGE CO.

John Harkness	Amherst
M. H. Doenitz	Almond
J. Housfeldt	Grand Rapids
Frank Geisler	Grand Rapids
Joe Esterley	Ellis
W. W. Carey	Amherst

## RACINE CO.

C. B. McCanna	Rochester
C. B. McCanna	Waterford
C. B. McCanna	Honey Creek
C. B. McCanna	Caldwell
C. B. McCanna	Sylvania
C. B. McCanna	Burlington
Rochester Cheese Factory	Rochester
North Cape Cheese Factory	North Cape

**RICHLAND CO.**

C. & D. Beckwith	Dixon
J. M. Thomas	Dixon
F. E. Gaswell	Lone Rock
Joe Ward	Bear Valley
C. Greenheck	Bear Valley
B. F. Winterburn	Bear Valley
Westford Factory	Cazenovia
A. Lincoln	Neptune
H. Schaup	Ithaca
C. W. Davis	Ithaca
G. Miles	Sextonville
J. P. Heri	Viola
B. W. Lawton	Viola
Boaz Cheese Factory	Basswood
John Warner	Gillingham
J. K. Powell	Baumoral
C. B. Cornwall	Basswood
O. Reeb & Downer	Balmoral
David Dewey	Bird Creek
G. H. Roundree	Sabin

**ROCK CO.**

R. O. Chapple	Evansville
C. V. Borst	Milton
Phillip Borst	Milton
J. V. & F. Newell	Whitewater
H. & J. D. Godfrey	Whitewater
Spring Valley Factory Ass'n	Orfordville
R. R. Carlton	Koshkonong
Mrs. Sowels	Clinton Junction

**ST. CROIX CO.**

Grastie & Moe	Baldwin
Boardman Cheese Factory	Boardman
Lewis & Beers	Burkhardt
F. R. Winters	Little Falls

**SAUK CO.**

Edward Sherwood	Spring Green
Joe Maxwell	Spring Green
Baraboo Cheese Factory	Baraboo
A. & D. Beckwith	Dixon
Frank Wetzel	Bear Valley
Chas. Schmalley	Black Hawk
Aug. Krueger	Sandusky
Oak Grove Cheese Factory	Plain
Clover Hill Cheese Factory	Plain
Geo. Sprechen	Black Hawk
White Mound Cheese Factory	White Mounds

**SHAWANO CO.**

G. J. Brummels	Banduel
N. S. Felton	Banduel
Brummel Bros	Cecil
Henry Ainsworth	Shawano
F. F. Wirth	Shawano
Chas. Wescotte	Shawano
Wm. Wilkers	Shawano
Fred Kroenig	Leapoies
Chas. Wilde	Pela
M. O. Sorenson	Frazer
Fred Ketchenmaster	Rose Lawn
Joe Kurtz	Pulcifer
Albert Uecker	Angelica

**SHEBOYGAN CO.**

Manteink & Lenkell	Waldon
W. S. Leroy	Waldon
Hunch Bros	Waldon
L. Buchin	Cascade
Aug. Wolf	Cascade
Wm. Frasharn	Cascade
Wm. Heberer	Cascade
Daniel Morgan	Cascade
Leo Baldhorn	Wenoske
F. L. Harman	Wenoske
Frank Hughs	Wenoske
H. Goldbeck	Wenoske

J. O'Connell & Bros.	Beechwood
Ed. O'Connell	Beechwood
Chris Hartman	New Fane
John Miller	Scott
John Gering	Scott
Geo. Brackbour	Elkhart
Wm. Reineck	Elkhart
Henry Reineck	Elkhart
A. Buckman	St. Anna
A. D. Deland	Sheboygan Falls
E. B. Melendy	Sheboygan Falls
Baldt Bros	Sheboygan Falls
Degrad & Truetschel	Sheboygan Falls
H. Erbströsses	Sheboygan Falls
Darrow & Klemmer	Sheboygan Falls
Henry Prange	Sheboygan Falls
Geo. Kuenze	Sheboygan Falls
J. Darro ws	Sheboygan Falls
F. Wedder	Sheboygan Falls
M. M. Skinnan	Sheboygan Falls
Wm. John	Sheboygan Falls
Otto Ehrlick	Sheboygan Falls
A. Habbehurst	Sheboygan Falls
H. A. Joslyn	Sheboygan Falls
Henry Kapper	Gibbsville
J. G. Ruuwesdrink	Gibbsville
John Wessekirk	Gibbsville
Chas. Gartman	St. George
John Khaen	St. George
Munch Bros	Mosel
Otto Hunsch	Mosel
C. F. F. Karstaedt	Mosel
Herman Buchel	Mosel
Henry Keppler	Mosel
M. Wagner	Mosel
Schrieber & Straus	Mosel
Julius Ochs	Mosel
J. W. Tendall	Hingham
G. J. Tempar	Hingham
Michael Co-grove	Rathburn
James Redington	Ains
J. J. O'Connell	Parnell
J. Devene	Parnell
Louis Helmes	Plymouth
Herman Schriebs	Plymouth
Chas. Deitrick	Plymouth
John Stockes	Plymouth
Ed. Curtiss	Plymouth
Christ Link	Plymouth
T. Seinner	Plymouth
H. Chapman	Plymouth
H. Schultz	Plymouth
Wm. Kde	Plymouth
Mr. Gowen	Plymouth
John H. Best	Johnsonville
Acolph Fasse	Johnsonville
F. W. Raeder	Johnsonville
Jacob Strubb	Rhine
Geo. Harneck	Rhine
Henry Harneck	Rhine
John Love	Keil
Aug. Ott	Edwards
Henry Roeder	Edwards
John Heisdorf	Edwards
W. Siener	Edwards
F. Wegner & Co.	Ada
John Spindler	Ada
Fred Luke	Howards Grove
Henry Kerscheck	Howards Grove
Ed. Schmeidel	Howards Grove
Simon Runeking	Franklin
James Pfeifer	Franklin
L. Resseberg	Franklin
H. Walvoard	Cedar Grove
Vand-Wall & Huntznink	Cedar Grove
J. D. Smith	Cedar Grove
J. E. Daune	Cedar Grove
E. Henvens	Cedar Grove
G. Gratenhuis	Cedar Grove
F. Wallvoard	Cedar Grove
Teronda Bros	Ostberg
Peter Spranger	Ostberg
Weinkuel & Subberts	Ostberg



Joe Hensink .....	Ostberg
Dulmar Bros .....	Ostberg
E. VanDeWall .....	Hoard
T. H. Lamb & Co. ....	Hoard
J. J. Angas .....	Greenbush
G. C. Mayhew .....	Greenbush
G. E. Webb .....	Greenbush
J. H. Tackery .....	Glen Buelah
Carr & Goessling .....	Glen Buelah
J. A. Smith .....	Glen Buelah
Wm. Flath .....	Glen Buelah
Capt. Knowels .....	St. Cloud

## TAYLOR CO.

Farmer's Cheese Factory .....	Medford
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## TREMPEALEAU CO.

W. P. Massers & Co. ....	Arcadia
Riverside Cheese Factory .....	Trempealeau

## VERNON CO.

Warren Kimble .....	Hillsborough
Joseph H. McLees .....	Springville
C. C. Olson .....	Bristow

## WALWORTH CO.

Oatman Bros .....	Dundee, Ill
Buchanan & Gibbons .....	Oak Park, Ill
B. Benson .....	Slades Corners
Harvey Marr .....	Whitewater
J. Newell .....	Whitewater
Wm. Taylor .....	Whitewater
Cold Spring Cheese Factory .....	Whitewater
Wm. Marshall .....	Whitewater
Mars & Kochell .....	Whitewater
Mars, Snyderkras & Co. ....	Whitewater
Bellet & Marshall .....	Whitewater
R. Smith .....	Whitewater
Harvey Godfrey .....	Whitewater
J. P. Galloway .....	Whitewater
Lang & Maiden .....	Whitewater
Whitewater & Richmond Ch. Co .....	Whitewater
Snyder Bros .....	Little Prairie

## WASHINGTON CO.

J. Reick .....	Newburg
J. Schroeder .....	Newburg
M. J. Mertz .....	Myra
Wm. Koch .....	Kewaskum
J. L. Benchy .....	Allentown
R. Rice .....	Anrora
Ed. Knapp .....	West Bend
Thos. Jordan .....	Rockfield
Phil Kuhn .....	Rockfield
Peter P. Best .....	Rockfield
H. R. Bund & Co. ....	Rockfield
Frank Fraeielck .....	Jackson
H. Reesemeyer .....	Kirchbays
Stanske & Co. ....	Salt-r
J. G. Franks .....	Franks
Wendel Petrie .....	Wayne
J. Hamm .....	Rahlesville
L. Guth .....	Ackersville

## WAUPACA CO.

Chris Nelson .....	Iola
Henry Waltrath .....	New London
N. Flease .....	Ostrander
Mrs. Fanny Gibbons .....	Lind
Peter Zensen .....	Clintonville
Jacob Stieger .....	Fremont
Jerry Hickman .....	Fremont
Mary E. Smith .....	Fremont
A. L. Hutchinson .....	Weyauwega
Spring Hill Factory .....	Waupaca
Foster & Rogers .....	Symco
J. M. Leeds .....	Mable

Chas. Delo .....	Symco
P. N. Casper .....	Nickolson
Chas. Hackman .....	Bear Creek
M. L. Munzert .....	Clintonville
Arthur Lindsley .....	Manawa
J. Vernalt .....	Readfield

## WINNEBAGO CO.

Lake Poygan .....	Poygan
D. Grassman .....	Omro
Floral Creamery Co. ....	Omro
A. Barter .....	Omro
Pat. Flanagan .....	Omro
James Carpenter .....	Eureka
B. F. Trett .....	Waukau
Chris Bass .....	Clintonville
Wm. Greenwald .....	Clintonville
John Ryf (Swiss) .....	Oshkosh
Chris Perrin .....	Oshkosh
M. Kettle .....	Oshkosh
J. H. Fosger .....	Koro
Joseph Vogt .....	Orihulah
S. S. Walters .....	Orihulah
Wm. Bribbernow .....	Zittaw
J. H. Demhardt .....	Neenah
G. C. Jones .....	Neenah
Cold Spring Cheese Factory .....	Neenah
West Menasha Cheese Factory .....	Neenah
Chet Robier .....	Neenah
S. Frasier .....	Neenah
Frank Loyd .....	Neenah
T. J. Hough .....	Winchester
Fred Drover .....	Winchester
Ben-dict Bros .....	Van Dyne
Henry Schallers .....	Van Dyne
John Mueller .....	Winneconne
C. Humphrey .....	Winneconne
P. J. Gunderson .....	Winneconne
Adolph Grime .....	Butte Des Morte
Aug. Barth .....	Poygan
Ed. Schultz .....	Poygan
Ed. & J. Berry .....	Poygan
S. W. Peebles .....	Picketts
Stanton Fordice .....	Picketts
Chas. Marrino .....	Winneconne
C. Washburn .....	Eureka
Angus & Humphrey .....	Nekimi
A. Shinglehalt .....	Oshkosh

## WAUSHARA CO.

Waushara Dairy Association .....	Berlin
Aurora Butter & Cheese Co. ....	Auroraville
Joseph Mathews .....	Auroraville
Clark & Floyd .....	Berlin
Walters Cheese Factory .....	Berlin
Oasis Cheese Factory .....	Berlin
C. J. Walters .....	Brushville
Mt. Morris Cheese Factory .....	Mt. Morris
John Lind .....	Tustin
John Shinglehalt .....	Tustin
Herman Kaler .....	West Bloomfield
Pine River Dairy .....	Pine River
E. E. Terril .....	Terril
Marian Cheese & Bntter Co. ....	Spring Lake
Spring Brook Cheese Factory .....	Rodney
Wild Rose Cheese Factory .....	Wild Rose
Wm. Paul Doenitz .....	Plainfield
Poyssippi Dairy Co. ....	Poyssippi
Fountain Valley Cheese Co. ....	Poyssippi
J. R. Wilcox .....	Hamilton

## WOOD CO.

Joseph Marraw .....	Rudolph
A. J. Emper .....	Milladore
John Blenker .....	Blenker
Herman Thiel .....	Snow
Anton Hemsler .....	Bakerville
Johnson, Hill & Co. ....	Centralia
Four Mile Creek Cheese Ft'y. ....	Grand Rapids

WAUKESHA CO.

Dyer & Hopkins.....	Whitewater	Town Line Factory .....	Stone Bank
H. J. Roberts.....	Oconomowoc	Monterey Factory .....	Monterey
Davis & Smith.....	Big Bend	Brown Street Cheese Factory.....	Mapleton
Harris & West.....	Eagle	Genesee Cheese Factory.....	Genesee
Frank Allen.....	Waukesha	North Prairie Cheese Factory.....	Genesee
Harris Bros.....	Waukesha	David Felix.....	Genesee
Weiner Cheese Factory.....	Weines	J. F. Wells.....	Summit Center
		Wines & Langley.....	Douseman

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## FINANCIAL STATEMENT.

Disbursements for two years ending September 30, 1892.

Postage.....	\$117 60	.....
Rent of laboratory.....	500 00	.....
Printing.....	170 50	.....
Sundries.....	69 92	.....
Express.....	71 42	.....
H. K. Loomis.....	201 74	.....
H. K. Loomis, from October 1, 1890, to June 1, 1891.....	214 72	.....
F. G. Short.....	685 88	.....
F. G. Short, from October 1, 1890, to June 1, 1891.....	153 71	.....
H. C. Thom, October 1, 1890, to June 1, 1891.....	690 37	.....
W. A. West.....	489 19	.....
George S. Cox.....	14 21	.....
D. L. Harkness.....	510 75	.....
Total.....	\$3,890 01	=====

The following statement shows the number of persons who were prosecuted for selling impure and adulterated milk, and the penalties inflicted:

J. A. Smith.....	\$20 00 and costs
M. Kirrans.....	10 00 and costs
F. H. Helwick.....	10 00 and costs
John Saveland.....	20 00 and costs
M. Berg.....	10 00 and costs
H. S. Bust.....	20 00 and costs
Henry Rehfeldt.....	20 00 and costs
W. Wachholz.....	20 00 and costs
John Mayers.....	20 00 and costs
H. Meyer.....	20 00 and costs
H. Dicles.....	20 00 and costs
A. Schunk.....	10 00 and costs
A. Barth.....	20 00 and costs
D. Wrench.....	10 00 and costs
A. Nolte.....	20 00 and costs
W. P. Walmers.....	20 00 and costs
F. Finger & Son.....	20 00 and costs
H. Wett.....	20 00 and costs
Carl Dabeske.....	10 00 and costs
A. Tiegs.....	20 00 and costs
I. Bensick.....	10 00 and costs
I. Hartgrink.....	10 00 and costs
M. Vanderwalde.....	10 00 and costs
I. Lamair.....	10 00 and costs
W. Younger.....	10 00 and costs
F. Brandt.....	10 00 and costs
F. Krause.....	10 00 and costs
W. Able.....	10 00 and costs
Aug. Puls.....	10 00 and costs
Geo. Schmidtman.....	10 00 and costs
Aug. Kramer.....	10 00 and costs
Loui Johnston.....	10 00 and costs
G. F. Kimball.....	10 00 and costs
Geo. Falkinstein.....	10 00 and costs
I. Dekarska.....	10 00 and costs
C. Wiland.....	10 00 and costs
John Fraser.....	10 00 and costs
W. Vanderhide.....	10 00 and costs
W. Willer.....	10 00 and costs
G. H. White.....	10 00 and costs
Aug. Bratze.....	10 00 and costs
G. Witt.....	10 00 and costs
Peter Williams.....	10 00 and costs
Fred Preim.....	10 00 and costs
W. Steinfest.....	10 00 and costs
Mrs. Krisenitski.....	10 00 and costs
John Dugan.....	10 00 and costs
Mat Cavanaugh.....	10 00 and costs
C. L. Roberts.....	10 00 and costs
W. Coats.....	10 00 and costs
Hans Olson.....	10 00 and costs
W. Landtke.....	10 00 and costs

## ANALYSES OF BUTTER.

Lab. No.	Butter Makers.	Location.	Quality.
978	Pure Butter.....		
991	Sawyer & Son.....	Milwaukee.....	Butterine.
3,043	Neil Smith.....	Superior.....	Butter.
41	Sullivan Cromes.....	Ashland.....	Butter.
45	John Wade.....	Ashland.....	Butter.
46	P. Keenan.....	Ashland.....	Butter.
47	W. Ruthe.....	Ashland.....	Butter.
48	Stenze Bros.....	Ashland.....	Butter.
49	Eimon Bros. & Eken.....	Superior.....	Butter.
3,050	Broad Grocery.....	Superior.....	Butter.
51	Rogers & Hicks.....	Superior.....	Butter.
52	Ander-on Cash Grocery.....	Superior.....	Butter.
53	West Superior Tea Co.....	Superior.....	Butter.
54	C. Daigh.....	Superior.....	Butter.
55	Simon Clark & Co.....	Superior.....	Butter.
56	John Dahl & Estland.....	Superior.....	Butter.
57	Tweckes & Wright.....	West Superior.....	Butter.
3,065	E. A. Shattuck.....	Janesville.....	Butter.
3,069	Powers & Marsalge.....	Ashland.....	Butter.
3,070	L. Lawson & Co.....	Ashland.....	Butter.
3,075	Oleson & Peterson.....	West Superior.....	Butter.
3,076	B. J. Buchanan.....	Ashland.....	Butter.
77	W. H. McWelles.....	Ashland.....	Butter.
78	Headquarters Grocery.....	Chippewa Falls.....	Butter.
79	A. Belais.....	Chippewa Falls.....	Butter.
3,080	E. Jones & Co.....	Eau Claire.....	Butter.
81	P. Morris.....	Chippewa Falls.....	Butter.
82	Peter Hansen.....	Eau Claire.....	Butter.
3,083	Dick & Jasper.....	Chippewa Falls.....	Butter.
3,084	G. Reinke.....	Marinette.....	Butter.
85	F. Deevernes.....	Green Bay.....	Butter.
86	Hans Peterson.....	Eau Claire.....	Butter.
3,090	Harrison & Oleson.....	Eau Claire.....	Butter.
91	N. W. Tea and Seed Store.....	Chippewa Falls.....	Butter.
92	Eau Claire Grocery Co.....	Eau Claire.....	Butter.
93	W. H. Herland.....	Eau Claire.....	Butter.
94	Ansted & Thompson.....	Eau Claire.....	Butter.
3,096	Bungment.....	Green Bay.....	Butter.
97	John & Davis.....	Marinette.....	Butter.
98	Otto Luntz.....	Marinette.....	Butter.
99	Braun & Van.....	Green Bay.....	Butter.
3,100	John Beth & Sons.....	Green Bay.....	Butter.
3,101	Place & Smith.....	Marinette.....	Butter.
3,124	H. G. Buenzel.....	Milwaukee.....	Butter.

## ANALYSES OF MILK.

Lab. No.	From whom taken.	Address.	But- ter fat.	Lab. No.	From whom taken.	Address.	But- ter fat.
812	W. Shatky....	Francis Creek	3.44	881	P. R. Robley	Cato.....	4.40
813	Peter Bade....	Francis Creek	4.35	882	Sample from vat	Cato.....	3.90
814	Frank Worel...	Francis Creek	3.88	883	S. Kulbeck	Cato.....	4.40
815	J. L. Sakow....	Francis Creek	3.40	884	G. Tollefson...	Cato.....	3.60
816	Watts Omanda	Francis Creek	3.92	885	W. Tucklan...	Cato.....	4.30
817				886	T. Miller	Cato.....	3.10
818	C. Stahfeld....	Cato.....	3.32	887	B. Murphy	Cato.....	4.20
819	Wencil Mendlick	Appleton...	4.22	888	G. Klamm	Cato.....	4.20
820	Meyer Bros....	Appleton...	3.00	889	G. Iperson....	Cato.....	3.20
821	C. Meyer.....	Appleton...	3.60	890	E. Convey....	Cato.....	3.10
822	J. Meyer.....	Appleton...	3.00	891	W. Meyers....	Cato.....	3.80
823	J. Tisen.....	Appleton...	2.40	892	Jack O'Neal...	Maple Grove..	4.90
824	J. Josten.....	Appleton...	1.30	893	T. Keehan	Maple Grove..	3.90
825	W. Vandunsten	Appleton...	3.60	894	M. Cavanaugh.	Maple Grove..	3.80
826	J. Krull.....	Appleton...	3.40	895	Mrs. Coffey	Maple Grove..	3.05
827	H. Krull.....	Appleton...	2.90	896	D. Cavanaugh.	Maple Grove..	3.50
828	Mrs. L. Shrader	Appleton...	3.00	897	Martin Conors.	Maple Grove..	4.10
829	M. Kirby.....	Appleton...	3.00	898	Patie Cune	Maple Grove..	3.35
830	F. Glasbender.	Appleton...	3.20	899	P. Gubin	Maple Grove..	4.20
831	A. Peters.....	Appleton...	3.50	900	F. Aundrach..	Maple Grove..	4.20
832	J. Ottenbrook.	Appleton...	3.40	901	M. O'Neal	Maple Grove..	3.90
833	J. Abenduth..	Appleton...	3.20	902	John O'Brien.	Maple Grove..	3.20
834	Geo. Goamanz.	Appleton...	3.20	903	James Marrico	Maple Grove..	4.00
835	M. Kisdook...	Appleton...	3.20	904	A. Kickheaffer	Maple Grove..	4.00
836	Chas. Keiting..			905	Dan Larcy....	Maple Grove..	4.10
837	Vancher Valding	Appleton....	2.60	906	Jim Nolan	Maple Grove..	4.10
838	H. Birring....	Appleton....	3.00	907	Pat Fielding..	Maple Grove..	4.00
839	W. Sauks.....	Appleton....	3.60	908	J. Gulim.....	Maple Grove..	4.20
840	F. Colman....	Appleton....	4.00	909	Dan Keef....	Maple Grove..	3.70
841	Geo. Meyer....	Appleton....	3.20	910	Mike Connel..	Maple Grove..	2.70
842	Katherine Doling	Appleton....	2.60	911	J. Dugan	Maple Grove..	3.80
843	Portland But. & Ch. Assn.	Waterloo....	3.00	912	C. H. Heing...	Maple Grove..	4.10
844	John Gramling	Weiner.....	3.20	913	E. Simmons...	Maple Grove..	3.80
845	Wm. Cramer...	Weiner.....	3.20	914	Dan Husie...	Maple Grove..	4.10
846	P. Gramling...	Weiner.....	3.10	915	Ton. Franklin.	Maple Grove..	3.30
847	B. Mendshaw..	Weiner.....	2.70	916	Mike O'Brien.	Maple Grove..	2.90
848	A. Gramling...	Weiner.....	3.70	917	M. Kirby	Appleton....	4.65
849	Ed. Mylton...	Weiner.....	3.20	922	Wm. Vandunston	Appleton....	4.69
850	John Menchon.	Weiner.....	3.30	923	John Tison...	Appleton....	4.90
851	J. Owens.....	Weiner.....	3.20	924	W. Cramer....	Wines.....	1.16
852	— Berlanck...	Weiner.....	3.20	925	Ed. Moor....	Plymouth....	3.06
853	R. Sell.....	Weiner.....	3.30	926	H. Miller	Plymouth....	3.07
854	C. W. Hooker..	Weiner.....	3.20	927	A. Bechlin...	Plymouth....	3.60
855	I. Gramling...	Weiner.....	4.10	928	L. Passch....	Plymouth....	3.00
856	H. Crayle...	Weiner.....	3.29	929	A. F. Lirapp...	Plymouth....	4.00
857	L. Lewis.....	Weiner.....	4.10	930	C. Nutt	Plymouth....	3.60
858	G. Hawk.....	Weiner.....	3.20	931	O. D. Mellan...	Plymouth....	3.00
859	B. Jones.....	Weiner.....	3.20	932	Mike Connel..	Maple Grove..	4.00
860	D. R. Davis...	Weiner.....	4.10	933	Mike O'Brien.	Maple Grove..	5.00
861	C. Howell....	Weiner.....	3.20	934	A. Uhlhau...	Plymouth....	3.00
862	W. Cramer....	Weiner.....	3.20	935	Geo. Nohl	Johnsonville.	3.55
863	R. Evans.....	Weiner.....	2.60	936	L. Bantman...	Johnsonville.	3.60
864	H. Buschell...	Weiner.....	3.30	937	H. Ruitkee...	Johnsonville.	3.20
865	W. Sten.....	Weiner.....	3.40	938	W. Beth....	Johnsonville.	4.20
866	H. Cramer....	Weiner.....	3.90	939	H. S. Klemmie.	Johnsonville.	3.60
867	Mrs. Mary Edwards	Weiner.....	3.60	940	F. Fasse....	Johnsonville.	3.60
868	Jo. Link.....	Weiner.....	3.6	941	S. Fasse....	Johnsonville.	3.20
870	T. Thom.....	Cato.....	3.70	942	L. Baeger....	Johnsonville.	3.80
871	D. Loughlin..	Cato.....	3.60	943	C. Frewert...	Johnsonville.	4.00
872	F. Malburgh..	Cato.....	4.80	944	H. F. Klemmie	Johnsonville.	4.20
873	A. Gunther...	Cato.....	3.00	945	F. Distelharst.	Johnsonville.	4.20
874	J. Munnhall..	Cato.....	4.40	946	A. Herzog...	Johnsonville.	4.00
875	L. Laughlin..	Cato.....	3.40	947	H. Meinert...	Johnsonville.	3.30
876	E. Robley....	Cato.....	4.40	948	H. Raedman, Jr	Johnsonville.	4.00
877	J. Miller.....	Cato.....	3.80	949	A. Kuhkee...	Johnsonville.	3.80
878	J. Lenburger..	Cato.....	3.80	950	A. Kuhfuss...	Johnsonville.	3.80
879	M. McCount...	Cato.....	4.40	951	Geo. Demerlem	Johnsonville.	2.90
880	M. Pretzel....	Cato.....	3.70	952	H. Raedman.	Johnsonville.	3.80
				953	O. Grevsind..	Mt. Horeb...	3.10
				954	Ole Bakstad..	Mt. Horeb...	3.80
				955	C. Foreson...	Mt. Horeb...	3.40

ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	But- ter fat.	Lab. No.	From whom taken.	Address.	But- ter fat.
954	D. Ryan	Mt. Horeb	3.10	1005	Fred Hem- ming	Eldorado	3.40
957	Skim milk	Mt. Horeb	0.10		Nye Whipple	Eldorado	3.20
958	F. Theiss	Mt. Horeb	3.80	1006	J. Staley	Eldorado	3.20
959	M. Deneen	Mt. Horeb	3.10	1007	W. Eeke	Waldo	3.00
960	Geo. Berge	Mt. Horeb	3.20	1008	Mrs. C. Scheckel	Waldo	3.20
961	J. H. Anderson	Mt. Horeb	3.40	1009	W. Keller	Waldo	3.20
962	Ole Uldrickson	Mt. Horeb	3.80	1070	A. Nagle	Waldo	3.20
963	A. Lunde	Mt. Horeb	3.10	1071	D. J. Arm- strong	Waldo	3.50
964	H. Weneske	Mt. Horeb	3.60	1072	B. Lee	Waldo	3.20
965	O. Dukken	Mt. Horeb	3.30	1073	Johnson Bros.	Waldo	3.20
966	K. Lunde	Mt. Horeb	3.40	1074	H. Douglas	Waldo	3.20
967	B. Bat	Mt. Horeb	3.20	1075	J. Mersberger	Waldo	3.60
968	J. Oleson	Mt. Horeb	4.00	1076	F. Vaness	Waldo	3.40
969	L. Dahl	Mt. Horeb	3.60	1077	E. McEntyre	Waldo	3.20
670	A. Felle	Mt. Horeb	3.80	1078	J. Scharp	Waldo	3.30
971	K. Glsma	Mt. Horeb	3.80	1079	H. K. Strad.	Waldo	3.00
972	Skim Milk No. 2	Mt. Horeb	0.01	1080	C. O'Neal	Waldo	3.20
973	M. Kinema	Mt. Horeb	1.00	1081	Wm Peterson	Waldo	3.00
974	F. Wilkins	Mt. Horeb	3.70	1082	J. Witcox	Waldo	3.30
975	R. Ronner	Mt. Horeb	4.00	1083	C. Sibly	Waldo	3.40
976	H. Thompson	Mt. Horeb	3.40	1084	J. Ousten- house	Waldo	3.40
979	C. Biemer	Fairwater	3.40	1085	C. R. Mead	Waldo	3.40
980	G. Stetler	Fairwater	3.10	1086	F. B. Ggenbeck	Waldo	3.00
981	C. Cease	Fairwater	2.95	1087	F. Munch	Waldo	3.40
982	D. Noris	Fairwater	3.25	1088	P. Getrick	Waldo	3.10
983	J. W. Lyon	Fairwater	3.40	1089	Mrs. L. Walter	Waldo	3.30
984	G. R. Williams	Fairwater	3.50	1090	A. Almon	Waldo	3.20
985	G. Lyons	Fairwater	3.20	1091	L. Holbrook	Waldo	3.40
986	M. Pedrick	Fairwater	3.50	1092	Moore, Case & C.	Beloit	2.40
987	A. Dane	Fairwater	3.00	1093	James Porter	Milwaukee	3.90
989	J. Euehel	Fairwater	3.20	1096	J. Jakes	Milwaukee	4.10
990	H. Whitmore	Fairwater	3.60	1097	J. A. Smith	Milwaukee	2.70
1023	E. Wrightman	Weyauwega	3.50	1098	Wm. Dooly	Milwaukee	2.40
1024	W. W. Craue	Weyauwega	3.10	1099	M. Kierans	Milwaukee	2.70
1025	L. Long	Weyauwega	3.20	1100	M. P. Edwards	Milwaukee	3.00
1026	F. Masters	Weyauwega	2.80	1101	H. Wenzel	Milwaukee	3.70
1027	F. Glock	Weyauwega	3.40	1102	J. E. Lane & Co.	Milwaukee	2.40
1028	F. Shoenick	Weyauwega	3.60	1103	Corcoran Bros.	Milwaukee	2.45
1029	A. Smith	Weyauwega	4.00	1104	John Saveland	Milwaukee	1.20
1030	J. M. Crocker	Weyauwega	3.50	1105	P. Hazrah	Milwaukee	3.20
1031	F. Munsch	Weyauwega	3.40	1106	T. H. Hellmich	Milwaukee	2.22
1032	A. S. Brown	Weyauwega	4.20	1107	A. T. Heisen	Milwaukee	3.10
1033	A. Holmes	Weyauwega	3.00	1108	M. Berg	Milwaukee	2.40
1034	J. Marqudt	Weyauwega	3.20	1109	D. C. Adams	Milwaukee	1.60
1035	J. Baxter	Weyauwega	3.80	1110	F. Wittgenhoff	Milwaukee	3.00
1036	J. C. Alden	Weyauwega	3.30	1111	F. V. Collins	Milwaukee	2.50
1037	M. E. Lewis	Weyauwega	3.30	1112	H. S. Kast	Milwaukee	1.70
1038	A. Bark	Weyauwega	3.60	1113	D. Schenick	Milwaukee	2.80
1040	F. Talbee	Fairwater	3.00	1114	Fred Kappelke	Milwaukee	3.40
1041	C. Riemer	Fairwater	3.30	1115	W. F. Tream- ming	Milwaukee	3.20
1042	G. R. Williams	Fairwater	3.20	1116	G. Wolff	Milwaukee	3.40
1043	W. Pedrick	Fairwater	3.30	1117	Mrs. M. Ua- glaub	Milwaukee	3.80
1044	G. Stetler	Fairwater	3.00	1118	Autone Deaves	Milwaukee	2.80
1045	E. Ackley	Fairwater	3.00	1119	Adolph Gruethner	Milwaukee	2.80
1046	C. Cease	Fairwater	3.00	1120	J. Karth	Milwaukee	2.90
1047	H. Johnson	Fairwater	3.10	1121	Frank Riddle	Milwaukee	3.20
1048	Aug Taas	Fairwater	3.70	1122	Henry Reh feldt	Milwaukee	2.60
1049	J. W. Lyon	Fairwater	3.50	1123	G. Matthews	Milwaukee	2.60
1050	J. Pitzlin	Fairwater	3.40	1124	H. C. Taske	Milwaukee	2.00
1051	J. Eucure	Fairwater	2.00	1125	H. J. Brummer	Milwaukee	2.90
1052	W. Blank	Fairwater	3.20	1126	L. Vacker	Milwaukee	2.80
1053	A. Dane	Fairwater	3.20	1127	L. Stemper	Milwaukee	2.80
1054	Lyle Dittz	Eldorado	3.20	1128	B. Saerup	Milwaukee	3.60
1055	Robt. Miller	Eldorado	3.20	1129	W. Wachholz	Milwaukee	2.60
1057	David Thomp- son	Eldorado	3.40				
1058	Fred Smith	Eldorado	3.10				
1059	Aug. Heimle	Eldorado	3.40				
1060	M. Ducey	Eldorado	2.40				
1061	K. Dittz	Eldorado	3.10				
1062	A. White	Eldorado	3.30				
1063	Nolan Bros	Eldorado	2.90				
1064	Mrs. J. Fredrick	Eldorado	3.40				

## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
1130	H. Randon	Milwaukee	3.00	1155	W. F. Stelloh	Milwaukee	2.00
1131	John Mayers	Milwaukee	2.00	1196	F. Finges & Son	Milwaukee	2.00
1132	John Brum- mer	Milwaukee	3.10	1197	W. McBowen	Milwaukee	3.00
1133	J. Studeman	Milwaukee	2.90	1198	Danville Bros.	Milwaukee	3.60
1134	F. Volmer	Milwaukee	3.20	1199	J. O'Hara	Milwaukee	4.30
1135	Martin Vol- neck	Milwaukee	2.80	1200	M. Kreuges	Milwaukee	3.20
1136	D. Johnson	Milwaukee	3.30	1201	E. Eckel	Milwaukee	3.20
1137	F. Hansler	Milwaukee	2.80	1202	H. Wit	Milwaukee	2.30
1138	C. Abert	Milwaukee	2.60	1203	G. Banck	Milwaukee	3.00
1139	N. B. White	Milwaukee	4.50	1204	A. Engelhardt	Milwaukee	3.60
1140	Fred Schnet- vegen	Milwaukee	3.40	1205	A. Engelhardt	Milwaukee	4.40
1141	John Merrick	Milwaukee	3.30	1206	A. Schwitzes	Milwaukee	3.30
1142	J. Brucker	Milwaukee	3.41	1207	H. Dettman	Milwaukee	4.60
1143	Albert Ziebel	Milwaukee	2.70	1208	Fred Neapow	Milwaukee	3.60
1144	H. Meyer	Milwaukee	2.40	1209	H. Lassekae	Milwaukee	5.40
1145	H. Didier	Milwaukee	1.80	1210	Bruno Fisher	Milwaukee	3.00
1146	Mar. Buckner	Milwaukee	3.60	1211	Geo. Greitnes	Milwaukee	3.40
1147	Fred Meyer	Milwaukee	2.70	1212	C. Hopeman	Milwaukee	2.80
1148	Philip Wein- erst	Milwaukee	3.80	1213	Michael Daniel	Milwaukee	4.00
1149	John Fisher	Milwaukee	2.50	1214	A. Milbroth	Milwaukee	4.20
1150	C. Krause	Milwaukee	2.80	1215	J. Decksteil	Milwaukee	2.60
1151	Fred Laabs	Milwaukee	3.60	1216	H. Werman	Milwaukee	3.90
1152	A. W. Goss	Milwaukee	4.70	1217	J. Livingston	Milwaukee	3.10
1153	John Schock neck	Milwaukee	3.40	1218	Ernst Meineck	Milwaukee	3.50
1154	Waukesha Milk Co.	Milwaukee	2.20	1219	Wm. Kaul	Milwaukee	3.10
1155	Mary Timlin	Milwaukee	2.40	1220	Wm. Felken- hauer	Milwaukee	3.60
1156	— Hutchinson	Milwaukee	3.60	1221	Thos. Finegan	Milwaukee	3.50
1157	Mrs. M. Cahill	Milwaukee	2.20	1222	Chas. Dapke	Milwaukee	3.90
1158	J. Leach	Milwaukee	6.00	1223	Carl Doberke	Milwaukee	2.60
1159	J. Leach	Milwaukee	4.00	1224	Waukesha Milk Co.	Milwaukee	2.70
1160	Mrs. C. Goetz	Milwaukee	5.60	1225	A. Finge	Milwaukee	2.60
1161	J. C. Read	Milwaukee	2.50	1226	L. V. Giedly	Milwaukee	3.10
1162	J. J. Oswald	Milwaukee	9.60	1227	A. Bruins	West Alta	3.90
1163	D. Kane	Milwaukee	3.70	1228	H. Bruins	West Alta	2.80
1164	Mrs. L. Palme- — Hutchinson	Milwaukee	3.80	1229	H. Bruins	West Alta	3.80
1165	Carl Reise	Milwaukee	5.00	1230	D. Swart	West Alta	3.90
1166	S. W. Elliott	Milwaukee	2.80	1231	D. Castien	West Alta	3.40
1167	F. Schroeder	Milwaukee	4.20	1232	H. Hartgrink	West Alta	4.00
1168	Hoffman Bros.	Milwaukee	3.90	1233	— Conrad	West Alta	3.10
1170	A. Schunck	Milwaukee	1.60	1234	Wood Bros	West Alta	3.10
1171	P. W. W. W. W.	Milwaukee	2.70	1235	J. Rensick	West Alta	4.40
1172	John Gilland	Milwaukee	3.30	1236	J. Rensick	West Alta	3.90
1173	L. Barnes	Milwaukee	2.90	1237	J. W. Gliwen	West Alta	3.50
1174	A. Reese	Milwaukee	2.10	1238	J. W. Gliwen	West Alta	4.00
1175	O. G. Thompson	Milwaukee	2.00	1239	C. M. Ellis	West Alta	3.10
1176	Adolph Barth	Milwaukee	2.00	1240	C. M. Ellis	West Alta	4.40
1177	Otto Wirta	Milwaukee	3.00	1241	H. Vanderberg	West Alta	3.10
1178	Gebhardt Bros	Milwaukee	2.10	1242	H. Vanderberg	West Alta	3.40
1179	David Butcher	Milwaukee	3.80	1243	— Whitmore	West Alta	4.00
1180	D. Wrench	Milwaukee	2.30	1244	— Whitmore	West Alta	3.00
1181	A. Weithoff	Milwaukee	3.10	1245	J. Hartgrink	West Alta	2.60
1182	J. C. Stuth	Milwaukee	3.30	1246	J. Hartgrink	West Alta	4.20
1183	A. Nolte	Milwaukee	2.50	1247	M. Vander- welds	West Alta	4.00
1184	A. S. Johnson	Milwaukee	2.70	1248	M. Vander- welds	West Alta	2.10
1185	McDonald	Milwaukee	4.00	1249	w. Leminess	West Alta	3.40
1186	A. G. Davis	Milwaukee	3.40	1250	H. Vendall	West Alta	3.70
1187	W. P. Walmer	Milwaukee	2.10	1251	H. J. Bruins	West Alta	3.40
1188	J. Braun	Milwaukee	2.20	1252	— Landall	West Alta	3.90
1189	Thomas O'Hara	Milwaukee	3.60	1253	J. Lacken	Brandon	3.20
1190	O. W. Paine	Milwaukee	3.20	1254	D. Hillman	Brandon	2.60
1191	A. Kepsel	Milwaukee	3.50	1255	W. House	Brandon	3.70
1192	Splintnes Bros.	Milwaukee	3.20	1256	D. Jones	Brandon	4.20
1193	F. W. Abbott	Milwaukee	4.00	1257	D. Jones	Brandon	3.00
1.94	H. Wegner	Milwaukee	3.80	1258	D. Narris	Brandon	3.50
				1259	D. Narris	Brandon	3.30
				1260	F. Jones	Brandon	3.50
				1261	J. Ramers	Brandon	2.60
				1262	W. Youger	Brandon	4.43

## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	La. No.	From whom taken.	Address.	Butter Fat.
1263	W. Younger	Brandon	2.60	1335	C. Canfield	Auroraville	3.60
1264	A. Kuhn	Brandon	3.90	1336	C. Canfield	Auroraville	4.20
1265	A. Kuhn	Brandon	2.90	1337	John Evans	Auroraville	3.60
1266	Geo. Lingen- feller	Brandon	3.10	1338	John Evans	Auroraville	5.20
1267	M. Kempink	Brandon	4.00	1339	D. W. Cate	Auroraville	3.40
1268	M. Kemmick	Brandon	2.80	1340	D. W. Cate	Auroraville	3.40
1269	H. Kemmick	Brandon	3.50	1341	W. Cary	Auroraville	3.90
1270	A. Smith	Brandon	2.70	1342	T. Bronsdon	Auroraville	3.40
1271	A. Taoc	Brandon	3.40	1343	T. Bronsdon	Auroraville	4.00
1272	G. R. Williams	Brandon	4.00	1344	A. Kittenges	Auroraville	4.20
1273	G. R. Williams	Brandon	3.50	1345	F. Mitchell	Auroraville	4.50
1274	J. Wilhaue	Brandon	4.60	1346	F. Mitchell	Auroraville	4.00
1275	J. Wilhaue	Brandon	3.50	1347	Jerry Williams	Auroraville	3.00
1276	W. Ingles	Brandon	3.90	1348	Jerry Williams	Auroraville	2.20
1277	C. Smith	Brandon	3.60	1349	F. Culver	Auroraville	3.60
1278	W. Ferahaue	Brandon	3.40	1350	F. Culver	Auroraville	4.10
1279	F. Brndt	Brandon	3.60	1351	H. Adams	Auroraville	3.50
1280	F. Brandt	Brandon	2.60	1352	Frank Bradley	Auroraville	4.00
1281	W. Hess	Brandon	3.40	1353	Frank Bradley	Auroraville	4.60
1282	Miles Smith	Brandon	3.60	1354	Ed Walker	Auroraville	3.20
1283	D. Fenahaue	Brandon	3.30	1355	Ed Walker	Auroraville	4.20
1284	Andrew Smith	Brandon	4.10	1356	Blanchard	Auroraville	3.50
1285	A. Starberd	Brandon	3.30	1357	R. Blanchard	Auroraville	3.00
1286	M. Yerik	Brandon	3.40	1358	Wm. McElroy	Auroraville	4.00
1287	Chas. Allen	Brandon	3.60	1359	Thos. Jones	Auroraville	3.20
1288	Geo. Berkmes	Brandon	2.70	1360	Thos. Jones	Auroraville	3.20
1289	J. Schouten	Brandon	3.20	1361	Thos. Jones	Auroraville	3.80
1290	A. Rube	Brandon	3.20	1362	Jos Mathews	Auroraville	3.60
1291	T. Ivers	Brandon	3.30	1363	Jos Mathews	Auroraville	3.20
1292	A. D. Hazen	Brandon	4.00	1364	Geo. Cate	Auroraville	3.60
1293	A. D. Hazen	Brandon	3.40	1365	Geo. Cate	Auroraville	3.20
1294	Geo Knapp	Brandon	3.70	1366	Martin Gregos	Auroraville	4.10
1296	W. Vades	Brandon	3.20	1367	Martin Gregos	Auroraville	3.60
1297	G. Steiter	Brandon	3.10	1368	John Rodgers	Hamilton	.....
1298	F. Krause	Brandon	3.50	1369	Thos. Finerty	Hamilton	.....
1299	F. Krause	Brandon	2.00	1370	Thos Finerty	Hamilton	.....
1300	A. Brack	Brandon	4.00	1371	Pat. Connell	Hamilton	.....
1301	A. Brack	Brandon	3.00	1372	Pat. Connell	Hamilton	.....
1302	J. Harrington	Auroraville	3.00	1373	T. Jones	Hamilton	.....
1303	J. Harrington	Auroraville	3.40	1374	John Nigbo	Hamilton	.....
1304	W. J. Hall	Auroraville	3.60	1375	M. Rivers	Hamilton	.....
1305	W. J. Hall	Auroraville	3.00	1376	M. Rivers	Hamilton	.....
1306	Pat Dobbins	Auroraville	3.80	1377	E. Raymond	Hamilton	.....
1307	Pat Dobbins	Auroraville	4.20	1378	E. Raymond	Hamilton	.....
1308	W. H. Welts	Auroraville	2.10	1379	St. Dennis	Hamilton	.....
1309	Aug. Rodeaall	Auroraville	3.60	1380	M. Bronson	Hamilton	.....
1310	Aug. Rodencal	Auroraville	3.00	1381	M. Bronson	Hamilton	.....
1311	M. E. Allen	Auroraville	3.40	1382	Thorn Hall	Hamilton	.....
1312	M. E. Allen	Auroraville	3.60	1383	Thorn Hall	Hamilton	.....
1313	L. M. Allen	Auroraville	3.40	1384	F. Rivers	Hamilton	.....
1314	M. E-terbrook	Auroraville	3.40	1385	Bort. McKinzie	Hamilton	.....
1315	M. Esterbrook	Auroraville	4.20	1386	John Binges	Hamilton	.....
1316	Mrs. A. Clark	Auroraville	3.20	1387	Sam. Durpee	Hamilton	.....
1317	Mrs. A. Clark	Auroraville	3.40	1388	Sam. Durpee	Hamilton	.....
1318	F. Clark	Auroraville	3.60	1389	Mose Ganzo	Hamilton	.....
1319	N. Hodge	Auroraville	3.40	1390	John Viuitt	Hamilton	.....
1320	N. Hodge	Auroraville	3.80	1391	John Viuitt	Hamilton	.....
1321	C.A. Davenport	Auroraville	3.40	1392	H. Jordan	Hamilton	.....
1322	C.A. Davenport	Auroraville	3.80	1393	H. Jordan	Hamilton	.....
1323	D. W. Scoville	Auroraville	4.40	1394	John Jordan	Hamilton	.....
1324	D. W. Scoville	Auroraville	3.60	1395	W. Waltres	Hamilton	.....
1325	M. C. Clark	Auroraville	3.80	1396	W. Warth	Hamilton	.....
1326	M. C. Clark	Auroraville	3.00	1397	W. Warth	Hamilton	.....
1327	M. H. Bowen	Auroraville	3.60	1398	E. Barnard	Hamilton	.....
1328	M. H. Bowen	Auroraville	3.20	1399	L. Coville	Hamilton	.....
1329	Robt. Mitchell	Auroraville	3.20	1400	L. Coville	Hamilton	.....
1330	Robt. Mitchell	Auroraville	4.20	1401	James Dicks	Hamilton	.....
1331	Even Jones	Auroraville	4.20	1402	James Dicks	Hamilton	.....
1332	Even Jones	Auroraville	3.40	1403	James Mctchel	Hamilton	.....
1333	A. Beaman	Auroraville	3.40	1404	James Mctchel	Hamilton	.....
1334	A. Beaman	Auroraville	4.00	1405	M. Eagan	Hamilton	.....



## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
1406	M. Eagan	Hamilton		1476	Peter Kreoger	Seneca	3.60
1407	John Miller	Hamilton		1477	Chas. Kreoger	Seneca	3.80
1408	John Miller	Hamilton		1478	L. Schroeder	Seneca	3.20
1409	J. Spritska	Hamilton		1479	F. Mustock	Seneca	3.20
1410	J. Danask			1480	Fred Sehr	Seneca	3.80
1411	S. Putman			1481	Ferd. Boeder	Seneca	3.00
1412	S. Putman	Hamilton		1482	F. rd. Mari n.	Seneca	2.80
1413	Wm. Duke	Hamilton		1483	Mike Glynn	Seneca	3.20
1414	Dennis Gabian	Hamilton		1484	Chas. Able	Seneca	3.00
1415	John Drows	Hamilton		1485	Lewis Sehr	Seneca	2.80
1416	John Wolf	Hamilton		1486	Fred Miller	Seneca	3.40
1417	Au-tia McCue	Hamilton		1487	Jim Strainski	Seneca	3.00
1418	A. Raymond	Hamilton		1488	Jos. Shenner	Seneca	3.40
1419	A. Raymond	Hamilton		1489	J. Disterhopt	Seneca	3.20
1420	W. Wilson	Hamilton		1490	L. Staholski	Seneca	4.40
1421	G. Bellington	Hamilton		1491	Jos. Brooks	Seneca	2.80
1422	J. G. Mattice	Hamilton		1492	Jos. Brooks	Seneca	3.00
1423	J. H. Mattice	Hamilton		1493	M. Adler	Taycheedah	
1424	B. Heuld	Hamilton		1494	H. Wall-miette	Taycheedah	
1425	F. Wahles	Fond du Lac		1495	Barney Mack	Taycheedah	
1426	Wm. Brennan	Fond du Lac		1496	John Cody	Taycheedah	
1427	Wm. Brennan	Fond du Lac		1497	E. Mack	Taycheedah	
1428	John Baltha zer Sr	Fond du Lac		1498	H. Banning	Taycheedah	
1429	Chas. Hall	Fond du Lac		1499	Geo. Heene	Taycheedah	
1430	Chas. Babey	Fond du Lac		1500	Fred Lampert	Taycheedah	
1431	Henry Young	Fond du Lac		1501	M. Reilly	Taycheedah	
1432	John Baltha zer Jr	Fond du Lac		1502	Peter Able	Taycheedah	
1433	C. Westral	Fond du Lac		1503	Eva Cramer	Taycheedah	
1434	John Mensch	Fond du Lac		1504	Fred Cramer	Taycheedah	
1435	Mrs. Conabag	Fond du Lac		1505	M. Fitzgerald	Taycheedah	
1436	John Cain	Fond du Lac		1506	Wm. Yancey	Taycheedah	
1437	John Cain	Fond du Lac		1507	John McCullen	Taycheedah	
1438	Pat. Quinlan	Fond du Lac		1508	C. Heene	Taycheedah	
1439	Wm. Smith	Fond du Lac		1509	Geo. McCullen	Taycheedah	
1440	Wm. McLeag	Fond du Lac		1510	C. L alas	Taycheedah	
1441	F. Nitschke	Fond du Lac		1511	John Cramer	Taycheedah	
1442	Wm. Able	Fond du Lac		1512	A. Stephens	Taycheedah	
1443	M. Connaughty	Fond du Lac		1513	L. Vendon	Taycheedah	
1444	H. Gramard	Fond du Lac		1514	James Deffey	Peebles	
1445	Aug. Staunlow	Fond du Lac		1515	John Hilt	Peebles	
1446	Aug. Kemnitz	Fond du Lac		1516	Dan O'Rourke	Peebles	
1447	J. W. Sizs	Fond du Lac		1517	Henry Hilt	Peebles	
1448	A. Goyett	Fond du Lac		1518	Nazre Dam	Peebles	
1449	Jos Goyett	Fond du Lac		1519	Mat. Emory	Peebles	
1450	Wm. Nitschke	Fond du Lac		1520	Jos. Emory	Peebles	
1451	Wm. Schimgen	Fond du Lac		1521	John Mullen	Peebles	
1452	H. Kemnitz	Fond du Lac		1522	A. Thyl	Peebles	
1453	F. M. McKinney	Fond du Lac		1523	A. Thyl	Peebles	
1454	F. M. McKinney	Fond du Lac		1524	San. Peebles	Peebles	
1455	W. R. Thomas	Fond du Lac		1525	Pat. Spetsey	Peebles	
1456	Delas Clark	Fond du Lac		1526	J. hn Alin	Peebles	
1457	Aug. Pasorski	Fond du Lac		1527	Chas. Dager	Peebles	
1458	J. Peterson	Fond du Lac		1528	John Logan	Peebles	
1459	Mrs. N. Jones	Fond du Lac		1529	A. Beckiney	Peebles	
1460	J. H. Thomas	Fond du Lac		1530	M's J. N. Brown	Peebles	
1461	E. Davi	Fond du Lac		1531	H. Erkin	Peebles	
1462	H. Schronick	Fond du Lac		1532	J. Snides	Peebles	
1463	M. Hoes	Fond du Lac		1533	J. Kerchenstein	Peebles	
1464	Mrs. M. Peters	Fond du Lac		1534	Pat. McCullen	Peebles	
1465	H. W. Thomas	Fond du Lac		1535	John Brown	Peebles	
1466	Jim O'Brien	Fond du Lac		1536	Prter Koenig	Peebles	
1467	I. Van Hanton	Fond du Lac		1537	D. W. Safford	Peebles	
1468	A. Parsons	Fond du Lac		1538	W. Vercemen'n	Peebles	
1469	John Parsons	Fond du Lac		1539	H. Yancey	Peebles	
1470	Jack Hart	Fond du Lac		1540	H. Shafer	Peebles	
1471	Chas. Rodence	Fond du Lac		1541	J. Landoff	Peebles	
1472	M. Kilien	Fond du Lac		1542	Jake Snauer & Moore	Peebles	
1473	H. Bahr	Fond du Lac		1543	Antone Hoppe	Seneca, No. 2	4.20
1474	J. Schroeder	Seneca	3.60	1544	Andrew Hoppe	Seneca, No. 2	3.90
1475	Daniel Evoit	Seneca	3.00	1545	Julius Lehauum	Seneca, No. 2	4.90
				1546	Jo Brooks	Seneca, N.	3.00

## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	But. ter Fat.	Lab. No.	From whom taken.	Address.	But. ter Fat.
1548	Jo Brooks...	Seneca, M...	4.00	1616	A. Kummrow.	Summit Cen'r	3.50
1549	M. Kelley....	Seneca, No. 2	3.40	1617	John McDonaid	Summit Cen'r	3.70
1550	L. Doyle....	Seneca, No. 2	4.40				4.20
1551	Antone Bates..	Seneca, No. 2	3.80	1618	Chas. Klingler	Summit Cen'r	3.00
1552	Jo Schermer..	Seneca, No. 2	4.60				2.20
1553	W. Marhspeke	Seneca, No. 2	4.80	1619	D. Schlender..	Summit Cen'r	4.50
1554	Fred Miller, N	Seneca, No. 2	3.70				2.60
1555	Fred Miller, M	Seneca, No. 2	4.00	1620	A. Eastman....	Summit Cen'r	5.20
1556	T. Mariom....	Seneca, No. 2	4.40				3.50
1557	J. Strolinski..	Seneca, No. 2	3.20	1621	W. N. Krumrow	Summit Cen'r	4.10
1558	J. Wri-n-as	Seneca, No. 2	3.40				3.50
1559	Henry Moor...	Seneca, No. 2	4.00	1622	Franz Franke.	Summit Cen'r	3.60
1560	John Machuski	Seneca, No. 2	3.70	1623	T. Brakfield..	Summit Cen'r	3.90
1561	Lewis Lehr...	Seneca, N...	3.70				3.50
1562	Lewis Lehr...	Seneca, M...	4.70	1624	Louis Johnson	Summit Cen'r	3.60
1563	F. Dandy....	Seneca, No. 2	3.60				3.20
1564	Aug Tischinski	Seneca, No. 2	4.10	1625	Jacob Regula.	Summit Cen'r	4.40
1565	Aug Tischuski	Seneca, No. 2	4.40				3.70
1566	Martin Hoolv..	Seneca, No. 2	4.00	1626	Isaac Denton..	Summit Cen'r	3.70
1567	L. Stadholski..	Seneca, No. 2	4.80				3.70
1568	Jake Chues...	Seneca, No. 2	3.20	1627	O. B. Chubb...	Summit Cen'r	4.40
1569	Antone Chies..	Seneca, No. 2	3.40				3.40
1570	John Disleshaf	Seneca, N...	3.60	1628	Dipple & Brown	Summit Cen'r	3.90
1571	John Diseshaf	Seneca, M...	3.50	1629	Walter Stone.	Summit Cen'r	3.80
1572	Chas. Able....	Seneca, N...	3.50				3.60
1573	Chas. Able....	Seneca, M...	3.80	1630	E. S. Stone....	Summit Cen'r	4.00
1574	J. Wn Wapshan	Seneca, No. 2	4.40				4.70
1575	John Zicki....	Seneca, No. 2	4.00	1631	P. Hendrickson	Summit Cen'r	4.00
1576	Nick Seiman..	Seneca, No. 2	4.20				3.80
1577	Fred Leps....	Seneca, No. 2	3.60	1632	C. H. Jackson	Summit Cen'r	4.20
1578	Frank Marstah	Seneca, No. 2	3.60	1633	Louis Johnson	Summit Cen'r	3.60
1579	M. Glynn....	Seneca, No. 2	3.70	1634	Chas. Bailey..	Summit Cen'r	3.50
1580	John Lainske.	Seneca, No. 2	3.60	1635	Louis Jacobs..	Summit Cen'r	4.00
1581	C. Schroeder..	Seneca, No. 2	4.00	1636	W. A. Jones....	Summit Cen'r	4.80
1582	John Schroeder	Seneca, No. 2	4.00	1637	A. Gibson....	Summit Cen'r	5.10
1583	Peter Kroeger.	Seneca, No. 2	4.20				4.20
1584	L. Able....	Seneca, No. 2	3.60	1638	Joseph Clasen	Summit Cen'r	3.30
1585	L. Kalpin....	Seneca, No. 2	3.90	1639	Joseph Gra ham	Summit Cen'r	4.10
1586	Kuschemeski.	Seneca, No. 2	3.00				4.30
1587	L. Schroeder..	Seneca, No. 2	4.00	1640	Lloyd Breck..	Summit Cen'r	4.10
1588	Owens E. an..	Seneca, No. 2	3.60	1641	G. McDonald..	Summit Cen'r	4.10
1589	W. Middleton..	Seneca, No. 2	4.00	1642	F. Fagen....	Manitowoc....	4.50
1590	Peter Hunt...	Seneca, No. 2	3.60	1643	Nick Meyer...	Manitowoc....	5.70
1591	Thom. Marks..	Seneca, No. 2	3.90	1644	G. Oestrich...	Manitowoc....	5.80
1592	F. Belgrien...	Iron Ridge ..	3.40	1645	Heury Meyer..	Manitowoc....	4.00
1593	Wm. Bunte...	Iron Ridge ..	3.20	1646	Edward Ahlswede	Manitowoc....	4.00
1594	A. Schuts....	Iron Ridge ..	3.50	1647	John Litterman	Manitowoc....	3.30
1595	F. rd. Miller	Iron Ridge ..	3.50	1648	Chas. Anhalt	Manitowoc....	3.70
1596	Wm. Duetschman	Iron Ridge ..	3.70	1649	Mrs. Ed. Korten	Manitowoc....	3.00
1597	J. Belgrien...	Iron Ridge ..	3.80	1650	Albert Krumdick	Manitowoc....	3.70
1598	Wm. Miller...	Iron Ridge ..	3.50				3.20
1599	Wm. Barder...	Iron Ridge ..	3.20	1651	F. Specht....	Manitowoc....	3.20
1600	C. Ronda....	Iron Ridge ..	3.60	1652	Mrs. F. Umer	Manitowoc....	4.30
1601	Mrs. Caroline Owens	Iron Ridge ..	4.10	1653	Edward Klozmski	Manitowoc....	4.00
1602	C. Gratsch...	Iron Ridge ..	4.10	1654	Thomas Meyer	Manitowoc....	4.30
1603	F. Lenk....	Iron Ridge ..	3.60	1655	Aug. Piells...	Manitowoc....	2.40
1604	W. Wiggert...	Iron Ridge ..	3.30	1656	F. Handrath..	Manitowoc....	4.80
1605	F. Buss....	Iron Ridge ..	3.40	1657	W. Moos....	Manitowoc....	3.30
1606	C. Bantz....	Iron Ridge ..	4.10	1658	A. Stancel...	Manitowoc....	3.50
1607	C. Eck....	Iron Ridge ..	3.00	1659	Henry Rump..	Manitowoc....	3.10
1608	H. Miller...	Iron Ridge ..	4.30	1660	L. Forst-ed	Manitowoc....	3.70
1609	Frank Krecow	Iron Ridge ..	3.10	1661	G. Schmidtmann	Manitowoc....	2.70
1610	H. Reinke....	Iron Ridge ..	3.70	1662	Christian Kiel	Manitowoc....	3.30
1611	Wm. Schultz..	Iron Ridge ..	3.20	1663	Jacob Emmert.	Manitowoc....	3.60
1612	Wm. Salle....	Iron Ridge ..	3.70	1664	Fred Neuhans	Manitowoc....	3.60
1613	Fred Green...	Summit Cen'r	3.70	1665	Jacob Hassel	Manitowoc....	3.70
1614	Edwin Hill...	Summit Cen'r	3.60	1666	Chas. Ahlswede	Manitowoc....	3.90
1615	Butler & Wyman	Summit Cen'r	3.60	1667	Wm Hampske	Manitowoc....	3.10
		Summit Cen'r	3.10	1668	Thom. Mohr...	Manitowoc....	3.30
				1669	M. Sedal....	Manitowoc....	3.30

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	But-ter Fat.	Lab. No.	From whom taken.	Address.	Eut-ter Fat.
1670	Peter Johnson.	Manitowoc.	3.90	1742	J. Bodden.	Shebyg'n Falls	3.70
1671	Geo. Sur, Jr.	Manitowoc.		1743	A. Midweds.	Shebyg'n Falls	4.00
1672	Simon Kiet.	Manitowoc.		1744	A. Kenrink.	Shebyg'n Falls	3.60
1673	Geo. Surr, Sr.	Manitowoc.		1745	P. Dyk.	Shebyg'n Falls	3.60
1674	Benson Surr.	Manitowoc.		1746	M. Meley.	Shebyg'n Falls	4.40
1675	Frank.	Manitowoc.		1747	P. Vend-r.	Shebyg'n Falls	4.20
1676	Frank Liedel.	Manitowoc.		1748	J. Prinden.	Shebyg'n Falls	3.60
1677	H. Anthalte.	Manitowoc.		1749	C. Pern.	Shebyg'n Falls	3.70
1678	Herman Witte.	Manitowoc.		17 0	H. Pahl.	Shebyg'n Falls	3.80
1679	Antone Stubbs.	Manitowoc.		1751	W. Pelers.	Fremont.	3.40
1680	Chas. Gruber.	Manitowoc.		1752	W. Platz.	Fremont.	3.70
1681	Antone Gruber.	Manitowoc.		1753	F. Wolf.	Fremont.	3.80
1682	Peter Karben.	Manitowoc.		1754	F. Poratz.	Fremont.	4.00
1683	John Kreegk.	Manitowoc.		1755	C. Use-ke.	Fremont.	3.40
1684	G. Kloszowski.	Manitowoc.		1756	J. Warnke.	Fremont.	3.30
1685	Joseph Cisler.	Manitowoc.		1757	W. Wickboldt.	Fremont.	3.40
1686	Mike Staubes.	Manitowoc.		1758	W. Brasenmas-ter.	Fremont.	3.00
1687	Mrs. Kate Mc-Carty.	Manitowoc.		1759	W. Martin.	Fremont.	3.40
1688	J. Steinbaker.	Manitowoc.		1760	D. Frukes.	Fremont.	3.30
1689	J. Stransty.			1761	Peter M-yers.	Fremont.	3.20
1690	F. Dinkman.	Manitowoc.		1762	W. Luck.	Fremont.	3.10
1691	Chas. Sibert.	Manitowoc.		1763	C. Sanders.	Fremont.	3.30
1692	J. Walhouse.	Manitowoc.		1764	W. Kester.	Fremont.	4.40
1693	Frank Wazek.	Manitowoc.		1765	G. Marquardt.	Fremont.	3.40
1694	J. Jacknithall.	Manitowoc.		1766	C. Breeimer.	Fremont.	4.40
1695	W. Wackholze.	Manitowoc.		1767	W. Schultz.	Medina.	4.80
1696	Aug. Herman.	Manitowoc.		1768	F. Bohart.	Medina.	3.40
1699	Antone Neisen.	Manitowoc.		1769	J. Ployer.	Medina.	3.40
1698	E. Herman.	Manitowoc.		1770	A. Wahl.	Medina.	3.80
1699	Jno. Tr-uber.	Manitowoc.		1771	H. Rupp.	Medina.	3.20
1700	Henry Speck.	Manitowoc.		1772	J. Sutter.	Medina.	3.00
1701	S. Chesmetzen.	Manitowoc.		1773	J. Kock.	Medina.	3.40
1702	J. Scenefels.	Manitowoc.		1774	A. Kroeger.	Medina.	3.00
1703	C. Herman.	Manitowoc.		1775	Aug. Kramer.	Medina.	2.00
1704	Val. Derkman.	Manitowoc.		1776	C. Holmer.	Medina.	4.20
1705	Frank Fetzer.	Manitowoc.		1777	J. Hafherger.	Medina.	3.70
1706	Peter Rank.	Manitowoc.		1778	F. Bohliner.	Medina.	4.00
1707	J. McCarty.	Manitowoc.		1779	R. T. Powell.	Medina.	
1708	Mrs. B. Hatter.	Manitowoc.		1780	F. Vandoren.	Medina.	4.00
1709	John Geatdert.	Manitowoc.		1781	John Abraham.	Medina.	3.40
1710	Mat. Reif.	Manitowoc.		1782	Rapragger.	Medina.	4.00
1711	Frank Kuns.	Manitowoc.		1783	W. L. Knat.	Medina.	4.00
1712	Henry Mull.	Manitowoc.		1784	Fred. Beyer.	Medina.	4.00
1713	Joseph Brown.	Manitowoc.		1785	John Neland.	Medina.	3.40
1714	Mrs. M. Hunt.	Manitowoc.		1786	R. T. Brooks.	Medina.	3.70
1715	John Pironka.	Manitowoc.		1787	Geo. Seipert.	Medina.	3.20
1716	A. Choupek.	Manitowoc.		1788	F. Neir-enberg.	Medina.	3.60
1717	John Stasney.	Manitowoc.		1789	Chas. Knock.	Medina.	4.50
1718	Joseph Tesarik.	Manitowoc.		1790	Mrs. W. Young.	Medina.	4.20
1719	John Tesarik.	Manitowoc.		1791	Andr-w Haas.	Medina.	3.40
1720	C. Hanoran.	Plymouth.	3.30	1792	Fred Balien.	Medina.	3.60
1721	O. W. Tupper.	Plymouth.	3.40	1793	Ole Oeson.	Medina.	3.80
1722	A. N. Jackson.	Plymouth.	3.10	1794	John Ruppel.	Medina.	3.60
1723	A. D. Husoo.	Plymouth.	3.50	1795	J. Leing.	Medina.	3.20
1724	J. D. Curtis.	Plymouth.	3.30	1796	C. Laneinan.	Medina.	4.00
1725	J. Naver.	Plymouth.	3.30	1797	N. Golden.	Waupun.	4.00
1726	C. W. Gates.	Plymouth.	3.60	1798	Bert Gullie.	Waupun.	4.40
1727	Frank Hasmon.	Plymouth.	3.56	1799	John Lee.	Waupun.	3.80
1728	F. Bauler, Jr.	Plymouth.	3.40	1800	Gilbert Galiea.	Waupun.	4.60
1729	H. Bunkhardt.	Plymouth.	3.00	1801	J. Culbertson.	Waupun.	4.80
1730	M. A. Hsasen.	Plymouth.	3.10	1802	Wm. B-liten.	Waupun.	3.80
1731	C. Boedeker.	Plymouth.	3.80	1803	Fred. Knock.	Waupun.	
1732	E. Esty.	Plymouth.	3.00	1804	H. Hill.	Waupun.	
1733	A. D. Bemis.	Plymouth.	3.69	1805	M. Burdoad.	Waupun.	
1734		Plymouth.	3.20	1806	W. C. Deistler.	Waupun.	
1735	H. Claves.	Plymouth.	3.40	1807	Peter Pul-on.	Waupun.	4.00
1736	A. F. Adams.	Plymouth.	3.00	1808	Wm. Hoil.	Waupun.	3.40
1737	W. Wilke.	Plymouth.	3.20	1809	Wm. Holl.	Waupun.	5.40
1738	J. Flick.	Plymouth.	3.40	1810	J. Nitchke.	Waupun.	4.00
1739	J. Huyck.	Shebyg'n Falls	3.20	1811	G. Buencke.	Waupun.	3.20
1740	J. Wilderdink.	Shebyg'n Falls	3.40	1812	E. Savage.	Waupun.	4.00
1741	C. J. Kennedy.	Shebyg'n Falls	3.40	1813	C. Holduiga.	Waupun.	3.40

ANALYSES OF MILK—Continued.

Lab. No.	From whom taken	Address.	Butter fat.	Lab No.	From whom taken.	Address.	Butter fat.
1814	Jos. Clark	Fremont	3.80	1896	G Drones	Muscado	4.00
1815	H. Henderson	Fremont	3.60	1867	T. Randall	Muscado	4.3a
1816	G. H. Smith	Fremont	3.20	1898	— Sailing	Muscado	4.20
1817	S. H. Gruenell	Fremont	4.40	1899	G. Hayes	Muscado	4.20
1818	Willie Smith	Fremont	4.50	1900	— Wrike	Muscado	4.00
1819	J. Schouten	Fremont	4.60	1901	H. Dinsmock	Muscado	3.50
1820	A. Schouten	Fremont	3.80	1902	M. Clensing	Muscado	3.80
1821	J. Sims	Fremont	4.00	1903	J. J. Hinkel	Muscado	3.60
1822	Will Avery	Fremont	4.00	1904	W. Brusso	Muscado	2.60
1823	M. B. Johnson	Fremont	3.60	1905	W. Warnes	Muscado	3.80
1824	J. B. Feinhaus	Fremont	4.50	1906	Miss Carver	Muscado	3.90
1825	J. Geibelok	Fremont	3.80	1907	Mrs. Parrish	Muscado	4.30
1826	A. Broom	Waupau	4.00	1908	C. Schwingel	Muscado	3.50
1827	J. Whrooley	Waupau	2.20	1909	J. Palmbach	Appleton	3.80
1828	Louie Johnson	Waupau	3.60	1910	F. Strutz	Appleton	4.20
1829	G. W. Brown	Waupau	3.60	1911	Wm. Perry	Appleton	3.90
1830	John Sims	Waupau	3.00	1912	Fred Kapping	Appleton	3.70
1831	John Vanorepp	Waupau	3.20	1913	C. Melz	Appleton	3.70
1832	J. F. Hartshorn	Waupau	3.40	1914	J. Caschman	Appleton	3.80
1833	A. H. Carpenter	Waupau	3.40	1915	J. M-lz	Appleton	3.30
1834	H. Prange	Waupau	3.40	1916	J. Shrooles	Appleton	3.50
1835	Mrs. M. Lang	Waupau	3.50	1917	E. Maus	Appleton	3.30
1836	Joe Keenan	Scott	4.60	1918	J. Chiebles	Appleton	4.10
1837	C. Brumell	Scott	4.40	1919	Dan M. Gionis	Appleton	3.90
1838	W. Hagg	Scott	4.00	1920	J. Libbers	Appleton	3.90
1839	C. Nickel	Scott	4.20	1921	J. Patters	Appleton	2.90
1840	John Scheltz	Scott	3.70	1922	J. K.iss	Appleton	3.90
1841	Robt. Stolper	Scott	5.50	1923	C. Bucholz	Appleton	3.00
1842	C. Menkel	Scott	4.90	1924	J. Julius	Appleton	3.40
1843	P. Leibenstien	Scott	4.10	1925	C. Bohn	Appleton	3.70
1844	E. Siel's	Scott	4.60	1926	J. Shafe	Appleton	4.00
1845	C. Becker	Scott	4.20	1927	Chris Snuiz	Appleton	3.80
1846	E. Becker	Scott	4.30	1928	J. Schraets	Appleton	2.80
1847	H. Scheltz	Scott	4.70	1929	Aug. Palmbach	Appleton	3.70
1848	Wm. Hersh	Scott	3.70	1930	Wm. Smita	Appleton	4.10
1849	Auz. Nieman	Belgium	...	1931	Carl Sholton	Appleton	3.40
1850	J. G. Helm	Belgium	...	1932	Chris shotes	Appleton	3.50
1851	A. Frier	Belgium	...	1933	J. Fry	Lodi	4.40
1852	M. J. Knapp	Belgium	...	1934	E. Andrews	Lodi	3.60
1853	N. Bleck	Belgium	...	1935	J. Foot	Lodi	3.30
1854	N. Karthison	Belgium	...	1936	R. Story	Lodi	3.30
1855	J. Windling	Belgium	...	1937	"	Lodi	4.20
1856	J. P. Haminen	Belgium	...	1938	W. Mitchel	Lodi	3.60
1857	N. Thal	Belgium	...	1939	G. F. Kimball	Lodi	2.60
1858	John Grotz	Belgium	...	1940	W. Buchanan	Lodi	3.00
1859	Watts Hammen	Belgium	...	1941	"	Lodi	3.00
1860	Peter May	Belgium	...	1942	P. Smith	Lodi	3.20
1861	John Krick	Belgium	...	1943	"	Lodi	2.60
1862	usan Ganthmer	Belgium	...	1944	"	Lodi	3.60
1863	Beenet Rich	Belgium	...	1945	McQuaid	Lodi	3.60
1864	M. Teusun	Belgium	...	1946	Geo Falkinstin	Lodi	2.10
1865	Peter Ernsler	Belgium	...	1947	"	Lodi	5.00
1866	Jacob Black	Muscado	4.00	1948	F. Strangeway	Lodi	3.00
1867	Geo. Frank	Muscado	3.90	1949	B. Bartholmew	Lodi	3.60
1877	W. Dimsnock	Muscado	3.90	1950	J. Kiddle	Lodi	4.30
1878	J. Gallages	Muscado	3.90	1951	W. Peters	Fremont	4.40
1879	T. Delaney	Muscado	3.90	1952	W. Piatz	Fremont	3.40
1880	C. Higgins	Muscado	3.90	1953	F. Wolf	Fremont	4.40
1881	G. Moosaw	Muscado	4.10	1954	F. Potratz	Fremont	3.40
1882	C. Morey	Muscado	3.90	1955	C. Weeks	Fremont	3.80
1883	J. Krohn	Muscado	4.90	1956	J. Waroke	Fremont	3.60
1884	— Star	Muscado	4.00	1957	W. Wickboit	Fremont	3.30
1885	G. Smith	Muscado	4.10	1958	W. Braem-mastes	Fremont	4.40
1886	K. Dzewarias	Muscado	4.40	1959	W. Martin	Fremont	4.50
1887	ki	Muscado	4.40	1960	D. Frakes	Fremont	4.60
1888	S. Wallbridge	Muscado	4.40	1961	Peter Meyers	Fremont	3.80
1889	T. Kisa	Muscado	4.20	1962	H. Suck	Fremont	4.00
1890	A. Bomgrault	Muscado	3.80	1963	C. Sanders	Fremont	4.00
1891	J. Stade	Muscado	4.80	1964	W. Hestes	Fremont	3.60
1892	J. Horaes	Muscado	3.90	1965	G. Marquardt	Fremont	4.50
1893	C. Gleknecht	Muscado	3.90	1966	W. Shultz	Fremont	3.80
1894	N. Smetzes	Muscado	4.20	1967	C. Bemes	Fremont	3.80
1895	J. Leiges	Muscado	4.00	1968	F. Bohart	Fremont	3.40
					J. Ployer	Fremont	3.40

## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
1969	A. Wohlt.....	Fremont...	3.80	2037	J. W. Roe.....	Weyauwega..	3.60
1970	H. Rupp.....	Fremont.....	3.20	2038	W. A. Wilcox..	Weyauwega..	4.40
1971	J. Suter.....	Fremont.....	3.00	2039	M. E. Lewis...	Weyauwega..	4.40
1972	J. Koch.....	Fremont.....	3.40	2040	Frank Steinhoff	Belmont.....	3.70
1973	A. Krenges...	Fremont.....	3.00	2041	F. A. Kuhn-henn	Belmont.....	3.30
1974	Aug. Krances.	Fremont.....	2.00	2042	C. Legebke.....	Belmont.....	3.50
1975	G. Holmes...	Fremont.....	4.30	2043	W. Hambly....	Belmont.....	3.40
1976	J. Hsferges...	Fremont.....	3.70	2044	Henry Wise....	Belmont.....	3.50
1977	F. Bohimen...	Fremont.....	4.00	2045	B. Gherke.....	Belmont.....	4.30
1978	E. Stevens...	Mindaro.....	3.20	2046	G. Helms.....	Belmont.....	3.30
1979	James Frayn..	Mindaro.....	2.50	2047	John Youst....	Belmont.....	3.30
1980	Isaac Davis..	Mindaro.....	3.40	2048	D. Hatfield..	Belmont.....	3.20
1981	T. Johnson...	Mindaro.....	3.20	2049	Ricks	Belmont.....	3.70
1982	M. Atwater...	Mindaro.....	3.00		Rorolands.....	Belmont.....	3.70
1983	P. Paulson...	Mindaro.....	3.30	2050	J. P. Fenary...	Belmont.....	3.70
1984	J. Glionie...	Mindaro.....	3.40	2051	Charles Fitzsimons	Belmont.....	3.40
1985	J. M. Jones...	Mindaro.....	3.30	2052	Joseph Reiter.	Belmont.....	3.30
1986	Elmer Havens	Mindaro.....	3.40	2053	Henry Engfekey	Belmont.....	3.60
1987	John Lee.....	Mindaro.....	3.00	2054	Ed Place.....	Belmont.....	3.70
1988	John Wilder..	Mindaro.....	3.80	2055	Aug Steinhoff.	Belmont.....	3.80
1989	Farnk Brown..	Mindaro.....	3.30	2056	H. Steinhoff..	Belmont.....	3.99
1990	Anna Staff...	Mindaro.....	3.80	2057	John Donohue.	Belmont.....	3.60
1991	J. Dekarska..	Manitowoc...	2.80	2058	James O'Leary	Belmont.....	3.80
1992	H. Liekerman.	Manitowoc...	3.00	2059	H. Steinhoff, Jr	Belmont.....	3.90
1993	Martin Roehl.	Manitowoc...	3.60	2060	R. Waters, Jr.	Belmont.....	3.50
1994	E. Wilke.....	Manitowoc...	3.80	2061	Thos. Ruskell..	Belmont.....	4.00
1995	G. Beuchel...	Manitowoc...	3.40	2062	John Ruskell..	Belmont.....	4.30
1996	Henry Benslim	Manitowoc...	3.40	2063	Robt. Ruskell..	Belmont.....	3.70
1997	C. Wilaud....	Manitowoc...	2.60	2064	Peter Richards	Belmont.....	3.50
1998	Albert Krause.	Manitowoc...	3.80	2065	Geo. Reiter...	Belmont.....	3.50
1999	S. Illig.....	Manitowoc...	3.20	2066	Chas. Reiter, Jr	Belmont.....	3.60
2000	R. Illig.....	Manitowoc...	4.00	2067	Chas. Reiter, Sr	Belmont.....	3.69
2001	Henry Hertog	Manitowoc...	3.20	2068	W. Freary.....	Belmont.....	4.00
2002	John Richelstopes.	Manitowoc...	4.60	2069	Pat Byrns....	Belmont.....	3.50
2003	Aug Krepsky..	Manitowoc...	3.60	2070	J. Freary.....	Belmont.....	3.60
2004	Henry Beucnel	Manitowoc...	4.00	2071	Henry A-h-ton.	Belmont.....	3.60
2005	S. Erig.....	Manitowoc...	3.80	2072	Frank White...	Belmont.....	3.40
2006	Aug Esmer...	Manitowoc...	3.80	2073	W. Edwards...	Belmont.....	4.00
2007	Aug Geschu...	Manitowoc...	3.40	2074	W. Gratz.....	Belmont.....	3.30
2008	Ernest Trutt-schel	Manitowoc...	3.00	2075	J. Edwards...	Belmont.....	2.20
2009	J. Berges...	Manitowoc...	4.00	2076	James White...	Belmont.....	3.60
2010	Aug Wilke...	Manitowoc...	3.80	2077	W. Ruskell...	Belmont.....	4.40
2011	John Wrage...	Manitowoc...	3.70	2078	Nick Magby...	Belmont.....	3.80
2012	W. Seeparth..	Manitowoc...	3.30	2079	H. DeLoug....	Belmont.....	4.00
2013	Aug Hiac....	Manitowoc...	3.60	2080	Robt. Kinch...	Belmont.....	3.70
2014	Geo. Schmid..	Manitowoc...	3.00	2081	Dan Geages...	Belmont.....	3.30
2015	Aug Illig....	Manitowoc...	3.00	2082	T. Freary.....	Belmont.....	3.70
2016	W. Mittle-sleadt.	Weyauwega..	3.70	2083	T. Simmons...	Belmont.....	4.40
2017	Fred Sholneck	Weyauwega..	4.50	2084	Mrs. H. Hunt-ington	Belmont.....	4.70
2018	Henry Reip...	Weyauwega..	3.70	2085	J. Stocley, Sr.	Belmont.....	3.40
2019	W. Shoemaker	Weyauwega..	3.50	2086	J. Moady, Jr..	Belmont.....	3.60
2020	Carl Behn...	Weyauwega..	3.40	2087	A. J. Vruwinks	Cedar Grove..	3.90
2021	Aug Grentke..	Weyauwega..	4.00	2088	John Dropper.	Cedar Grove..	4.40
2022	Frank Masters	Weyauwega..	3.60	2089	J. E. Bruene..	Cedar Grove..	4.70
2023	H. W. Crane..	Weyauwega..	4.10	2090	G. J. Kimpink.	Cedar Grove..	2.10
2024	Lyman Houard.	Weyauwega..	3.80	2091	G. J. Wynvern	Cedar Grove..	4.30
2025	Fred Glock...	Weyauwega..	3.70	2092	John Myling...	Cedar Grove..	4.30
2026	W. W. Crane..	Weyauwega..	4.10	2093	John Mylink...	Cedar Grove..	4.20
2027	E. Wrightman	Weyauwega..	4.00	2094	G. W. Wynvern	Cedar Grove..	4.39
2028	C. Shenrock..	Weyauwega..	3.10	2095	G. W. Wynvern	Cedar Grove..	3.90
2029	F. M. Chase..	Weyauwega..	4.30	2096	H. Huenink...	Cedar Grove..	4.30
2030	John Mosquidt	Weyauwega..	3.70	2097	J. Hopenan...	Cedar Grove..	4.90
2031	W. Fishes...	Weyauwega..	4.10	2098	J. B. Wynvern	Cedar Grove..	5.20
2032	Chas Walrath	Weyauwega..	4.40	2099	Ben Wynvern.	Cedar Grove..	4.40
2033	Geo. Barker...	Weyauwega..	3.70	2100	Gerest Prinsen	Cedar Grove..	3.60
2034	A. Walrath...	Weyauwega..	3.90	2101	L. Nerniter...	Cedar Grove..	4.10
2035	I. C. Aiden...	Weyauwega..	4.80	2102	C. DeSmith...	Cedar Grove..	3.30
2036	A. Smith.....	Weyauwega..	3.00	2103	W. Prinsen...	Cedar Grove..	4.70

## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
2104	W. Prinsen	Cedar Grove.	4.30	2175	Wilan Ford	Nekimi	4.60
2105	H. Tempas	Cedar Grove.	4.80	2176	Wilan Ford	Nekimi	4.10
2106	G. Prinsen	Cedar Grove.	4.20	2177	J. S. Cook	Burke	4.10
2107	L. Moss	Cedar Grove.	3.70	2178	George Muster	Burke	4.20
2108	L. Moss	Cedar Grove.	4.40	2179	M. Vincent	Burke	5.20
2109	G. J. Lopper	Cedar Grove.	4.00	2180	C. Weisman	Burke	4.30
2110	Peter Zeeveld	Cedar Grove.	4.50	2181	D. E. Doty	Burke	4.30
2111	Peter Zeeveld	Cedar Grove.	3.80	2182	D. Dunn	Burke	3.50
2112	J. Payverdink	Cedar Grove.	4.50	2183	E. Scherning	Burke	2.10
2113	H. W. Zufelt	Cedar Grove.	3.90	2184	Jake Wolf	Burke	4.10
2114	J. W. Heving	Cedar Grove.	4.20	2185	Sam W. If	Burke	3.40
2115	John J. Heine	Belgium	4.90	2186	John Ulmer	Burke	3.70
2116	A. Frier	Belgium	4.00	2187	John McElroy	Burke	3.50
2117	M. J. Knapp	Belgium	4.50	2188	John Grimm	Burke	4.90
2118	Nick Bick	Belgium	4.10	2189	Henry Gillman	Burke	4.30
2119	Nick Karthisas	Belgium	5.30	2190	N. R. Bailey	Burke	4.50
2120	Jas. Wendling	Belgium	4.30	2191	George Sippes	Burke	4.60
2121	J. P. Hammen	Belgium	4.70	2192	J. S. Shadel	Burke	3.90
2122	Nick Tholl	Belgium	4.00	2193	W. E. Bailey	Burke	4.50
2122	John Grazz	Belgium	5.00	2194	— Fisher	Waterloo	3.60
2124	Mat Hammen	Belgium	4.60	2195	Geo. Seiber	Waterloo	4.50
2125	Peter May	Belgium	4.50	2196	Fred Kezler	Waterloo	4.45
2126	John Knick	Belgium	5.20	2197	H. Staker	Waterloo	4.60
2127	Mr. Susan Gauthener	Belgium	3.90	2198	W. Jardon	Waterloo	4.00
			2199	M. Joice	Waterloo	4.10	
2128	Bennett Rich	Belgium	4.00	2200	F. Pribbenon	Waterloo	3.80
2129	M. Teisen	Belgium	3.80	2201	John Sktatzki	Waterloo	4.40
2130	Peter Emster	Belgium	4.00	2202	A. C. Danluss	Waterloo	4.30
2131	Jacob Black	Belgium	4.30	2203	Mrs. P. Purcell	Waterloo	4.20
2132	Griffith Bros.	Racine	4.20	2204	John Hill	Waterloo	4.90
2133	Aug. Williams	Racine	4.40	2205	Aug. Hibbard	Waterloo	3.80
2134	M. P. Hansen	Racine	3.90	2206	Andrew Heck	Waterloo	4.40
2135	Aug. Williams	Racine	4.50	2207	J. White	Waterloo	3.80
2136	M. P. Hansen	Racine	3.60	2208	H. Graham	Waterloo	4.40
2137	Fred Johnson	Racine	3.90	2209	W. John Paul	Waterloo	4.00
2138	Fred Johnson	Racine	3.80	2210	J. Wilt	Waterloo	4.60
2139	Jeal Bros.	Racine	3.90	2211	A. Bartash	Waterloo	4.20
2140	Jeal Bros.	Racine	4.40	2212	— Weakart	Waterloo	4.40
2141	F. Hills	Racine	5.40	2213	C. Doaschdes	Waterloo	4.00
2142	Leonard Bros.	Racine	4.60	2214	F. Skalitzi	Waterloo	3.60
2143	Leonard Bros.	Racine	4.70	2215	C. Leibke	Waterloo	4.60
2144	Lucas Lathrop	Racine	3.50	2216	J. Rord	Waterloo	4.40
2145	Lucas Althrop	Racine	4.00	2217	F. Schultz	Waterloo	5.20
2146	W. A. Crane	Racine	4.30	2218	A. Kreuger	Waterloo	4.30
2147	W. A. Crane	Racine	4.50	2219	L. Deppur	Waterloo	4.20
2148	R. M. Walker	Racine	4.00	2220	— Rutdoff	Waterloo	4.00
2149	G. P. Herchen	Racine	4.80	2221	F. Squarn	Waterloo	4.00
2150	Geo. Mantz	Racine	4.20	2222	C. Meilke	Waterloo	3.40
2151	W. Schultz	Racine	3.60	2223	A. Hohn	Waterloo	4.20
2152	S. Knudston	Racine	4.40	2224	Chas. Jewell	Pine River	4.00
2153	H. Oberg	Belgium	3.00	2225	Jas. C. Jensen	Pine River	3.90
2154	Ben Davis	Belgium	3.50	2226	B. Lears	Pine River	3.60
2155	J. Glassnick	Nekimi	4.60	2227	J. S. Swarsen	Pine River	3.10
2156	W. Lunin	Nekimi	4.20	2228	Hans Jensen	Pine River	4.20
2157	A. O. Wells	Nekimi	3.60	2229	Chas. Lang	Pine River	4.10
2158	Oscar Ghul	Nekimi	4.70	2230	Jas. Swarsen	Pine River	3.80
2159	Jas. Sinn, Jr.	Nekimi	4.80	2231	Ben Barr	Pine River	4.30
2160	C. Haruon	Nekimi	4.80	2232	J. P. Reed	Pine River	4.20
2161	A. Nolte	Nekimi	4.60	2233	Hub Frisby	Pine River	4.10
2162	J. Fitzgerald	Nekimi	3.80	2234	John Evert	Pine River	3.20
2163	John Ross	Nekimi	4.50	2235	Henry Cary	Pine River	5.10
2164	John Ross	Nekimi	4.40	2236	Geo. Stetson	Pine River	...
2165	A. Farr	Nekimi	3.50	2237	Orn Borse	Pine River	...
2166	A. Farr	Nekimi	4.30	2238	C. Kintz	Pine River	...
2167	J. O'Hara	Nekimi	3.80	2239	G. Stromb	Pine River	...
2168	R. Zwickey	Nekimi	4.60	2240	J. Chas	Pine River	...
2169	R. J. Rose	Nekimi	4.60	2241	Jack Haney	Pine River	...
2170	R. J. Rose	Nekimi	3.80	2242	Ellen Barr	Pine River	...
2171	L. D. Nars- traut	Nekimi	4.20	2243	Mel Wood	Pine River	...
			2244	H. P. Nelson	Pine River	...	
2172	Jas. Orr	Nekimi	4.40	2245	Chas. Kimball	Pine River	...
2173	Jas. Orr	Nekimi	2.60	2246	Frank Bixtes	Fox Lake	3.00
2174	D. Stillwell	Nekimi	5.60	2257	Jos. Williams	Fox Lake	4.60

## ANALYSES OF MILK.—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
2258	Geo. Sherwood	Fox Lake....	4.60	2339	S. Hollenback	New Berlin..	4.40
2259	N. Hollendeyke	Eux Lake....	3.80	2340	T. H. Peterson	New Berlin..	5.20
2260	Henry Thomas	Fox Lake....	3.80	2341	S. Piener....	New Berlin..	3.80
2261	J. W. Morris...	Fox Lake....	4.40	2342	G. Hollenback	New Berlin..	3.90
2262	H. Williams...	Fox Lake....	4.80	2343	Antone Saman	New Berlin..	4.40
2263	F. T. Jones....	Fox Lake....	5.20	2344	John Stephens	Waukesha...	3.40
2264	Geo. Gullman...	Fox Lake....	4.40	2345	J. Wolf.....	Waukesha...	3.40
2265	Ellis Jones....	Fox Lake....	4.00	2246	Aug Voss....	Waukesha...	3.50
2266	R. O. Williams	Fox Lake....	5.00	2347	W. Stoppel...	Waukesha...	3.90
2267	Ed Roberts....	Fox Lake....	3.50	2348	Ed Schultz...	Waukesha...	3.50
2268	Morgan Jones.	Fox Lake....	5.10	2349	J. Haneyager	Waukesha...	3.50
2269	Ed Davis....	Fox Lake....	3.80	2350	A. Honeyager	Waukesha...	3.20
2270	Tom Pritchard	Columbus....	4.20	2351	W. Honeyager	Waukesha...	3.40
2271	A. Bachman...	Columbus....	3.10	2352	A. Kuhlman...	Waukesha...	3.50
2272	O. H. Grenner berg.....	Columbus....	3.40	2353	D. Shultis...	Waukesha...	3.50
2273	C. Rupnow....	Columbus....	3.50	2354	F. Shultis...	Waukesha...	3.60
2274	W. Griffith...	Columbus....	3.50	2355	G. W. Weede...	Waukesha...	3.90
2275	E. Griffith...	Columbus....	5.30	2356	A. Grier....	Waukesha...	3.20
2276	O. R. Jones...	Columbus....	2.80	2357	C. D. Gage...	Waukesha...	3.70
2277	D. R. Owens.	Columbus....	3.00	2358	S. Gruzak...	Waukesha...	4.50
2278	J. M. Jones...	New Berlin..	4.30	2359	A. Schumaker	Waukesha...	3.70
2279	Fred Stigler.	New Berlin..	4.00	2360	Aug. Wazner	Waukesha...	3.60
2280	Mike Stigler.	New Berlin..	3.40	2361	Chas. Kutz...	Waukesha...	3.30
2281	John Stigler.	New Berlin..	4.40	2362	J. M. Vickar...	Waukesha...	4.00
2282	Jno. D. Scheets	New Berlin..	3.60	2363	R. J. Warring.	Waukesha...	3.90
2283	S. Schimboucant	New Berlin..	3.80	2364	Geo. Dingleder	Waukesha...	4.50
2284	E. Radlopf...	New Berlin..	4.80	2365	D. Halat....	Waukesha...	4.10
2285	Geo. Michel...	New Berlin..	4.80	2366	E. I. Hitler...	Waukesha...	3.50
2286	Aug Schultz...	New Berlin..	4.70	2367	Wm. Stevens.	Waukesha...	3.60
2287	Adam Michel.	New Berlin..	3.70	2368	J. More.....	Waukesha...	3.60
2288	D. Orought...	New Berlin..	4.00	2369	Mrs. J. Shurley	Waukesha...	3.90
2289	Peter Kern...	New Berlin..	4.70	2370	H. J. Webber.	Waukesha...	3.90
2290	A. Kern.....	New Berlin..	4.40	2371	Wm. Baird...	Waukesha...	4.10
2291	Adam Graiser.	New Berlin..	4.20	2372	L. Ruppicht...	Waukesha...	4.10
2292	Henry Kern...	New Berlin..	4.50	2373	O. W. Halfield	Waukesha...	4.10
5303	J. F. Craiser.	New Berlin..	3.50	2374	M. Stark....	Waukesha...	5.00
2304	P. M. Schultz	New Berlin..	4.00	2375	J. Schaper...	Waukesha...	4.10
2305	Jno. Bouchner	New Berlin..	4.30	2376	H. Grosta...	Waukesha...	3.20
2306	Geo. Schuly...	New Berlin..	4.30	2377	G. Lyons....	Waukesha...	3.60
2307	H. Mithran...	New Berlin..	3.00	2378	L. Lyons....	Waukesha...	4.10
2308	Joha Grames.	New Berlin..	3.80	2379	J. Maus & Sons	Waukesha...	3.40
2309	Henry Wolf...	New Berlin..	3.70	2380	J. Wriht....	Waukesha...	3.70
2310	H. C. Luke...	New Berlin..	3.80	2381	C. G. ebe....	Waukesha...	3.40
2311	John F. PUNCH	New Berlin..	4.30	2382	G. Wilson...	Waukesha...	4.20
2312	H. A. Luke...	New Berlin..	3.80	2383	J. H. H. rton	Waukesha...	3.30
2313	Geo. Bickert.	New Berlin..	4.70	2384	J. G. Thomas.	Burnevelt...	3.40
2314	A. Wachbaum	New Berlin..	3.90	2385	B. Evans....	Burnevelt...	3.40
2315	O. W. Smith...	New Berlin..	4.70	2386	Waite Thomas	Burnevelt...	3.20
2316	H. Kiedoper...	New Berlin..	3.80	2387	John Malone	Burnevelt...	3.20
2317	Mike Boheman	New Berlin..	4.60	2388	D. R. Jones...	Burnevelt...	3.00
2318	V. E. Moore...	New Berlin..	3.90	2389	J. D. Jones...	Burnevelt...	2.60
2319	P. Wagner, Jr.	New Berlin..	3.60	2390	O. Adams...	Burnevelt...	3.60
2320	P. Wagner, Sr.	New Berlin..	3.30	2391	O. C. Evans.	Burnevelt...	3.60
2321	Ben Burn...	New Berlin..	4.30	2392	Wm. Rees...	Burnevelt...	2.70
2322	J. Baumgart ner.....	New Berlin..	3.70	2393	R. C. Williams	Burnevelt...	3.70
2323	A. L. Kies...	New Berlin..	3.40	2394	R. D. Jones...	Burnevelt...	2.80
2324	F. N. Miller...	New Berlin..	3.70	2395	W. X. Jones.	Burnevelt...	3.70
2325	Geo. Fletcher.	New Berlin..	4.10	2396	R. W. Jones.	Burnevelt...	3.00
2326	Adam Kern...	New Berlin..	3.60	2397	J. Harris...	Burnevelt...	3.20
2327	Philip Irving.	New Berlin..	4.10	2398	John Harris.	Burnevelt...	3.10
2328	Peter Petrie.	New Berlin..	4.60	2399	J. Heimgphel.	Lyons.....	3.10
2329	H. Krahn...	New Berlin..	4.80	2400	John Fraser.	Lyons.....	3.20
2330	Geo. Walfel...	New Berlin..	5.00	2399	H. Roberts...	Lyons.....	2.80
2331	Wm. Haunn...	New Berlin..	4.10	2400	S. Shatz....	Lyons.....	3.90
2332	W. Graser...	New Berlin..	4.30	2401	Jake Gleason	Lyons.....	3.70
2333	W. E. Boucher	New Berlin..	4.80	2402	C. Davis....	Lyons.....	3.50
2334	J. H. Phillips	New Berlin..	Lost	2403	W. Swants...	Lyons.....	3.10
2335	G. Wagner...	New Berlin..	4.00	2404	H. Eckert...	Lyons.....	3.60
2336	Geo. Webber.	New Berlin..	Lost	2405	C. Praske...	Lyons.....	3.60
2337	J. Bornheimer.	New Berlin..	5.70	2406	A. Liltke...	Lyons.....	3.70
2338	H. Kern.....	New Berlin..	4.20	2407	H. Vanterhyde	Lyons.....	2.60
				2408	Ad. Vantyne.	Lyons.....	3.90
				2409	J. Webele...	Lyons.....	3.70

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	B t. at.
2410	Geo. Last.	Lyons.	3.50	2450	C. C. Rasmussen	Neenah	4.30
2411	J. Wieks	Lyons.	3.60				
2412	Wm. Patter	Lyons.	3.10	2481	C. C. Rasmussen	Neenah	4.20
2413	E. Fowiston	Lyons.	3.60	2482	M. Ladd	Neenah	4.40
2414	G. Wavir	Lyons.	3.60	2483	H. M. Picet	Neenah	4.80
2415	C. Ball	Lyons.	3.60	2484	Chris Werth	Neenah	3.40
2416	H. Burmeister	Lyons.	3.50	2485	Geo. Hanson	Neenah	3.90
2417	H. Cornstack	Lyons.	3.10	2486	F. Reddock	Neenah	4.20
2418	W. Baumback	Lyons.	3.50	2487	H. Gronzo	East Delavan	3.60
2419	H. F. Smith	Lyons.	3.30	2488	J. L. W-yhranch	East Delavan	3.60
2420	F. Riggs	Lyons.	3.30	2489	E. Voss	East Delavan	3.30
2421	E. Dauiston	Lyons.	4.00	2490	Ben Rodwell	East Delavan	3.70
2422	J. G. Meadows	Lyons.	3.60	2491	Peter Hanson	East Delavan	3.80
2423	Lewis Wicks	Lyons.	3.70	2492	J. S. McDougall	East Delavan	4.50
2424	E. Otto	Lyons.	3.20	2493	Jim Hollester	East Delavan	3.90
2425	Wm. Sock	Lyons.	3.40	2494	R. M. Cabe	East Delavan	3.40
2426	Wm. S. Oar	Lyons.	3.00	2495	H. Dalton	East Delavan	3.00
2427	Chas. Spoor	Lyons.	3.50	2496	M. Mind	East Delavan	5.40
2428	Joe Schaffer	Lyons.	3.10	2597	Geo. Farey	East Delavan	3.80
2429	Mr. Hicks	Lyons.	3.20	2498	G. Pierce	East Delavan	5.30
2430	Wm. Bricks	Lyons.	3.70	2499	J. F. Ross	East Delavan	3.60
2431	J. W. Hand	Lyons.	3.40	2500	Henry Bros.	East Delavan	3.30
2432	Herman Roben	Lyons.	3.50	2501	R. M. Caidms	East Delavan	3.50
2433	J. Butchle	Lyons.	3.40	2502	M. H. Brigham	East Delavan	4.30
2434	J. Hawn	Lyons.	3.60	2503	C. E. Dohyn	East Delavan	4.40
2435	Wm. Vorpagle	Lyons.	3.30	2504	Bert Delop.	East Delavan	4.70
2436	H. A. Ruben	Lyons.	3.80	2505	J. H. Merwin	East Delavan	4.80
2437	M. Jones	Lyons.	3.40	2506	C. A. Ball	East Delavan	4.70
2438	Wm. Meadows	Lyons.	3.40	2507	C. Sterns	East Delavan	4.40
2439	Geo. Meadows	Lyons.	3.30	2508	C. Meacham	East Delavan	4.20
2440	H. J. Hawks	Lyons.	4.00	2509	C. Kishner	East Delavan	3.80
2441	Tom Wilcox	Lyons.	4.00	2510	J. Fitzgerald	East Delavan	4.40
2442	F. Blank	Lyons.	4.00	2511	D. D. Curch	East Delavan	4.30
	Mrs. M. P. Edwards	Milwaukee	3.40	2512	Will Sherman	East Delavan	5.20
2443	W. Dooley	Milwaukee	5.20	2513	G. Vanovelzer	East Delavan	3.90
2444	A. Hangorter	Milwaukee	4.20	2514	E. J. Brown	East Delavan	4.20
2445	H. Johnson	Milwaukee	4.00	2515	J. Brown	East Delavan	4.30
2446	Mrs. H. Holzinger	Milwaukee	2.80	2516	A. W. Henry	East Delavan	3.40
2447	J. E. Lane	Milwaukee	4.50	2517	Douglas & Parker	East Delavan	4.20
2448	R. Langworthy	Milwaukee	3.60	2518	Dewight Hatch	East Delavan	4.00
2449	Ellen Walbena	Milwaukee	6.00	2519	G. W. Farrer	East Delavan	3.00
2450	John McLeod	Milwaukee	1.70	2520	E. A. Thomas	East Delavan	4.40
2451	Albert Schmiks	Milwaukee	3.40	2521	B. H. Merwin	East Delavan	4.20
2452	Emma Hynes	Milwaukee	4.40	2522	Chas. Melany	East Troy	3.00
2453	Daniel Butzer	Milwaukee	3.70	2523	Chas. Kuhl	East Troy	4.10
2454	A. Reese	Milwaukee	5.40	2524	H. Kaiser	East Troy	4.00
2455	H. Rush	Milwaukee	3.00	2525	Philip Mais	East Troy	3.50
2456	F. Gerber	Milwaukee	3.00	2526	F. Wendt, Jr.	East Troy	4.00
2457	F. S. Zeb-tart	Milwaukee	3.00	2527	H. Brooks	East Troy	3.50
2458	Louis Hameyer	Milwaukee	2.70	2528	Carl Huth	East Troy	4.00
2459	A. Rachman	Milwaukee	4.00	2529	D. Marshall	East Troy	3.80
2460	Mike Cregar	Milwaukee	3.60	2530	Frank Rice	East Troy	3.90
2461	L. Brown	Milwaukee	3.80	2531	H. Noll	East Troy	4.10
2462	J. T. Drepahl	Milwaukee	4.00	2532	Tnos. Ingham	East Troy	3.70
2463	J. Addler	Milwaukee	3.00	2533	Jos Snobody	East Troy	4.00
2464	E. Finger & Son	Milwaukee	3.40	2534	A Singbersche	East Troy	4.00
2465	W. Froemaning	Milwaukee	3.60	2535	Ja. Brady	East Troy	3.60
2466	A. Christianson	Neenah	4.30	2536	P. Farrell	East Troy	3.80
2467	M. Matteson	Neenah	4.40	2537	John Knctt.	East Troy	4.60
2468	Chris Sivenson	Neenah	4.20	2538	H. Weimbauch	East Troy	3.80
2469	Hans Hanson	Neenah	2.10	2539	J. Merrick	East Troy	4.50
2470	W. Krempien	Neenah	3.80	2540	John Schraub	East Troy	4.50
2471	I. Mulkensow	Neenah	4.50	2511	J. Spaight	East Troy	4.00
2472	Chris Jacobson	Neenah	3.10	2542	F. Frost	East Troy	4.60
2473	Chris Oleson	Neenah	4.00	2543	C. Altennerg.	East Troy	4.30
2474	Hans Peter Larson	Neenah	4.40	2544	H. Speids	East Troy	3.70
2475	Jacob Jacobson	Neenah	5.10	2545	T. Brownles	East Troy	4.00
2476	Aug. Pipenber	Neenah	4.00	2547	T. Wanbrick	East Troy	3.60
2477	C. Jorgenson	Neenah	3.50	2548	R. Weisen-thall	East Troy	4.00
2478	Geo. Allenson	Neenah	4.00				
2479	J. C. Sorrenson	Neenah	3.90	2549	J. Uhrlitg.	East Troy	4.00



## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
2550	Sol Duncan	East Troy	3.90	2617	F. Hallzhamer	Lake Geneva.	4.00
2551	T. Fess	East Troy	4.20				
2552	J. Bushman	East Troy	3.70	2618	W. Schumaker	Lake Geneva.	3.10
2553	John Wood	East Troy	3.40	2619	A. Stater	Lake Geneva.	3.40
2554	Ed Mitchell	East Troy	3.40	2620	R. Powers	Lake Geneva.	3.80
2555	John Mitchell	East Troy	2.80	2621	H. Carrins	Lake Geneva.	4.00
2556	A. O'Leary	East Troy	3.10	2622	G. Delains	Lake Geneva.	3.70
2557	Geo. Burton	East Troy	3.30	2623	N. Helgert	Lake Geneva.	3.70
2558	A. Paulson	East Troy	4.00	2624	Geo. Rice	Lake Geneva.	3.70
2559	Dan Spaight	East Troy	3.70	2625	W. Sherman	Lake Geneva.	3.20
2560	M. McKenzie	East Troy	3.60	2626	J. Watzthomer	Lake Geneva.	3.70
2561	Jim Burns	East Troy	3.80	2627	A. Fries	Lake Geneva.	3.60
2562	Jim Burns	East Troy	3.80	2628	Chas. Larch	Lake Geneva.	3.30
2563	Pat Madden	East Troy	3.80	2629	Annie-Auspring	Lake Geneva.	3.80
2564	W. Kanarth	East Troy	4.10	2630	John Wagner	Lake Geneva.	3.80
2565	W. Walbraut	East Troy	4.00	2631	John Stokoe	Lake Geneva.	3.60
2566	A. Brigham	East Troy	3.50	2632	F. Hild	Lake Geneva.	3.50
2567	Mrs. Brigham	East Troy	3.80	2633	M. N. helty (M)	Lake Geneva.	3.30
2568	Geo. Lake	East Troy	4.00	2634	M. Nohely (N)	Lake Geneva.	3.00
2569	Jack Bliss	East Troy	3.30	2635	F. Brady	Lake Geneva.	3.80
2570	Frank Loomis	East Troy	3.70	2636	Z. Lockwood	Lake Geneva.	3.80
2571	Ed Hart, Jr.	East Troy	4.00	2637	O. W. Sackett	Lake Geneva.	4.00
2572	A. Justin	East Troy	3.60	2638	J. Williams	Lake Geneva.	4.20
2573	Wm. Ingham	East Troy	4.10	2639	Mike Craten	Lynn	3.10
2574	Ed Ward	East Troy	4.20	2640	S. Stoveall	Lynn	4.00
2575	Mrs. Shannon	East Troy	3.50	2641	F. Phillips	Lynn	3.90
2576	Chas. Brown	East Troy	3.10	2642	R. Kimball	Lynn	4.00
2577	Cre a m e r y (vat)	Appleton	3.80	2643	F. B-r man	Lynn	4.20
2578	Cre a m e r y (skim milk)	Appleton	1.40	2644	W. Steffen	Lynn	4.20
2579	Cre a m e r y (cream)	Appleton	15.40	2645	Byron Palmer	Lynn	4.00
2580	R. H. Randall	Appleton	4.20	2646	S. Sheppes	Lynn	3.70
2581	R. H. Randall	Appleton	4.00	2647	C. Weter	Lynn	3.80
2582	H. M. Skinnings	Appleton	4.00	2648	w. Green	Lynn	3.80
2583	H. M. Skinnings	Appleton	3.50	2649	W. Bartlett	Lynn	4.20
2584	C. Myers	Appleton	3.80	2650	C. M-Bride	Lynn	4.20
2585	C. Myers	Appleton	3.40	2651	G. Ronbotham	Lynn	3.80
2586	F. Hyde	Appleton	3.40	2652	J. Ronbotham	Lynn	3.90
2587	F. Hyde	Appleton	3.40	2653	C. Peters	Lynn	3.60
2588	G. Hyde	Appleton	3.80	2654	C. Faatun	Lynn	4.00
2589	Gus Osman	Appleton	3.30	2655	Butter milk	Lynn	0.40
2590	Gus Osman	Appleton	3.20	2656	Skim milk	Lynn	0.10
2591	John Weiland	Appleton	3.00	2657	H. Vosberg (M)	Genoa Jct	3.80
2592	O. Thishurns	Appleton	3.40	2658	H. V. sb-rg (N)	Genoa Jct	4.00
2593	O. Thishurns	Appleton	4.40	2659	H. Bugt (N)	Genoa Jct	3.20
2594	Clint Bullard	Appleton	3.50	2660	H. Bugt (M)	Genoa Jct	4.20
2595	Clint Bullard	Appleton	4.40	2661	W. Fuller	Genoa Jct	3.70
2596	M. Quincaan	Lake Geneva	4.60	2662	W. Peacock	Genoa Jct	4.00
2597	T. O'Shandy	Lake Geneva	3.40	2663	F. Bundy	Genoa Jct	3.80
2598	M. Ward	Lake Geneva	3.40	2664	C. Gerens	Genoa Jct	3.60
2599	O. W. Potter	Lake Geneva	3.50	2665	W. Sterns (M)	Genoa Jct	3.70
2600	John Quin	Lake Geneva	3.90	2666	W. Sterns (N)	Genoa Jct	4.50
2601	James Quinn	Lake Geneva	3.20	2667	A. Halfs	Genoa Jct	3.50
2602	R. Croue	Lake Geneva	3.40	2668	L. Huffman	Genoa Jct	3.40
2603	A. F. Arnold	Lake Geneva	4.00	2669	L. Huffman	Genoa Jct	3.80
2604	C. Arnold	Lake Geneva	4.00	2670	J. B. Reynolds	Genoa Jct	3.90
2605	Ed Price	Lake Geneva	3.80	2671	C. Gibbs	Genoa Jct	4.00
2606	A. Wright	Lake Geneva	3.60	2672	J. Westlake (N)	Genoa Jct	3.90
2607	John Hoffman	Lake Geneva	3.30	2673	J. Westlake (M)	Genoa Jct	4.00
2608	J. Helgert	Lake Geneva	2.80	2674	C. Fahnstaff	Genoa Jct	4.20
2609	Mrs. Sherman	Lake Geneva	4.00				
2610	Jake Gorman (N)	Lake Geneva	3.50	2675	Moore & Gannon	Genoa Jct	3.80
2611	Jake Gorman (M)	Lake Geneva	3.50	2676	J. R-ed	Genoa Jct	3.40
2612	N. Cross	Lake Geneva	4.40	2677	D. Miller	Genoa Jct	3.90
2613	F. Dub-nstein	Lake Geneva	4.00	2678	W. Bestule	Genoa Jct	3.80
2614	L. A. Kimball	Lake Geneva	4.50	2679	A. Rowe	Genoa Jct	3.90
2615	Fred Gleason (N)	Lake Geneva	4.00	2680	E. P. Gifford	Genoa Jct	3.40
2616	Fred Gleason (M)	Lake Geneva	3.90	2681	E. Tibbetts	Genoa Jct	3.60
				2682	E. Tibbetts	Genoa Jct	3.40
				2683	H. Rush	Genoa Jct	3.90
				2684	W. Allen	Genoa Jct	4.20
					M. Katzenberger	Genoa Jct	3.70
				2685	H. Gibbs	Genoa Jct	3.80
				2686	Skim milk	Genoa Jct	0.10

ANALYSES OF MILK—Continued.

No. Lab.	From whom taken.	Address.	Butter fat.	No. Lab.	From whom taken.	Address.	Butter fat.
2687	Skim milk	Genoa Jet	3.10	2760	J. Memler	Wilmot	3.90
2688	Butter milk	Genoa Jet	0.30	2761	F. Haselmann	Wilmot	3.80
2689	J. Rack	Keyes Corners	3.10	2762	F. Pagle	Wilmot	4.00
2690	J. S. Rock	Keyes Corners	4.09	2763	L. Hatch	Wilmot	4.00
2691	Wm. Voss	Keyes Corners	3.60	2764	T. Wasnieuski	Wilmot	3.00
2692	Fred Peterson	Keyes Corners	8.80	2665	W. Horn	Wilmot	4.10
2692	Wm. Towle	Keyes Corners	4.09	2766	J. Matley	Wilmot	3.40
2693	F. Cutler	Keyes Corners	4.00	2767	B. Kersting	Wilmot	4.00
2694	H. Juleson	Keyes Corners	4.00	2768	F. Johanson	Wilmot	3.60
2695	Geo. Barr	Keyes Corners	4.00	2769	H. S-idschog	Wilmot	4.00
2696	James Walsh	Keyes Corners	4.00	2770	H. Kastin	Wilmot	3.80
2697	James Murphy	Keyes Corners	3.40	2772	J. Swensen	Wilmot	4.00
2698	Cyrus Ingalls	Keyes Corners	3.80	2773	J. Gauge	Wilmot	3.50
2699	Chas. Cooper	Keyes Corners	4.40	2774	Vincent Bros	Wilmot	3.70
2700	R. Smith	Keyes Corners	4.00	2775	S. Pierce	Wilmot	3.70
2701	F. Walsh	Keyes Corners	3.60	2776	A. McDougal	Wilmot	3.50
2702	Geo. Massey	Keyes Corners	4.00	2777	J. Sanborn	Wilmot	3.50
2703	Wm. Massey	Keyes Corners	3.00	2778	W. Carey	Wilmot	3.60
2704	J. G. Wilson	Keyes Corners	3.40	2779	Separators	Wilmot	0.30
2705	S. Smith	Keyes Corners	3.70		(fact.)	Wilmot	0.30
2706	A. Alexander	Keyes Corners	3.60	2780	Butter Milk	Wilmot	0.20
2707	A. S. Robinson	Keyes Corners	4.01	2781	G. Huntton	Salem	3.60
2708	H. M. Hatch	Keyes Corners	3.80	2782	W. Johnson	Salem	4.00
2709	Silas Ingalls	Keyes Corners	4.00	2783	F. F. Smith	Salem	4.00
2710	Dillenbeck Bros	Keyes Corners	4.00	2784	C. Hilles	Salem	4.20
2711	Sam Winn	Keyes Corners	3.90	2785	Prosser & Co	Salem	4.30
2712	Skim milk	Keyes Corners	0.30	2786	I. P. Helms	Salem	3.40
2713	Butter milk	Keyes Corners	1.00	2787	A. Turnick	Salem	3.60
2714	E. B. Hopkins	Springfield	3.20	2788	H. Brown	Salem	3.60
2715	Sam Henry	Springfield	3.80	2789	W. V. Cull	Salem	3.20
2716	C. P. Taylor	Springfield	3.40	2790	M. DeBell	Salem	4.00
2717	P. Pendegraft	Springfield	3.60	2791	P. Slack	Salem	3.80
2718	C. Malck	Springfield	4.00	2792	T. Watkins	Salem	3.60
2719	C. Radcas	Springfield	3.20	2793	F. Stenzel	Salem	4.40
2720	H. Knert	Springfield	3.20	2794	F. Wi ks	Salem	4.20
2721	Ph-lips & Miller	Springfield	3.20	2795	C Brandis	Salem	4.20
2722	J. Margetroyd	Springfield	3.80	2796	G. Stockwell	Salem	4.20
2723	J. Borpoyle	Springfield	4.00	2797	C. Clark & Co	Salem	3.70
2724	D. M. Lame	Springfield	4.00	2798	G. Weaver	Salem	3.80
2725	Geo. Ritchie	Springfield	4.20	2799	W. Sha ey	Salem	4.00
2726	P. Nesdes	Springfield	4.00	2800	H. Smith	Salem	4.00
2727	H. Stolte	Springfield	3.20	2801	A. Fettes	Salem	4.60
2728	H. Boyle	Springfield	3.60	2802	C. Deppie	Salem	3.60
2729	W. Lewis	Springfield	3.60	2803	J. Furnicks(N)	Salem	2.60
2730	Aug. Borpoyle	Springfield	3.40	2804	J. Furnicks(M)	Salem	4.00
2731	P. Gehraud	Springfield	3.80	2805	F. Gariand (N)	Salem	3.40
2732	H. Dettman	Springfield	3.40	2806	F. Gariand (M)	Salem	4.10
2733	G. Morey	Springfield	3.40	2808	H. Bemmer	Salem	3.80
2734	John Alp	Springfield	3.60		Flemming Bros	Salem	3.60
2735	W. Gott	Springfield	3.60	2809	H. Hollister	Salem	4.00
2736	J. Armstrong	Springfield	3.70	2810	L. Orvis	Salem	3.80
2737	J. H. Duckett	Springfield	4.00	2811	M. Hutz	Salem	4.40
2738	Fred Alp	Springfield	3.80	2812	J. Welton	Salem	3.60
2739	C. Pipes	Springfield	3.40	2813	F. G. Hartnell	Salem	3.60
2740	J. E. Brett	Springfield	3.80	2814	F. Marin	Salem	4.00
2741	Matt. Weeks	Springfield	3.80	2815	K. K. Cass	Salem	3.80
2742	W. Baue	Springfield	3.60	2816	F. J. Smith	Salem	3.70
2743	D. Condon	Springfield	4.40	2817	A. Padlock	Salem	4.00
2744	S. B. Able	Springfield	3.40	2818	M. Paddock	Salem	3.80
2745	Geo. Johnson	Springfield	3.30	2819	E. W. Ripley	Salem	4.20
2746	C. Griffin	Springfield	3.30	2820	H. Kreuges	Salem	4.00
2747	O. Johnson	Springfield	3.40	2821	Butter Milk	Salem	0.40
2748	Jos. Rouse	Springfield	3.90	2822	Sep-ratos	Salem	0.30
2749	Skim Milk	Springfield	0.10	2823	C. Friday	Walworth	3.50
2750	Butter Milk	Springfield	0.20	2824	C. Ballman	Walworth	3.20
2752	F. Sherman	Wilmot	3.40	2815	C. Church	Walworth	5.20
2753	C. Frank	Wilmot	3.40	2826	C. Ryher	Walworth	3.80
2754	Geo. Kroncke	Wilmot	3.70	2827	H. Bell	Walworth	3.20
2755	C. Kroncke	Wilmot	4.20	2828	H. Smitke	Walworth	3.50
2756	A. Schery	Wilmot	3.90	2829	C. Fredrick	Walworth	3.00
2757	Fleming Bros.	Wilmot	3.40	2830	F. Clark	Walworth	3.30
1758	Geo. Winchell	Wilmot	4.40	2831	H. Voltz	Walworth	3.40
2759	A. Pacy	Wilmot	4.00	2832	H. Boyce	Walworth	4.20

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter fat.
2833	Skim Milk.....	Walworth.....	0.40	2891	J. R. Orton (N)	Berlin.....	3.60
2834	P. Sullivan.....	Walworth.....	4.00	2892	J. R. Orton (M)	Berlin.....	3.80
2835	H. Weibell.....	Walworth.....	3.00	2893	H. S. Sherman (N)	Berlin.....	3.40
2836	E. Burnell.....	Walworth.....	3.60	2894	H. S. Sherman (M)	Berlin.....	3.70
2837	W. Van Schick.....	Walworth.....	4.00	28'5	C. S. Morris (N)	Berlin.....	3.90
2838	R. Trumbell.....	Walworth.....	4.00	2896	C. S. Morris (M)	Berlin.....	4.00
2839	C. Bassett.....	Walworth.....	4.00	2897	A. Mason.....	Berlin.....	3.40
2840	H. Findings.....	Walworth.....	4.00	2898	A. Kohiski (M)	Berlin.....	3.70
2841	U. Lee.....	Walworth.....	4.00	2899	A. Kohiski (N)	Berlin.....	3.40
2842	H. Seeley.....	Walworth.....	4.40	2900	Aug. Leise (N)	Berlin.....	3.30
2843	Skim Milk.....	Walworth.....	0.40	2901	Aug. Leise (M)	Berlin.....	3.50
2844	Butter Milk.....	Walworth.....	0.30	2902	Kerwin Bros. (N)	Berlin.....	3.40
2845	John Dugman.....	Bloom Prairie	3.60	2903	Kerwin Bros (M)	Berlin.....	3.30
2846	I. Tibbits.....	Bloom Prairie	4.00	2904	L. Sherlong (M)	Berlin.....	3.20
2847	J. Gates.....	Bloom Prairie	3.60	2905	L. Sherlong (N)	Berlin.....	3.20
2848	Thos. Gries.....	Bloom Prairie	4.00	2 06	B. Post.....	Berlin.....	3.00
2849	L. A. Nichol's.....	Bloom Prairie	.....	2907	N. Monte. (M)	Berlin.....	3.20
2850	Jim Grier.....	Bloom Prairie	.....	2908	N. Monte. (N)	Berlin.....	3.30
2851	D. F. Moore.....	Bloom Prairie	.....	2909	B. Eagan.....	Berlin.....	3.40
2852	W. Vougt.....	Bloom Prairie	.....	2910	B. Eagan.....	Berlin.....	3.40
2853	W. Bennett.....	Bloom Prairie	.....	.....	S. W. Richard- son	Berlin.....	3.60
2854	H. Haizpetes.....	Bloom Prairie	.....	.....	S. W. Richard- son	Berlin.....	3.70
2855	J. Head.....	Bloom Prairie	.....	.....	W. Horton.....	Berlin.....	3.30
2856	John Grier.....	Bloom Prairie	.....	.....	W. Horton.....	Berlin.....	3.20
2857	D. S. Allen.....	Bloom Prairie	.....	.....	C. Deis.....	Berlin.....	3.40
2858	H. A. Arnold.....	Bloom Prairie	.....	.....	C. Deis.....	Berlin.....	3.60
2859	M. Hatch.....	Bloom Prairie	.....	.....	Geo. Warren.....	Berlin.....	3.40
2860	F. Hausbushes.....	Bloom Prairie	.....	.....	Ger. Warren.....	Berlin.....	3.00
2861	H. Hatch.....	Bloom Prairie	4.00	.....	E. L. Whitney.....	Berlin.....	3.00
2862	J. G. Nichols.....	Bloom Prairie	3.80	.....	L. Nowak.....	Berlin.....	3.00
2863	H. Buell.....	Bloom Prairie	4.00	.....	L. Nowak.....	Berlin.....	3.10
2864	J. W. Boyd.....	Bloom Prairie	3.50	.....	Geo. Nagel.....	Berlin.....	3.80
2865	J. Fraser.....	Bloom Prairie	4.00	.....	Jo. Kinsbuski.....	Berlin.....	3.30
2866	Mrs. Gaffney.....	Bloom Prairie	3.80	.....	Jo. Kinsbuski.....	Berlin.....	4.00
2867	Seperatos.....	Bloom Prairie	0.40	.....	M. Nizbor.....	Berlin.....	4.20
2868	Butter Milk.....	Bloom Prairie	0.50	.....	M. Nizbor.....	Berlin.....	4.40
2869	W. Allen.....	Bloom Prairie	4.00	.....	W. J. Middleton.....	Berlin.....	3.50
.....	Waushara	.....	.....	.....	W. J. Middleton.....	Berlin.....	3.90
.....	Dairymen's	.....	.....	2909	J. Karkaski.....	Berlin.....	3.20
.....	Asso., Skim	Berlin.....	0.70	2010	J. Karkaski.....	Berlin.....	3.00
.....	Milk	.....	.....	2011	Sarah Marshall.....	Berlin.....	3.60
2870	Waushara	.....	.....	2012	Sarah Marshall.....	Berlin.....	3.60
.....	Dairymen's	.....	.....	2313	W. S. Post.....	Berlin.....	4.00
.....	Asso., Butter	Berlin.....	0.40	2914	Owen Evans.....	Berlin.....	3.10
.....	Milk	.....	.....	2915	Aug. Zeimer.....	Berlin.....	4.10
2871	Waushara	.....	.....	2916	F. McClellan.....	Berlin.....	3.40
.....	Dairymen's	Berlin.....	3.90	2917	F. McClellan.....	Berlin.....	3.40
.....	Vat	.....	.....	2918	Miles Mix.....	Berlin.....	3.20
2872	Berlin Cream- ery Co., Skim	Berlin.....	0.50	2919	John Burnett.....	Berlin.....	3.90
.....	Milk	.....	.....	2920	M. Senate.....	Berlin.....	3.00
2873	Berlin Cream- ery Co., Skim	Berlin.....	0.80	2021	Jo. Supenski.....	Berlin.....	3.20
.....	Milk	.....	.....	2022	H. Booker.....	Richland City	3.20
2874	Berlin Cream- ery Co., But- ter Milk	Berlin.....	0.30	2523	D. Moore.....	Richland City	3.70
.....	Vat	Berlin.....	3.40	2024	F. W. Atwood.....	Richland City	3.80
2875	Berlin Cream- ery Co., Vat	Berlin.....	3.40	2925	E. P. Seaman.....	Richland City	3.50
2876	G. McClellan.....	Berlin.....	3.40	2925	M. Moore.....	Richland City	3.40
2877	J. A. Parsons.....	Berlin.....	3.10	2926	W. Krouskopp.....	Richland City	3.40
2879	W. H. Othe- burn	Berlin.....	3.50	2927	Hans Hansen.....	Richland City	3.40
.....	Milk	Berlin.....	3.40	2928	J. A. Bliss.....	Richland City	3.80
2879	W. McClellan.....	Berlin.....	3.40	2929	M. W. Gotham.....	Richland City	4.20
2880	J. Preske.....	Berlin.....	3.40	2830	Geo. King.....	Richland City	3.20
2881	N. Spoor.....	Berlin.....	3.00	2031	F. Brown.....	Richland City	3.50
2882	M. Glynn.....	Berlin.....	3.20	2932	Chas. Ketcham.....	Richland City	4.00
2883	C. Buck.....	Berlin.....	3.60	2933	J. Danner.....	Richland City	3.20
2884	J. McNealy.....	Berlin.....	3.00	2934	N. Burnham.....	Richland City	3.80
2885	N. Hinman.....	Berlin.....	3.50	2935	J. N. Southard.....	Richland City	3.40
2886	C. Smith.....	Berlin.....	3.30	2936	C. Willis.....	Milwaukee.....	2.60
2887	W. Ziege.....	Berlin.....	3.40	2937	Casper Weinert.....	Milwaukee.....	3.10
2889	John Davy (N)	Berlin.....	3.20	.....	.....	.....	.....
2890	John Davy (M)	Berlin.....	3.60	.....	.....	.....	.....

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	But-ter Fat.	Lab. No.	From whom taken.	Address.	But-ter Fat.
2938	F. H. Marvin.	Milwaukee.	4.49	3035	I. Hoffman	Milwaukee.	3.90
2939	J. R. Hadfield	Milwaukee.	4.10	3006	I. H. Dewey	Milwaukee.	4.40
2940	J. R. Hadfield	Milwaukee.	4.80	3007	T. Atkinson	Milwaukee.	3.60
2941	F. V. Collinge.	Milwaukee.	4.40	3008	T. W. West.	Milwaukee.	3.40
2942	A. Burkhardt.	Milwaukee.	7.00	3009	L. Hintzel.	Milwaukee.	3.60
2943	O. L. Gredley & Co.	Milwaukee.	3.80	3010	H. B. Cumings	North Prairie.	4.40
2944	O. L. Gredley & Co.	Milwaukee.	5.00	3011	H. R. Charles.	Lima.	4.00
2945	O. L. Gredley & Co.	Milwaukee.	3.50	3012	John Cox	Whitewater	3.70
2946	O. L. Gredley & Co.	Milwaukee.	4.30	3013	—Miller	Eagle	4.60
2947	Philip Weinert	Milwaukee.	2.40	3014	R. Piper	Eagle	3.60
2948	Mary Becker	Milwaukee.	3.40	3015	H. Clemmons.	Eagle	4.70
2948	John Britzman	Milwaukee.	2.50	3016	R. Witton	Eagle	4.00
2950	H. Heyer	Milwaukee.	2.10	3017	J. R. Hadfield.	Waukesha	4.00
2991	Rick. Scheradt	Milwaukee.	3.20	3018	S. A. Fox	Waukesha	4.00
2952	Chas. Baake.	Milwaukee.	3.20	3019	M. Fedeser	Waukesha	3.80
2953	Herman Ense.	Milwaukee.	3.30	3020	I. E. Humphry	Ixonia	3.20
2954	Fred Labbs.	Milwaukee.	2.50	3021	E. Davis	Ixonia	3.30
2955	C. Kruckel	Milwaukee.	4.20	3022	J. Brooks	Watertown.	3.00
2956	A. Daberkow.	Milwaukee.	3.20	3023	Nick Zeigler.	Columbus.	3.20
2957	J. Mathouse.	Milwaukee.	3.80	3112	Judge Sei- becker	Madison	2.60
2958	O. L. Gridley & Co.	Milwaukee.	5.25	3133	D. A. White.	Auroraville.	3.93
2959	B. M. Danielson	Milwaukee.	4.00	3134	M. H. Bowen	Auroraville.	3.20
2960	J. Zweifel.	Milwaukee.	4.00	3135	Aug. Rodencel	Auroraville.	3.60
2961	H. Stuesse	Milwaukee.	4.00	3136	M. Carey	Auroraville.	3.60
2962	H. Grumwalet	Milwaukee.	3.60	3137	N. Harrington.	Auroraville.	3.60
2963	A. W. Hink- forth	Milwaukee.	3.60	3143	C. A. Davenport	Auroraville.	3.80
2964	H. Stoppel	Milwaukee.	3.40	3144	P. Dobbins.	Auroraville.	3.30
2965	Aobelt & Inly.	Milwaukee.	3.00	3145	M. E. Allen	Auroraville.	3.29
2966	C. Kuhleman.	Milwaukee.	3.40	3146	A. beaman	Auroraville.	3.40
2967	Fred Snyder.	Milwaukee.	3.40	3141	Tom Jones	Auroraville.	3.40
2968	F. Rosneau	Milwaukee.	3.40	3142	C. E. Kentfield	Auroraville.	3.90
2969	Ernest Hoeput	Milwaukee.	4.00	3143	Jos. Dunlap.	Auroraville.	2.80
2970	O. Stahl.	Milwaukee.	3.80	3144	F. Mitchell.	Auroraville.	3.30
2971	F. F. Dunman.	Milwaukee.	3.60	3145	J. Mathews	Auroraville.	3.60
2972	J. Livingston.	Milwaukee.	3.60	3146	Not at factory	Auroraville.	3.20
2973	W. M. Kaul.	Milwaukee.	3.00	3147	Geo. Cate.	Auroraville.	3.70
2974	H. Werner.	Milwaukee.	3.40	3148	B. F. Daven- port	Auroraville.	3.20
2975	L. Stempfer.	Milwaukee.	3.40	3150	W. H. Hall	Auroraville.	3.40
2976	A. Tuchalski	Milwaukee.	3.20	3151	Mrs. A. F. Clark	Auroraville.	3.10
2977	M. Welkiuk	Milwaukee.	4.00	3152	R. Mitchell	Auroraville.	3.60
2978	S. Badoniski.	Milwaukee.	3.20	3153	E. Jones	Auroraville.	3.40
2879	V. Seesnp.	Milwaukee.	4.20	3154	D. W. Cate	Auroraville.	3.10
2980	A. Nolte	Milwaukee.	3.80	3155	E. H. Walker	Auroraville.	3.60
2981	H. Ruhn.	Milwaukee.	4.40	3156	F. Culver	Auroraville.	3.40
2982	W. McCowen.	Milwaukee.	3.50	3157	W. Bronson	Auroraville.	4.00
2983	J. B. Eek.	Milwaukee.	4.20	3158	John Tascher	Mt. Vernon.	3.29
2984	Fred Zindars.	Milwaukee.	4.00	3159	John Tascher	Mt. Vernon.	3.00
2985	F. Stuth.	Milwaukee.	3.60	3160	A. C. Brader.	Mt. Vernon.	4.00
2986	W. F. Stallah.	Milwaukee.	3.60	3161	Chas. Erfurth.	Mt. Vernon.	3.40
2987	G. Schaning.	Milwaukee.	3.20	3162	F. Moore, Sr.	Mt. Vernon.	3.40
2988	D. Schunk.	Milwaukee.	3.20	3163	Wm. Hankle.	Mt. Vernon.	3.40
2989	A. Grentnes.	Milwaukee.	3.00	3164	A. Everille.	Mt. Vernon.	3.00
2990	Henry Witt.	Milwaukee.	3.30	3165	Wm. Lust.	Mt. Vernon.	3.40
2991	H. Wegner.	Milwaukee.	3.69	3166	G. Amanson.	Mt. Vernon.	3.20
2992	G. Scheib.	Milwaukee.	3.40	3167	F. Moore, Jr.	Mt. Vernon.	3.29
2993	Henry Reipett.	Milwaukee.	3.40	3167	Martin Hobbs.	Mt. Vernon.	3.40
2994	Abe. Lampier.	Milwaukee.	3.00	3168	Mrs. R. Soe.	Mt. Vernon.	3.50
2995	Wm. Paaf.	Milwaukee.	3.50	3169	J. Mennes.	Mt. Vernon.	3.50
2996	Gus Matdews.	Milwaukee.	3.80	3170	O. Bertnes.	Mt. Vernon.	3.20
2999	C. F. Steele	Milwaukee.	4.00	3171	J. Haack.	Mt. Vernon.	3.00
2998	C. Neotesheim.	Milwaukee.	3.70	3172	—Marly.	Mt. Vernon.	3.40
2999	L. Hartzen	Milwaukee.	4.00	3173	J. Jones.	Mt. Vernon.	3.40
3000	A. I. Grover	Milwaukee.	4.40	3174	M. C. Webber.	Mt. Vernon.	3.40
3001	H. C. Mellhones	Milwaukee.	4.60	3175	J. F. Chandler.	Mt. Vernon.	3.00
3002	C. H. Sackson.	Milwaukee.	4.20	3176	A. Anderson.	Mt. Vernon.	3.60
3002	D. Cussick.	Milwaukee.	3.40	3177	Wm. Millard.	Whitewater.	3.70
3004	M. Mornsey.	Milwaukee.	4.00	3178	M. O'Donnell.	Whitewater.	3.40
				3179	Wm. Ash.	Whitewater.	3.30
				3180	A. Waga.	Whitewater.	3.00
				3181	W. Willey.	Whitewater.	2.70
				3182	J. Wright.	Whitewater.	4.00

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
3183	Frank Wright.	Whitewater	3.80	3255	H. G. Barr.	Berlin	3.20
3184	J. W. Willard.	Whitewater	3.40	3256	Frank Baar	Berlin	3.60
3185	E. Goodnow.	Whitewater	3.80	3257	Hodencel.	Berlin	3.90
3186	G. H. White.	Whitewater	2.80	3258	Goose	Berlin	4.10
3187	W. J. Harris.	Whitewater	3.30	3259	Roland.	Berlin	3.40
3188	J. Harris.	Whitewater	4.06	3260	D. Evans, Jr.	Berlin	3.60
3189	C. Henderson.	Whitewater	3.40	3261	D. Evans, Jr.	Berlin	3.60
3190	A. J. Hackett.	Whitewater	3.80	3262	J. H. Thomas.	Berlin	3.20
3192	C. Koepka.	Clinton	2.70	3263	J. H. Thomas.	Berlin	3.20
3193	C. Koepka.	Clinton	3.50	3264	Widow Jones.	Berlin	3.10
3194	F. Hahn.	Clinton	3.50	3265	Widow Jones.	Berlin	3.10
3195	F. Hahn.	Clinton	2.80	3266	Will Thomas.	Berlin	3.80
3196	C. Hahn.	Clinton	3.90	3267	H. W. Jordan.	Berlin	3.10
3197	C. Hahn.	Clinton	3.70	3268	Vat	Berlin	3.60
3198	C. L. Tuttle.	Clinton	3.50	3269	— Goodwin	Berlin	4.00
3199	C. L. Tuttle.	Clinton	4.30	3270	Peter Bradt.	Manville	3.60
3200	R. Miner.	Clinton	4.10	3271	Vat	Manville	3.50
3201	R. Miner.	Clinton	4.10	3272	John Powers.	Manville	3.50
3202	F. Fonda.	Clinton	3.00	3273	Carl Sill.	Manville	2.70
3203	F. Fonda.	Clinton	3.10	3274	Carl Sill.	Manville	3.30
3204	E. F. Vanderlyn	Clinton	5.50	3175	A. Rosenthal.	Manville	3.00
3205	E. F. Vanderlyn	Clinton	5.50	3276	Mrs. Anthony.	Manville	3.50
3206	W. Thom.	Clinton	3.40	3277	C. Steinbeck.	Manville	3.90
3207	W. Thom.	Clinton	3.40	3278	Skim milk	Manville	0.30
3208	J. H. Burns.	Clinton	3.20	3279	A. Lentz.	Manville	3.50
3209	J. H. Burns.	Clinton	3.30	3280	John McCann.	Manville	3.70
3210	H. F. Gates.	Clinton	3.90	3281	Julius Sawers.	Manville	4.50
3211	H. F. Gates.	Clinton	3.90	3282	Chas. Nichols.	Manville	4.80
3212	J. Walker.	Clinton	3.60	3283	Pat Roach.	Manville	3.10
3213	J. Walker.	Clinton	4.20	3284	Pat Roach.	Manville	3.30
3214	L. Hahn.	Clinton	3.20	3285	John Nicker-son	Manville	3.70
3215	L. Hahn.	Clinton	3.20	3286	John Nicker-son	Manville	3.50
3216	A. E. Reigent.	Clinton	3.20	3287	Butter milk	Manville	.06
3217	A. E. Reigent.	Clinton	3.20	3288	G. W. Johnson	Danville	4.00
3218	C. Rose.	Clinton	3.10	3289	Gus Poig.	Danville	3.50
3219	C. Rose.	Clinton	3.10	3290	Saml. Evans.	Danville	3.70
3220	E. Carpenter.	Clinton	3.40	3291	Ed Parsons.	Danville	3.40
3221	E. Carpenter.	Clinton	3.30	3292	Fred Otto.	Danville	3.40
3222	T. H. Christman	Clinton	3.70	3293	Fred Otto.	Danville	5.60
3223	C. H. Christman	Clinton	2.40	3294	L. Freidman	Danville	3.80
3224	C. Kettlehorn.	Clinton	4.60	3295	W. H. Nicker-son	Danville	3.30
3225	C. Kettlehorn.	Clinton	4.50	3296	H. H. Nicker-son	Danville	4.30
3226	S. F. Martson.	Clinton	3.70	3297	Will Powers.	Danville	3.80
3227	S. F. Martson.	Clinton	3.70	3298	M. Brainard.	Danville	4.70
3228	C. F. Lathers.	Clinton	3.80	3299	John Holtz.	Danville	4.00
3229	C. F. Lathers.	Clinton	3.80	3300	P. Harches.	Danville	3.10
3230	H. A. Christman	Clinton	3.70	3301	Geo. Holtz.	Danville	4.00
3231	H. A. Christman	Clinton	3.70	3302	C. Link.	Danville	3.60
3232	C. McLoughlin	Clinton	3.20	3303	C. W. Murphy.	Danville	4.20
3233	C. McLoughlin	Clinton	3.20	3304	C. Lawrence.	Danville	4.40
3234	J. Lathers.	Clinton	3.49	3305	Joe Daily.	Danville	3.60
3235	J. Lathers.	Clinton	3.40	3306	— Conrad.	Danville	4.00
3236	Separator.	Clinton	0.80	3307	A. Sweet.	Danville	3.80
3237	Vat	Clinton	0.50	3308	W. Wright.	Danville	3.60
3238	W. Hughs.	Berlin	3.40	3309	W. Breyer.	Danville	3.60
3239	W. Hughs.	Berlin	3.40	3310	J. Fox.	Danville	3.80
3240	John Bevins.	Berlin	3.40	3311	H. Haes.	Reedsville	4.20
3241	A. Parsons.	Berlin	3.50	3312	Aug. Bratz.	Reedsville	2.60
3242	A. Parsons.	Berlin	3.80	3313	Aug. Bratz.	Reedsville	4.00
3243	Jack Hart.	Berlin	3.60	3314	H. Nicklson.	Reedsville	3.30
3244	D. W. Evans.	Berlin	3.10	3315	Geo. Utke.	Reedsville	3.70
3245	John Evans.	Berlin	3.00	3316	Chas. Okert.	Reedsville	4.20
3246	D. C. Evans.	Berlin	3.60	3317	Chas. Okert.	Reedsville	3.80
3247	David Davis.	Berlin	3.40	3318	Geo. Geneyet.	Reedsville	3.40
3248	W. H. Davis.	Berlin	3.40	3319	Geo. Geneyet.	Reedsville	4.00
3249	Tom Davis.	Berlin	3.60	3320	Aug. Drahm.	Reedsville	4.50
3250	F. Coleman.	Berlin	3.40	3321	W. Gaese.	Reedsville	3.70
3251	M. Killein.	Berlin	4.20	3322	R. Bubholtz.	Reedsville	3.60
3252	E. M. Williams	Berlin	4.00	3323	R. Kronning.	Reedsville	3.70
3253	W. Owens.	Berlin	3.80				
3254	Nick Hodges.	Berlin	3.00				

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
3324	R. Kroening...	Reedsville...	4.50	3396	A. Meyer.....	Whitewater..	3.40
3325	R. Fradrick...	Reedsville...	4.30	3397	C. Engle.....	Whitewater..	3.70
3326	H. Mertz.....	Reedsville...	3.80	3398	W. Hunt.....	Whitewater..	3.40
3327	H. Mertz.....	Reedsville...	4.80	3399	G. McMillain..	Whitewater..	3.10
3328	Chas. Kroeger..	Reedsville...	3.60	3400	C. M. Clark...	Whitewater..	3.20
3329	F. Haese.....	Reedsville...	4.00	3401	D. Richmond...	Whitewater..	3.00
3330	F. Haese.....	Reedsville...	3.00	3402	F. Wheeler...	Whitewater..	3.70
3331	Aug. Rusch...	Reedsville...	3.90	3403	Jas. Holloway..	Whitewater..	3.80
3332	Aug. Rusch...	Reedsville...	3.00	3404	J. W. Thomp- son.....	Whitewater..	3.80
3333	W. Mertz.....	Reedsville...	3.80	3405	W. Larkins...	Whitewater..	3.50
3334	W. Otto.....	Reedsville...	3.30	3406	F. McMillain..	Whitewater..	4.00
3335	W. Otto.....	Reedsville...	3.60	3407	Williams & Lectke.....	Whitewater..	3.89
3336	J. Rubholtz...	Reedsville...	3.60	3408	D. Kyle.....	Whitewater..	3.60
3337	J. Rubholtz...	Reedsville...	3.20	3409	A. J. Warner...	Whitewater..	4.10
3338	F. Pape.....	Reedsville...	3.30	3410	A. Warner.....	Whitewater..	3.60
3339	C. Bahlman...	Reedsville...	4.00	3411	W. I. McIn- tyre.....	Whitewater..	3.60
3340	C. Bahlman...	Reedsville...	3.60	3412	H. Brockway...	Whitewater..	3.90
3341	C. Schwartz...	Reedsville...	3.50	3413	C. Nickerson..	Whitewater..	3.10
3342	C. Schwartz...	Reedsville...	4.00	3414	E. G. Sharp...	Whitewater..	3.90
3343	T. Frick.....	Reedsville...	4.10	3415	J. Kitsman...	Whitewater..	3.40
3344	John Kleiber..	Reedsville...	3.60	3416	F. Williams...	Whitewater..	3.40
3345	John Kleiber..	Reedsville...	3.00	3417	Fred Miller...	Berlin.....	3.20
3346	Jas. Wines...	Reedsville...	3.40	3418	F. Sviniski...	Berlin.....	3.20
3347	Thos. Kurka...	Reedsville...	3.70	3419	L. Schroeder...	Berlin.....	3.60
3348	James Koch...	Reedsville...	3.00	3420	W. Zeitlow...	Berlin.....	3.80
3349	James Koch...	Reedsville...	3.60	3421	F. Grant.....	Berlin.....	3.70
3350	F. Krueger...	Reedsville...	4.10	3422	L. Abel.....	Berlin.....	4.10
3351	G. Berkholz...	Reedsville...	3.60	3423	Chas. Abel...	Berlin.....	3.50
3352	G. Berkholz...	Reedsville...	3.40	3424	Chas. Abel...	Berlin.....	3.80
3353	H. Koch.....	Reedsville...	3.60	3425	M. Pietroski..	Berlin.....	3.40
3354	A. Ebert.....	Reedsville...	3.40	3426	M. Gynnan...	Berlin.....	3.50
3355	F. Behnke...	Reedsville...	3.00	3427	Jos. Shermer..	Berlin.....	3.70
3356	Mr. Krziknitzki	Reedsville...	3.00	3428	Austin Reats..	Berlin.....	3.40
3357	F. Heinfest...	Reedsville...	2.60	3429	Austin Reats..	Berlin.....	4.00
3358	Chas. Wordel..	Reedsville...	4.10	3430	J. Schroeder...	Berlin.....	4.00
3359	Chas. Wordel..	Reedsville...	3.80	3431	P. Heent.....	Berlin.....	3.40
3360	Theo. Wardel..	Reedsville...	2.80	3432	J. Brooks.....	Berlin.....	3.50
3361	W. Steinpest..	Reedsville...	3.10	3433	M. Mustak...	Berlin.....	3.20
3362	Joseph Ebert..	Reedsville...	3.00	3434	J. Marvin.....	Berlin.....	4.00
3363	Joseph Ebert..	Reedsville...	3.10	3435	Anton Hopp...	Berlin.....	4.00
3364	Mat. Tikalsky.	Reedsville...	4.20	3436	Andrew Hopp..	Berlin.....	4.00
3365	Chas. Jones...	Reedsville...	4.00	3437	J. Scheyer...	Berlin.....	2.60
3366	Louis Herzeg..	Reedsville...	3.40	3438	A. Scheyer...	Berlin.....	2.89
3367	Aug. Thuroro..	Reedsville...	3.30	3439	W. Zilki.....	Berlin.....	4.00
3368	Nick Moses...	Reedsville...	3.80	3440	L. Halpin...	Berlin.....	3.70
3369	Nick Moses...	Reedsville...	3.10	3441	L. Lear.....	Berlin.....	3.00
3370	Wenzel Ward- stick.....	Reedsville...	3.60	3442	L. Lear.....	Berlin.....	4.50
3371	J. Tikalsky...	Reedsville...	3.40	3443	J. Stromski...	Berlin.....	3.60
3372	Wenzel Ziska..	Reedsville...	3.90	3444	M. Kelley...	Berlin.....	3.40
3373	Vat.....	Reedsville...	4.00	3445	M. Kelley...	Berlin.....	3.70
3374	F. Dunn.....	Reedsville...	3.50	3446	L. Strholski..	Berlin.....	4.60
3375	W. Wright.....	Whitewater..	3.30	3447	W. Maleska...	Berlin.....	3.70
3376	W. Wright.....	Whitewater..	3.80	3448	Fred Lear...	Berlin.....	3.10
3377	A. Peterson...	Whitewater..	3.80	3449	J. Lehman...	Berlin.....	3.60
3378	Fred Lock...	Whitewater..	3.70	3450	M. Hoady...	Berlin.....	3.70
3379	Sam Channing	Whitewater..	3.50	3451	J. Disterhoff..	Berlin.....	3.70
3380	N. O. Nelson...	Whitewater..	2.70	3452	J. Disterhoff..	Berlin.....	3.40
3381	J. Carpenter...	Whitewater..	3.80	3453	A. Trochinski.	Berlin.....	3.10
3382	G. Witt.....	Whitewater..	3.80	3454	A. Trochinski.	Berlin.....	3.20
3383	O. Smith.....	Whitewater..	3.50	3455	C. Schroeder..	Berlin.....	3.30
3384	N. W. Nelson...	Whitewater..	3.50	3456	R. Seaman...	Berlin.....	3.60
3385	H. Hansen...	Whitewater..	3.70	3457	Vat.....	Berlin.....	3.40
3386	M. Simonson..	Whitewater..	4.40	3458	Vat.....	Berlin.....	3.40
3387	J. Millis...	Whitewater..	3.00	3459	Jas. Martin...	Omro.....	3.70
3388	H. Boswell...	Whitewater..	3.50	3460	Bennett & Place.....	Omro.....	3.20
3389	H. Boswell...	Whitewater..	3.40	3461	W. Platz, Jr..	Omro.....	3.70
3390	W. Dutton...	Whitewater..	3.20	3462	P. Bussey...	Omro.....	3.30
3391	A. Krahn.....	Whitewater..	3.30	3463	H. Platz.....	Omro.....	3.00
3392	D. Warner...	Whitewater..	2.80	3464	R. Flynn.....	Omro.....	3.49
3393	A. Freeman...	Whitewater..	3.90				
3394	Peter Williams	Whitewater..					
3395	N. Oleson.....	Whitewater..					

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
3465	R. Flynn	Omro	3.80	3531	O. Reddy (N)	Whitewater	4.80
3466	I. Bussey	Omro	3.00	3532	F. S. Wintermute (M)	Whitewater	3.00
3467	I. Weller	Omro	4.00	3533	F. S. Wintermute (N)	Whitewater	3.70
3468	I. Weller	Omro	4.50	3534	G. Anderson	Whitewater	2.40
3469	P. Sullivan	Omro	3.00	3535	Halverson Bros	Whitewater	3.20
3470	J. Gallagher	Omro	3.20	3536	Smith Bros.(M)	Whitewater	3.40
3471	J. Gallagher	Omro	3.70	3537	Smith Bros.(N)	Whitewater	2.70
3472	Frank Miller	Omro	3.40	3538	H. Wright (N)	Whitewater	3.70
3473	Arnold & Martin	Omro	3.00	3539	H. Wright (M)	Whitewater	4.60
3474	G. Boockwood	Omro	3.10	3540	P. Dorr (N)	Whitewater	3.70
3475	J. D. Carpenter	Omro	3.79	3541	P. Door M	Whitewater	3.60
3476	R. Bennett	Omro	3.00	3542	R. H. Smith	Whitewater	3.70
3477	M. Flynn	Omro	2.60		mix	Whitewater	3.50
3478	F. Kuntz	Omro	2.60	3543	Jenks & Waldman	Whitewater	3.80
3479	Vat	Omro	3.20	3544	James Coleman	Whitewater	3.60
3480	F. Shaffer	Muscoda	3.80	3545	G. Smith	Whitewater	4.30
3481	F. Shaffer	Muscoda	3.30	3546	James Fuller	Whitewater	3.60
3482	A. Black	Muscoda	4.00	3547	M. R. Spooner	Whitewater	3.60
3483	A. Black	Muscoda	4.00	3548	John Spears	Whitewater	3.60
3484	J. Hoffmer	Muscoda	3.60	3549	J. F. Cook	Whitewater	3.40
3485	J. Coleman	Muscoda	3.80	3550	Ohas. Garnage	Columbus	3.50
3486	H. Rusqna (M)	Muscoda	3.60	3551	Wm. Cunningham	Columbus	2.90
3487	H. Rusqna (N)	Muscoda	2.60	3552	John Kulkhurst	Columbus	3.30
3488	J. Kratochpills (M)	Muscoda	4.40	3553	Bert Federley	Columbus	3.60
3489	J. Kratochpills (N)	Muscoda	3.60	3554	Wm. Eubanks	Columbus	3.00
3490	G. Bock	Muscoda	3.40	3555	Frank Fox	Columbus	3.80
3491	L. Collard	Muscoda	4.30	3556	Chas. Thiele	Columbus	3.60
3492	J. Bock	Muscoda	5.00	3557	Fred Preim	Columbus	1.40
3493	J. Stedneck	Muscoda	4.00	3558	Geo. Dobbles	Columbus	3.80
3494	J. Saiava	Muscoda	3.40	3559	Fred Boeght	Columbus	3.80
3495	M. Zimiecak	Muscoda	4.20	3560	I. Frick	Columbus	4.20
3496	G. Amhoff	Muscoda	3.60	3561	I. Steinbeck	Columbus	3.80
3499	I. I. Viktor	Muscoda	3.70	3562	P. Firrese	Columbus	3.30
3498	G. Ludgrick	Muscoda	4.00	3563	C. Boldt	Columbus	3.60
3499	-Glegory	Muscoda	3.70	3564	W. Steinbeck	Columbus	3.70
3500	F. B. Fry	Muscoda	3.80	3565	C. Van	Columbus	4.20
3501	Mrs. Jones	Muscoda	4.00	3566	I. Ebert	Columbus	3.50
3502	F. Neff (N)	Muscoda	4.00	3567	N. Richards	Columbus	3.60
3503	F. Neff (M)	Muscoda	4.00	3568	L. Fanger	Columbus	3.90
3504	F. Wanek (M)	Muscoda	3.30	3569	-Selk	Columbus	3.60
3505	F. Wanek (N)	Muscoda	4.20	3570	F. Girkut	Columbus	3.60
3506	J. Collisk (M)	Muscoda	4.30	3571	-Lugals	Columbus	4.00
3507	J. Collisk (N)	Muscoda	4.20	3572	-Studenba'k.	Columbus	3.20
3508	Vat No. 1	Muscoda	3.80	3573	S. D. Slade	Slade's Cor	3.50
3509	J. Bremer	Muscoda	3.00	3574	Herman Schultz	Slade's Cor	3.60
3510	J. W. Viktor	Muscoda	3.40	3575	W. Frahn	Slade's Cor	4.00
3511	J. W. Viktor	Muscoda (N)	2.40	3576	Jo. Smith	Slade's Cor	4.00
3512	N. Orth (M)	Muscoda	3.60	3577	J. Radumz	Slade's Cor	3.80
3513	N. Orth (N)	Muscoda	3.20	3578	A. Swantz	Slade's Cor	3.60
3514	J. B. McIntyre (M)	Muscoda	3.90	3579	G. Resenhomer	Slade's Cor	3.70
3515	J. B. McIntyre (N)	Muscoda	3.40	3580	Aug. Brandes	Slade's Cor	4.00
3516	Vat No. 2	Muscoda	3.40	3581	Otto Inng	Slade's Cor	3.60
3517	Vat No. 2	Muscoda	3.40	3582	Chas. Lemmerhart	Slade's Cor	3.30
3518	S. Swein (N)	Whitewater	3.00	3583	Schultz Bros	Slade's Cor	3.60
3519	S. Swein (M)	Whitewater	4.20	3584	W. Maas	Slade's Cor	3.30
3520	M. Millis (M)	Whitewater	3.00	3585	W. Katzenberger	Slade's Cor	3.20
3521	M. Millis (N)	Whitewater	3.39	3586	W. Drapp	Slade's Cor	3.20
3522	H. C. Millis (N)	Whitewater	3.00	3587	Jas. Hall	Slade's Cor	3.40
3523	H. C. Millis (M)	Whitewater	3.40	3588	Jake Maas	Slade's Cor	4.10
3524	Cummings Bros. (M)	Whitewater	3.30	3589	Herman Kessler	Slade's Cor	3.00
3525	Cummings Bros. (N)	Whitewater	3.80	3590	Andrew Fay	Slade's Cor	3.20
3526	I. Ludkey	Whitewater	2.40	3591	Frank Krome	Slade's Cor	4.00
3527	T. Connerty (N)	Whitewater	3.40				
3528	T. Connerty (M)	Whitewater	3.80				
3529	C. C. Channing	Whitewater	3.59				
3530	O. Reddy (M)	Whitewater	3.00				

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
3592	Lyman Fay ...	Slade's Cor...	3.30	3654	John Fuller ...	Spring Lake (N).....	4.00
3593	Chas. Dys n...	Slade's Cor...	3.40	3655	John Fuller ...	Spring Lake (M).....	3.80
3594	N. Newberry...	Slade's Cor...	3.70	3656	N. Hale mb.	Spring Lake (N).....	3.30
3595	I. Newberry...	Slade's Cor...	3.90	3657	N. Halcomb...	Spring Lake (M).....	5.00
3586	A. Peirce...	Slade's Cor...	3.90	3658	W. Stienke...	Spring Lake...	3.40
3597	John Roberts...	Slade's Cor...	3.60	3659	Aug Anderson	Spring Laee...	2.70
3283	A. Miller...	Slade's C.or...	3.50	3660	Dan Halfor i...	Spring Lake...	3.20
3599	Wm. Testore...	Slade's Cor...	2.60	3661	W. Roberts....	Spring Lake (M).....	4.00
3600	Ben Schultz...	Slade's Cor...	3.20	3662	W. Rob'rts....	Spring Lake (N).....	3.80
3601	John Rambeck	Slade's Cor...	4.40	3663	F. Curtis.....	Spring Lake (N).....	3.20
3602	W. Rodumz...	Slade's Cor...	3.00	3664	F. Curtis.....	Spring Lake (M).....	4.00
3603	H. Busse...	Slade's Cor...	4.40	3665	John Leach...	Spring Lake (M).....	3.80
3604	Ben Karsken...	Slape's Cor...	3.40	3666	John Leach...	Spring Lake (N).....	3.60
3605	Jo. Keckenbusch	Slade's Cor...	3.50	3667	Jas. Larson...	Spring Lake (M).....	3.80
3606	H. David...	Slade's Cor...	3.40	3668	Jas. Larson...	Spring Lake (N).....	3.60
3607	Ben Koanhouse	Slade's Cor...	3.70	3669	A. Parker...	Spring Lake (M).....	3.80
3608	Ben David...	Slade's cor...	3.60	3670	A. Parker...	Spring Lake (N).....	3.30
3609	W. Snyder....	Slade's Cor...	5.20	3671	John Golson...	Spring Lake...	3.40
3610	Chas. Barepangel	Slade's Cor...	3.50	3672	N. Heffernon...	Spring Lake...	4.00
3611	D. W. Crane...	Slade's Cor...	4.20	3673	N. Heffernon...	Spring Lake...	3.60
3612	John H'id...	S'ade's Cor...	3.70	3674	G. Martin.....	Poysippi.....	3.20
3613	Ernest Bruch...	Slade's Cor...	3.20	3675	F. Warner.....	Poysippi.....	3.10
3614	Fred Brusck...	Slade's Cor...	3.20	3676	W. Ostrach...	Poysippi.....	3.30
3616	Frank Funk...	Slade's Cor...	3.60	3677	J. Crowley...	Poysippi (N)...	3.80
3617	F. Bremer...	Slade's C.or...	4.00	3678	J. Crowley...	Poysippi (M)...	3.60
3618	F. Urbelle...	Slade's Cor...	3.80	3679	M. Murphy...	Poysippi.....	2.80
3619	Chas. Buschard	Slade's Cor...	3.60	3680	W. W. Woolman	Poysippi.....	3.40
3620	J. Buschard...	Slade's Cor...	3.40	3681	F. Kerstell...	Poysippi (N)...	2.40
3621	Mat Altrecht...	Sl-ad's Cor...	3.80	3682	F. Kerstell...	Poysippi (N)...	3.20
3622	Jo. Klein...	Slade's Cor...	3.40	3683	F. Reesh.....	Poysippi.....	3.20
3623	Mark Grass...	Slade's Cor...	3.60	3684	A. Rodence...	Poysippi (N)...	2.60
3624	Mrs. Eisenhart	Slade Corners	3.40	3685	A. Rodence...	Poysippi (M)...	3.50
3625	Fred Wramen...	Slade Corners	3.70	3687	P. Castello...	Poysippi.....	2.40
3526	H. Gebek...	Slade Corners	3.90	3688	G. Geherke...	Poysippi (N)...	3.00
3627	A. C. Hering...	Slade Corners	3.40	3689	G. Geherke...	Poysippi (M)...	3.00
3628	V. Brown.....	Slade Corners	3.30	3690	P. Thomas...	Poysippi (N)...	3.00
3629	A. Eihart....	Slade Corners	3.60	3691	P. Thomas...	Poysippi (M)...	3.46
3630	John Lahey...	Slade Corners	3.60	3692	P. Thomas...	Poysippi (M)...	3.60
3631	Harman Bros.	Slade Corners	3.50	3693	G. Johnson...	Poysippi.....	3.60
3632	John Stanton...	Slade Corners	3.90	3694	H. Blaise...	Poysippi.....	3.40
3633	L. Helzhammer	Slade Corners	3.60	3695	G. Smith.....	Poysippi.....	3.00
3634	E. l. Helzhammer	Slade Corners	4.00	3696	T. Pagel....	Poysippi.....	3.00
3635	James White...	Slade Corners	4.00	3697	C. Elert.....	Poysippi.....	3.10
3636	Chas. Getke...	Slade Corners	3.40	3698	H. Gehrke...	Poysippi.....	3.10
3637	Jo Brickner...	Slade Corners	3.60	3699	W. Schowers...	Poysippi.....	2.30
3638	Fred Brenne man	Slade Corners	3.10	3700	A. Chapin...	Poysippi.....	2.80
3639	A. Ganswirt...	Slade Corners	3.60	3701	A. Somers...	Poysippi.....	3.00
3640	South Separator	Slade Corners	.01	3702	N. Pierce....	Poysippi.....	3.20
3641	North Separator	Slade Corners	.01	3703	W. McElroy...	Poysippi.....	2.80
3642	C. Warneck...	Spring Lake (M).....	4.20	3704	E. Brewster...	Poysippi.....	3.20
3643	C. Warneck...	Spring Lake (N).....	3.30	3705	A. Hungerford	Poysippi (N)...	2.80
3644	Wm. Cope....	Spring Lake...	3.00	3706	John McGregor	Poysippi (M)...	3.60
3645	F. Cole.....	Spring Lake...	3.00	3707	John McGregor	Poysippi.....	3.20
3646	W. Scobie....	Spring Lake (M).....	3.80	3708	Paul Geherke...	Poysippi.....	3.20
3647	W. Scobie....	Spring Lake (N).....	3.60	3709	J. J. Richardson	Poysippi (M)...	3.50
3648	Mrs. Curtis...	Spring Lake...	3.00	3710	J. J. Richardson	Poysippi (N)...	2.50
3649	M. Pukoski...	Spring Lake (M).....	4.80	3711	J. Williams...	Poysippi (N)...	3.30
3650	M. Pukoski...	Spring Lake (N).....	3.20	3712	J. Williams...	Poysippi (M)...	3.10
3651	Jas. McBrier ..	Spring Lake...	3.40				
3652	Geo. Johnson...	Spring Lake...	4.60				
3653	Geo. Johnson...	Spring Lake...	3.90				



## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
3713	J. Geherke.....	Poystippi.....	3.20	3787	L. Kalpin.....	Berlin (N)...	3.70
3714	J. Geherke.....	Poysippi.....	3.10	3788	L. Lehr.....	Berlin (M)...	3.70
2715	J. Duffey.....	Poysippi.....	2.60	3789	L. Lehr.....	Berlin (N)...	3.80
3716	J. Ruddy.....	Oshkosh.....	2.70	3790	M. Hooley.....	Berlin (N)...	3.20
3717	P. Fay.....	Oshkosh (N).....	3.04	3791	M. Hooley.....	Berlin (M)...	3.80
3718	P. Fay.....	Oshkosh (M).....	3.80	3792	J. Stroinski.....	Berlin.....	3.00
3719	Dick Abram.....	Oshkosh.....	2.80	3793	Jo Brooks.....	Berlin (N)...	2.80
3720	P. Bellinger.....	Oshkosh.....	3.80	3794	Jo Brooks.....	Berlin (M)...	3.70
3721	P. Clark.....	Oshkosh (M).....	3.60	3795	Chas. Abel.....	Berlin (N)...	3.20
3722	P. Clark.....	Oshkosh (N).....	3.60	3796	Chas. Abel.....	Berlin (M)...	3.60
3723	J. O'Brien.....	Oshkosh (N).....	2.50	3797	Jo Schermer.....	Berlin.....	4.00
3724	J. O'Brien.....	Oshkosh (M).....	3.80	3798	A. Frachinski.....	Berlin (N)...	3.60
3725	D. Ostertog.....	Oshkosh (N).....	3.00	3799	A. Frachinski.....	Berlin (M)...	3.80
3727	D. Ostertog.....	Oshkosh (M).....	3.50	3800	C. Schroedes.....	Berlin.....	3.80
3728	R. Abram.....	Oshkosh (N).....	3.60	3801	J. S-kman.....	Berlin (N)...	3.60
3729	R. Abram.....	Oshkosh (M).....	4.40	3802	J. Sekman.....	Berlin (M)...	4.40
3730	J. Barthels.....	Oshkosh (N).....	3.50	3803	Anton Raatz.....	Berlin (N)...	3.40
3731	J. Barthels.....	Oshkosh (M).....	3.80	3804	Anton Raatz.....	Berlin (M)...	4.00
3732	R. Helm.....	Oshkosh (N).....	4.30	3805	J. Wapsha.....	Berlin.....	4.00
3733	R. Helm.....	Oshkosh (M).....	4.40	3806	Nick Seamon.....	Berlin.....	3.60
3734	E. Lyness.....	Oshkosh.....	3.50	3807	M. Pietraski.....	Berlin.....	3.00
3735	E. Lyness.....	Oshkosh.....	3.10	3808	F. Samoki.....	Berlin.....	3.60
3736	John Thomas.....	Berlin (N).....	3.90	3809	W. Maeks.....	Berlin.....	3.50
3737	John Thomas.....	Berlin (M).....	3.00	3810	Jo Bernhard.....	Berlin.....	3.40
3738	Geo. McClellan.....	Berlin.....	3.40	3811	Chas. Berck.....	Berlin.....	4.50
3739	Joha Kaatz.....	Berlin.....	3.40	3812	Frank May.....	Berlin.....	3.60
3740	Aug. Lentz.....	Berlin (N).....	3.60	3813	Geo. Clark.....	Berlin.....	3.80
3741	Aug. Lentz.....	Berlin (M).....	3.50	3814	John Chippe.....	Berlin.....	4.00
3742	J. W. White.....	Berlin (N).....	3.20	3815	Chris Fassen.....	Berlin.....	4.70
3743	J. W. White.....	Berlin (M).....	3.20	3816	W. H. Otterburn.....	Berlin.....	3.80
3744	F. Stockings.....	Berlin.....	3.40	3817	Geo. Warren.....	Berlin.....	3.60
3745	B. T. Wolcotte.....	Berlin (N).....	3.40	3818	M. Nighos.....	Berlin.....	3.80
3746	B. T. Wolcotte.....	Berlin (M).....	4.20	3819	M. Konkoski.....	Berlin.....	3.20
3747	Cal Thomas.....	Berlin.....	3.20	3820	Geo. Tarrant.....	Berlin.....	3.20
3748	B. T. Brown.....	Berlin (N).....	3.20	3821	D. L. Whitney.....	Berlin.....	3.60
3749	B. T. Brown.....	Berlin (M).....	3.70	3822	L. Noak.....	Berlin.....	3.30
3750	Clark Page.....	Berlin (N).....	3.00	3823	Aug. Seaman.....	Berlin.....	3.40
3751	Clark Page.....	Berlin (M).....	3.10	3824	Jo Lepenski.....	Berlin.....	2.60
3752	A. W. Page.....	Berlin (M).....	3.30	3825	W. Zeigie.....	Berlin.....	4.50
3753	A. W. Page.....	Berlin (N).....	3.00	3826	Frank Smith.....	Berlin.....	3.60
3754	H. D. Smith.....	Berlin (N).....	3.70	3827	Jo Kosmoski.....	Berlin.....	3.80
3755	H. D. Smith.....	Berlin (M).....	4.00	3828	J. Steib.....	Berlin.....	3.70
3756	H. McClellan.....	Berlin (N).....	4.00	3829	John Priski.....	Berlin.....	3.60
3757	H. McClellan.....	Berlin (M).....	4.20	3830	A. Sigfort.....	Berlin.....	3.40
3758	J. Makuoki.....	Berlin.....	2.20	3831	Anna Gark.....	Berlin.....	2.70
3759	E. Mustak.....	Berlin.....	3.00	3832	J. W. Hinman.....	Berlin.....	4.10
3760	L. Abel.....	Berlin.....	3.80	3833	C. Riley.....	Berlin.....	4.00
3761	John Doyle.....	Berlin (N).....	3.60	3834	M. Sennatt.....	Berlin.....	4.00
3762	John Doyle.....	Berlin (M).....	4.10	3835	Aug. Kobuski.....	Berlin.....	3.60
3763	L. Schroeder.....	Berlin.....	3.60	3836	Aug. Laise.....	Berlin.....	3.60
3764	Fred Grame.....	Berlin.....	3.40	3837	Geo. Nagle.....	Berlin.....	4.30
3665	Jno. Schroeder.....	Berlin.....	3.60	3838	M. Monte.....	Berlin.....	3.30
3766	M. Guiman.....	Berlin (N).....	3.00	3839	C. S. Morris.....	Berlin.....	3.00
3767	M. Guiman.....	Berlin (M).....	4.40	3840	L. Scherlong.....	Berlin.....	3.00
3768	Fred Miller.....	Berlin (M).....	3.20	3841	Aug. Mason.....	Berlin.....	3.70
3769	Fred Miller.....	Berlin (N).....	3.30	3842	Wm. McClellan.....	Berlin.....	3.80
3770	F. Marvin.....	Berlin (M).....	4.40	3843	A. Brodski.....	Berlin.....	2.20
3771	F. Marvin.....	Berlin (N).....	3.80	3844	F. Kurkoski.....	Berlin.....	3.30
3772	W. Zedlow.....	Berlin.....	3.30	3845	S. Marshall.....	Berlin.....	3.40
3773	H. Voss.....	Berlin.....	3.50	3846	A. S. Wallace.....	Berlin.....	4.20
3774	Jacob Schries.....	Berlin.....	2.50	3847	M. Glynn.....	Berlin.....	3.40
3775	Anton Schries.....	Berlin (N).....	2.70	3848	Jas Burgoyne.....	Berlin.....	3.60
3776	Anton Schries.....	Berlin (M).....	4.50	3849	N. Spoor.....	Berlin.....	3.30
3777	Anton Hopp.....	Berlin.....	4.20	3850	Pat Egan.....	Berlin.....	3.40
3778	Andro Hopp.....	Berlin.....	4.50	3851	Jim Kirwin.....	Berlin.....	2.60
3779	M. Kelley.....	Berlin.....	3.50	3852	Aug. Zelsski.....	Berlin.....	4.40
3780	Peter Hunt.....	Berlin.....	3.70	3853	John Ahrick.....	Berlin.....	3.70
3781	J. Disterhoff.....	Berlin (N).....	3.40	3854	J. A. Parson.....	Berlin.....	.....
3782	J. Di-terhoff.....	Berlin (M).....	3.70	3855	Aug. Als.....	Berlin.....	.....
3783	L. Straholski.....	Berlin.....	4.25	3856	H. Welch.....	Tibbets.....	3.00
3784	Fred Lehr.....	Berlin.....	3.60	3857	S. Russell.....	Tibbets.....	.....
3785	Wm. Marhaski.....	Berlin.....	3.70	3858	Mrs. Stearns.....	Tibbets.....	3.10
3786	Wm. Zilki.....	Berlin.....	3.80				

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
3859	M. Brag	Tibbets	3.60	3932	F. Reese man	Burlington	3.40
3860	A. Faster	Tibbets	3.60	3933	Mrs. B. Baumis	Burlington	3.60
3861	H. Davis	Tibbets	3.80		ter	Burlington	3.40
3862	W. Bingham	Tibbets	3.80	3934	Chas. Young	Burlington	3.40
3863	J. Cameron	Tibbets	3.50	3935	E. Weimhoff	Burlington	3.40
3864	C. Clemons	Tibbets	3.00	3936	J. Schmidt kaut	Burlington	3.50
3865	Thos. Fountain	Tibbets	3.60	3937	J. Eckert	Burlington	3.30
3866	Chas. Brag	Tibbets	3.20	3938	H. Kittenhagen	Burlington	3.20
3867	W. Rosenhauer	Tibbets	3.30	3939	G. Hidding	Burlington	3.20
3868	J. Benner	Tibbets	3.20	3940	S. Kittenhagen	Burlington	3.20
3869	W. Davis	Tibbets	3.60	3941	C. Madons	Burlington	3.20
3870	M. Dooley	Tibbets	3.60	3942	J. Stohr	Burlington	3.60
3871	S. E. Weaver	Tibbets	3.60	3943	W. Buckholz	Burlington	3.80
3872	R. Moore	Tibbets	4.20	3944	H. Kaiser	Burlington	3.80
3873	Thos. Hicks	Tibbets	3.50	3945	H. Krompski	Burlington	3.90
3874	I. Parsons	Tibbets	3.50	3946	R. Kargur	Burlington	4.10
3875	A. Davis	Tibbets	4.20	3947	J. Leach	Burlington	2.90
3876	J. Landersdale	Tibbets	3.60	3948	P. H. Cunnin-	Burlington	3.00
3877	W. Ellis	Tibbets	4.20		ham	Burlington	3.00
3878	C. Mashies	Tibbets	3.00	3949	Mrs. Cook	Burlington	3.60
3879	A. Harrison	Tibbets	3.80	3950	Frank Weiler	Burlington	3.80
3880	E. Donaldson	Tibbets	3.00	3951	Chas. Schatz	Burlington	3.50
3881	Chas. Desing	Tibbets	3.80	3952	J. Hack	Burlington	4.00
3882	J. Capehart	Tibbets	3.20	3953	J. Rossmiller	Burlington	3.60
3883	P. Jordan	Tibbets	3.60	3953	B. Barthol	Burlington	3.80
3884	R. White	Tibbets	3.70	3955	J. Carnhoff	Burlington	3.80
3885	F. Schubert	Tibbets	3.30	3956	J. C. Hentz	Burlington	3.60
3886	H. August	Tibbets	3.10	3957	G. Eckert	Burlington	3.40
3887	P. Welch	Tibbets	3.60	3958	M. Dauban	Burlington	3.50
3888	B. White	Tibbets	3.70	3959	Geo. Fish	Burlington	3.60
3889	R. Bromley	Tibbets	3.10	3960	B. Ispring	Burlington	4.00
3890	P. McCabe	Tibbets	2.40	3961	Mrs. Grines	Burlington	3.40
3891	J. Tobin	Tibbets	4.20	3962	E. Wilson	Burlington	3.80
3892	W. Tabin	Tibbets	3.50	3963	Robt. Wilson	Burlington	3.40
3793	J. Knutson	Tibbets	4.00	3964	James Pratt	Burlington	3.40
3894	E. Weaver	Tibbets	3.50	3965	Alex Cook	Burlington	3.40
3895	S. Harrington	Tibbets	3.40	3966	W. Kesner	Burlington	3.60
3896	R. Edwards	Tibbets	3.30	3967	W. Klein	Burlington	3.80
3897	John Gilbert	Tibbets	3.30	3968	J. Luprote	Burlington	3.50
3898	John Rod	Tibbets	3.50	3969	Fred When	Burlington	3.50
3899	John Kohn	Reeseville	3.10	3970	D. Cunningham	Burlington	3.70
3900	Chas. Krouse	Reeseville	3.20	3971	C. Lichtfield	Burlington	3.40
3901	J. Goehl	Reeseville	3.80	3972	J. Hoffman	Burlington	3.80
3902	Cnas. Seibing	Reeseville	3.90	3873	D. Warren	Burlington	3.40
3903	L. Beninger	Reeseville	3.60	3974	T. Martin	Burlington	3.50
3904	F. Radtka	Reeseville	3.20	3975	T. Johoke	Burlington	4.00
3905	Geo. Weihard	Reeseville	3.40	3976	A. Teade	Burlington	3.60
3906	L. Young	Reeseville	3.30	3977	W. Hubbard	Burlington	3.30
3907	A. Huebner	Reeseville	3.30	3978	J. Albright	Burlington	3.80
3908	S. Soldner	Reeseville	3.80	3979	G. Winsol	Burlington	3.00
3909	G. Huebner	Reeseville	3.00	3980	J. Boyle	Burlington	3.20
3910	W. Estcheid	Reeseville	3.40	3981	F. Peterson	Appleton (M)	3.80
3911	Pat Kelley	Reeseville	3.60	3982	F. Peterson	Appleton (N)	2.80
3912	— Newburger	Reeseville	3.20	3983	A. Zoune	Appleton (N)	2.00
3913	F. Yerger	Reeseville	3.40	3984	A. Zoune	Appleton (M)	3.40
3914	M. Bechel	Reeseville	3.30	3985	John Mills	Appleton (N)	2.80
3915	C. Yerger	Reeseville	3.30			Appleton (M)	3.70
3916	S. Austin	Reeseville	3.10	3986	F. Glas-nap	Appleton	3.50
3917	Mrs. Geobel	Reeseville	3.20	3987	J. Willhern	Appleton	3.70
3918	H. Yerger	Reeseville	3.40	3988	J. Frekuhlem	Appleton (N)	2.20
3919	H. A. Huebner	Reeseville	3.60	3989	J. Frekuhlem	Appleton (M)	2.30
3920	M. Bennings	Reeseville	2.60	3990	J. Schugh	Appleton (N)	4.00
3921	W. Jarank	Burlington	3.10	3991	J. Schugh	Appleton (M)	4.40
3922	W. J. Fink & Co.	Burlington	3.30	3992	J. Plechain	Appleton (N)	4.80
3923	John Young	Burlington	3.40	3993	J. Plechain	Appleton (M)	3.80
3924	Stonc Bros	Burlington	3.40	3994	J. F. Shutles	Appleton (N)	2.60
3925	Jones & Son	Burlington	3.80	3995	F. J. Shutles	Appleton (M)	2.80
3926	D. Meyer	Burlington	3.20	3996	H. Herman	Appleton (N)	4.20
3927	C. Voss	Burlington	3.20	3997	H. Herman	Appleton (M)	2.40
3928	E. Feate	Burlington	3.40	3998	T. W. Campbell	Appleton (N)	3.40
3929	E. B. Kaiser	Burlington	3.80	3999	T. W. Campbell	Appleton (M)	4.20
3930	J. Kitterhagen	Burlington	3.40	4000	Aaton Uibrech	Appleton	2.80
3931	J. Brasch	Burlington	3.10	4001	J. Kohl	Appleton (M)	4.70

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
4002	J. Kohl	Appleton (N)	2.60	4075	R. Roland	Maple Grove.	3.30
4003	A. Krausa	Appleton (M)	3.00	4076	S. Wegnes	Maple Grove.	4.00
4004	C. Ahrendroth.	Appleton (N)	3.00	4077	P. Strader	Maple Grove.	3.10
6005	C. Ahrendrath.	Appleton (M)	3.66	4078	Mrs. Malaine	Maple Grove.	4.00
4006	A. K. Brainard	Appleton.	3.80	4079	John Carnigan	M'ple Gr'Ve N	3.70
4007	H. Baux	Appleton (N)	3.80			M	3.80
4008	H. Brux	Appleton (M)	3.70	4080	F. Raddock	Maple Grove.	3.30
4009	H. Brux	Applet'n(Mix)	3.60	4081	John Hagan	M'ple Gr'Ve N	2.70
4010	A. Fairbanks.	Appleton (N)	2.40			M	3.20
4011	A. Fairbanks.	Appleton (M)	3.40	4082	Ed. Bram.	M'ple G'Ve(N)	3.30
4012	Chas. Freibery	Appleton.	3.60	4083	Ed. Braum	M'ple G'Ve(M)	3.20
4013	John Merkel	Appleton (M)	3.50	5084	D. Shenan	Maple Grove.	2.80
4014	John Merkel	Appleton (N)	2.80	4085	Jas. Morrissey	Maple Grove.	3.06
4015	E. Clark	Appleton	3.80	4086	John Remeke	M'ple G'Ve(M)	3.50
4016	N. Clark	Appleton	3.70	4087	John Remeke	M'ple G'Ve(N)	3.20
4017	W. Palmbach.	Appleton (M)	3.20	4088	B. S. L. Regan.	Maple Grove.	3.20
4018	W. Palmbach.	Appleton (N)	2.10	4089	Jas. Moraisey	Maple Grove.	3.20
4019	W. Rose	Appleton.	3.40	4090	J. Roserschack	Maple Grove.	3.00
4020	Adam Kahl.	Appleton (N)	3.60	4091	John Sheby	Maple Grove.	3.20
4021	Adam Cahl.	Appleton (M)	4.50	4092	F. Gerachineck	Maple Grove.	3.20
4022	John Kahl	Applet'n(Mix)	2.60	4093	P. Lanes Jr.	Maple Grove.	3.20
4023	John Kahl	Appleton (M)	4.60	4094	P. Henesey	Maple Grove.	3.40
4024	J. Montgomery	Applet'n(Mix)	3.40	4095	P. Henesey	Maple Grove.	3.70
4025	J. Montgomery	Appleton (N)	3.00	4096	Thomas	Maple Grove.	3.10
4026	J. Ulrich	Appleton (N)	2.40	4097	No. 3	Maple Grove.	3.80
4027	J. Ulrich	Appleton (M)	3.80	4098	No. 7	Maple Grove.	3.40
4028	H. Kerwick	Appleton	3.00	4099	F. Bahnk	Reedsville	3.50
4029	Chas. Merkel	Appleton (N)	3.40	4100	E. Pape	Reedsville	3.60
4030	Chas. Merkel	Appleton (M)	3.40	4101	C. Bahlman	Reedsville	3.60
4031	L. Jabez	Appleton (N)	3.20	4102	C. Schwartz	Reedsville	3.50
4032	L. Jabez	Appleton (N)	2.00	4103	T. Fitch	Reedsville	3.70
4033	L. Jabez	Applet'n(Mix)	3.00	4104	C. Freichel	Reedsville	3.20
4034	P. McNamora.	Appleton (N)	2.00	4105	C. Janas	Reedsville	3.70
4035	P. McNamora.	Appleton (M)	3.20	4106	A. Ebert	Reedsville	4.09
4036	J. W. Vents	Appleton.	3.40	4107	T. Wardel	Reedsville	3.80
4037	J. W. Vents	Appleton.	3.60	4108	C. Wardel	Reedsville	4.60
4038	Huntly	Appleton	3.40	4109	C. Wardel	Reedsville	3.10
4039	D. Long	Maple Grove.	3.60	4110	J. F. Brantz	Reedsville	3.00
4040	J. D. Nate	Maple Grove.	4.00	4111	W. Brantz	Reedsville	3.40
4041	J. D. Nate	Maple Grove.	3.10	4112	W. Brantz	Reedsville	4.00
4042	Henry Hill	Maple Grove.	3.20	4113	G. Biskholz.	Reedsville	3.80
4043	Pat O'Hearn	Maple Grove.	3.10	4114	F. Krenger	Reedsville	3.40
4044	A. Johnson	Maple Grove.	3.86	4115	A. Lohwindes.	Reedsville	4.00
4045	W. Garack	Maple Grove.	3.40	4116	J. Spatzick	Reedsville	5.20
4046	P. F. Hackes	Maple Grove.	3.80	4117	J. Spatzick	Reedsville	3.80
4047	R. Comins	Maple Grove.	3.20	4118	J. Kleihes	Reedsville	3.60
4048	Dan Falves	Maple Grove.	3.80	4119	J. Wynies	Reedsville	3.80
4049	J. Snacona	Maple Grove.	3.40	4120	F. Gehrke	Reedsville	3.00
4050	M. Wilhelm	Maple Grove.	3.60	4121	Thos. Gurke	Reedsville	3.50
4051	P. Saues	Maple Grove.	3.70	4122	H. Koch	Reedsville	4.00
4052	J. Adnitz	Maple Grove.	4.20	4123	M. Gelinski	Reedsville	3.60
4053	A. Saues	Maple Grove.	4.30	4124	M. Walsch	Reedsville	4.00
4054	G. Geresch	Maple Grove.	3.60	4125	J. Barny	Reedsville	3.40
4055	M. Baley	Maple Grove.	3.60	4126	James Miller	Reedsville	3.60
4056	J. McCarty	Maple Grove.	4.60	4127	G. Wolf	Reedsville	3.80
4057	W. Rouse	Maple Grove.	3.20	4128	C. Koch	Reedsville	4.10
4058	Jas. Hase	Maple Grove.	3.70	4129	W. Attor	Reedsville	3.80
4059	M. Rennekes	Maple Grove.	3.40	4130	Jas. Eher	Reedsville	3.80
4060	John Zehorick	Maple Grove.	3.40	4131	L. Herzog	Reedsville	3.50
4061	F. Kopolanski.	Maple Grove.	3.40	4132	Mose	Reedsville	4.10
4062	Jas. Kana	Maple Grove.	3.40	4133	Aug. Mhurom.	Reedsville	3.40
4063	John Roland	Maple Grove.	3.30	4134	M. Ukalsky	Reedsville	3.20
4064	M. Roland	Maple Grove.	3.10	4135	W. Wuaalik.	Reedsville	3.00
4065	P. Manges	Maple Grove.	3.50	4136	J. Wuraalik.	Reedsville	3.20
4066	Jerry Duggen	Maple Grove.	3.20	4137	W. Schuska	Reedsville	3.80
4067	Frank Barrone	Maple Grove.	3.20	4138	W. Steinfest.	Reedsville (N)	2.70
4068	M. Doolen	Maple Grove.	3.10	4139	W. Steinfest.	Reedsville (M)	3.60
4069	A. Shmore	Maple Grove.	3.00	4140	Mi's Kisinetzke	Reedsville (M)	4.00
4070	A. Shmore	Maple Grove.	3.20	4141	Mi's Kisinetzke	Reedsville (N)	2.00
4071	Pat Malaine	Maple Grove.	3.30	4142	S. Steinfest.	Reedsville (M)	2.80
4072	Stephen Wilda	Maple Grove.	3.40	4143	S. Steinfest.	Reedsville (N)	2.70
4073	Chas. Brandt	Maple Grove.	3.40	4144	F. Drum	Reedsville	4.00
4074	W. Brandt	Maple Grove.	3.70	4145	Jas. Fikalska.	Reedsville	3.00

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
4146	W. Steinfest...	Reedsville (N)	3.20	4214	Vat No. 1.....	Tustin.....	3.40
4147	W. Steinfest...	Reedsville (N)	3.20	4215	P. Burgener	Tustin.....	3.00
4148	M's. Krisnitszki	Reedsville ...	3.50	4216	M. Munchinur.	Tustin.....	3.20
4149	M's. Krisnitszki	Reedsville ...	3.60	4217	W. Knapp...	Tustin.....	3.80
4150	F. Steinfest...	Reedsville ...	3.40	4218	C. Springer...	Tustin.....	3.40
4151	F. Steinfest...	Reedsville ...	3.40	4219	C. Springer...	Tustin.....	4.40
4151	Pat Cavanaugh	Reedsville ...	3.00	4220	H. Bausman...	Tustin.....	3.40
4163	Tim Kehan	Reedsville ...	3.50	4221	C. Christianson	Tustin.....	4.20
4154	Tim Kehan	Reedsville ...	3.80	4222	C. Christianson	Tustin.....	2.70
				4223	N. Anderson...	Tustin.....	3.00
4155	Dan O'Leary...	Reedsville (N)	3.80	4224	N. Anderson...	Tustin.....	3.90
4156	Dan O'Leary...	Reedsville (M)	4.60	4225	J. Palen.....	Tustin.....	4.50
4157	P. Cavanaugh,			4226	J. Bardel.....	Tustin.....	2.60
	Sr.	Reedsville (N)	3.40	4227	J. Bardel.....	Tustin.....	3.80
4158	P. Cavanaugh,			4228	F. Greening...	Tu-tin.....	3.80
	Sr.	Reedsville (M)	3.60	4229	F. Greening...	Tustin.....	2.70
4159	Gustave Klugs.	Reedsville (N)	3.60	4230	W. Greening...	Tustin.....	3.80
4170	Gustave Klugs.	Reedsville (M)	4.20	4231	W. Greening...	Tustin.....	3.60
4161	John O'Neil...	Reedsville (N)	3.70	4232	A. Krauser...	Tustin.....	2.50
4162	John O'Neil...	Reedsville (M)	4.20	4233	A. Krauser...	Tustin.....	4.20
4163	Tom Fenlan...	Reedsville (N)	3.10	4234	C. Vetts.....	Tustin.....	3.30
4164	Tom Fenlan...	Reedsville (M)	3.80	4235	C. Vetts.....	Tustin.....	4.10
4165	Dan Hussey...	Reedsville (N)	3.80	4236	A. Kratzel...	Tustin.....	3.60
4166	Dan Hussey...	Reedsville (M)	4.00	4237	F. Mullinger...	Tustin.....	3.60
4167	E. Surnane...	Reedsville (N)	3.60	4238	M. Pretnitz...	Tustin.....	3.20
4168	E. Surnane...	Reedsville (M)	4.20	4239	M. Pretnitz...	Tustin.....	3.60
4169	Pat Guthin...	Reedsville (N)	4.10	4240	W. Shilke...	Tustin.....	3.70
4170	Pat Guthin...	Reedsville (M)	3.80	4241	J. Awndings...	Tustin.....	3.20
4171	Pat Fielding...	Reedsville (N)	3.50	4242	J. Awndings...	Tustin.....	4.60
4172	Pat Fielding...	Reedsville (M)	3.80	4243	C. Wischowski.	Tustin.....	2.60
4173	John Duggan...	Reedsville (N)	2.60	4244	C. Wischowski.	Tustin.....	4.20
4174	John Duggan...	Reedsville...	3.80	4245	Vat No. 2.....	Tustin.....	3.50
4175	M. Cavanaugh.	Reedsville...	2.60	4246	F. Herschele...	Tustin.....	3.70
4176	M. Cavanaugh.	Reedsville...	3.80	4247	S. Bies.....	Tustin.....	3.40
4177	James Morrisy	Reedsville...	3.20	4248	W. Springer...	Tustin.....	3.30
4178	James Morrisy	Reedsville...	3.20	4249	Fred Mayhap...	Tustin.....	3.30
4179	A. Keckwepet.	Reedsville...	3.90	4250	Chas. Benke...	Tustin.....	3.80
4180	A. Keckwepet.	Reedsville...	3.70				
4181	A. Keckwepet.	Reedsville...	3.80	4251	F. Woolbraber.	Tustin.....	3.40
4182	T. Georgenson.	Tustin.....	3.90	4252	John Nehring..	Tustin.....	3.40
4183	T. Georgenson.	Tustin.....	3.50	4253	G. Kananberg..	Tustin.....	3.80
4184	L. W. Georgenson	Tustin.....	2.50	4254	L. Steinberg...	Tustin.....	4.40
				3255	Small Kettle...	Tustin.....	3.80
4185	L. W. Georgenson	Tustin.....	4.00	4256	G. Garbert...	Tustin.....	3.90
				4257	C. Greening...	Tustin.....	4.00
4186	M. Brewster...	Tustin.....	3.20	4258	H. Sass.....	Tustin.....	..
4187	M. Brewster...	Tustin.....	4.50	4259	A. Johnson...	Tustin.....	3.20
4188	F. Lauberihorn	Tustin.....	3.20	4260	M. Pretnitz...	Tustin.....	3.40
4189	F. Lauberihorn	Tustin.....	4.40	4261	L. Shierland...	Tustin.....	2.50
4190	J. P. Olson...	Tustin.....	3.60	4262	Chas. Smith...	Tustin.....	4.40
4191	J. Peterson...	Tustin.....	3.20	4263	W. Winter...	Tustin.....	3.20
4192	C. Miller...	Tustin.....	2.60	4264	Laree Kettle...	Tustin.....	3.80
4193	C. Miller...	Tustin.....	3.80	4265	L. Ulrich...	Tustin.....	3.80
4194	F. Lattey...	Tustin.....	3.50	4266	C. Dozel.....	Tustin.....	3.80
4195	F. Lattey...	Tustin.....	3.20	4267	E. Wentzel...	Tustin.....	3.90
4196	G. Freer...	Tustin.....	3.30	4268	E. Wentzel...	Tustin.....	3.80
4197	D. V. Atharn...	Tustin.....	3.80	4269	K. Newschopper.	Tustin.....	3.50
4198	A. Abrams...	Tustin.....	3.00				
4199	A. Abrams...	Tustin.....	3.60	4270	R. Newschopper.	Tustin.....	3.80
4200	F. Lind...	Tustin.....	3.60				
4201	F. Lind...	Tustin.....	4.00	4271	H. Brawn...	Tustin.....	3.60
4202	J. B. Neilson.	Tustin.....	3.40	4272	H. Brawn...	Tustin.....	3.60
4203	May Georgenson	Tustin.....	3.60	4273	E. Karshney...	Tustin.....	3.40
				4274	E. Karshney...	Tustin.....	3.80
4204	J. Gabel.....	Tustin.....	3.40	4275	M. Frick.....	Tustin.....	3.80
4205	J. Gabel.....	Tustin.....	3.20	4276	M. Frick.....	Tustin.....	4.50
4206	A. Kratz.....	Tustin.....	3.00	4277	C. Ulrich...	Tustin.....	4.20
4207	A. Jacobson...	Tustin.....	3.20	4278	C. Ulrich...	Tustin.....	4.00
4208	N. Nelson...	Tustin.....	4.00	4279	J. Vogt.....	Tustin.....	3.70
4209	I. Georgenson.	Tustin.....	3.20	4280	J. Vogt.....	Tustin.....	3.60
4110	H. G. Brown...	Tustin.....	3.60	4281	A. Laabs.....	Tustin.....	2.60
4211	J. C. Mickelson	Tustin.....	3.80	4282	A. Laabs.....	Tustin.....	3.80
4212	P. Abrahams...	Tustin.....	3.00	4283	J. Fink.....	Tustin.....	3.90
4213	P. Abrahams...	Tustin.....	3.80	4284	J. Fink.....	Tustin.....	3.70

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
4285	A. Lautenbach	Tustin .....	3.60	4352	E. Dunbar	St. Nazians ...	3.30
4286	W. Ostrich	Tustin .....	3.00	4353	John Burns	St. Nazians.	3.60
4287	W. Ostrich	Tustin .....	4.30	4354	J. Bargward	St. Nazians.	3.10
4288	F. Zittow	Tustin .....	3.60	4355	Mrs. I. Knox	St. Nazians.	2.80
4289	A. Otto	Tustin .....	3.60	4356	R. Knox	St. Nazians.	3.00
4290	Fred Barhn	Tustin .....	3.90	4357	John Dunbar	St. Nazians.	3.10
4291	Fred Barhn	Tustin .....	3.70	4359	C. Hangen	St. Nazians.	3.70
4292	F. Barttet.	Tustin .....	4.60	4358	Abe Wick	St. Nazians.	3.30
4293	F. Barttet.	Tustin .....	3.00	4360	F. Grimm	Mishicotte	3.40
4294	C. Scherland.	Tustin .....	3.60	4461	E. Pelkey	Mishicotte	3.60
4295	C. Scherland.	Tu-tin .....	4.00	4362	C. Weinfearthur	Mishicotte	3.20
4296	Mrs. Fradricks	Tustin .....	4.60	4363	Mrs. Fountain	Mishicotte	3.60
4297	A. Brandenberg	Tustin .....	3.60	4364	F. Greavs	Mishicotte	3.20
4298	A. Brandenberg	Tustin .....	3.20	4365	Mrs. Harris	Mishicotte	4.40
4299	W. Borchardt.	Tustin .....	3.40	4366	E. Samze	Mishicotte	3.20
4300	L. Gutt	Tustin .....	3.00	4367	C. Niegett	Mishicotte	2.80
4301	I. Gillich	Ackerville ..	4.00	4368	E. Crate	Mishicotte	3.00
4302	L. Holrobenstien	Ackerville ..	4.60	4369	W. Blum	Mishicotte	3.30
4303	C. Albrecht	Ackerville ..	4.40	4370	F. Bauyneitt	Mishicotte	3.50
4304	Aug. Zarmisch	Ackerville ..	4.40	4371	J. Brushy	Mishicotte	3.50
4305	G. Weichel	Ackerville ..	3.60	4372	W. Schmit	Mishicotte	3.80
3306	W. Kuhaupt.	Ackerville ..	3.60	4373	W. Rhine	Mishicotte	2.60
4306	A. Happle	Ackerville ..	3.20	4374	I. Shubetes	Mishicotte	3.00
4308	I. Eswielder	Ackerville ..	3.80	4375	F. Pannyneitt	Mishicotte	3.80
4309	H. Kortz	Ackerville ..	3.80	4376	H. Ostrich	Mishicotte	3.90
4310	F. Mueller	Ackerville ..	4.03	4377	N. Koch	Mishicotte	3.30
4311	J. Schlinger	Ackerville ..	3.80	4378	J. Churney	Mishicotte	2.80
4312	L. Guenther	Ackerville ..	4.20	4379	J. Kolofki	Mishicotte	3.60
4313	H. Hardnick	Ackerville ..	3.80	4380	P. Kanfmon	Mishicotte	3.20
4314	H. Schmidt.	Ackerville ..	4.40	4381	Mrs. Gindes.	Mishicotte	3.80
4315	A. Kartz.	Ackerville ..	4.70	4383	F. Frier	Mishicotte	3.60
4316	P. Weber	Ackerville ..	3.80	4383	G. Ginder	Mishicotte	3.60
4317	P. Kartz	Ackerville ..	4.40	4384	H. Keil	Mishicotte	2.50
4318	P. Schmit	Ackerville ..	3.40	4385	G. Pelkey	Mishicotte	3.40
4319	H. McNeil	Ackerville ..	4.40	4386	I. Tarsen	Mishicotte	3.30
4320	J. Kratz	Ackerville ..	3.50	4387	C. Brauchard.	Mishicotte	6.60
4321	Fred Becker.	Ackerville ..	3.80	4388	F. Westgate.	Mishicotte	3.30
4322	B. Krohles.	Ackerville ..	4.20	4389	W. Kroufarst.	Mishicotte	2.60
4323	A. Zeiger	Ackerville ..	4.10	4390	A. Tracker	Mishicotte	2.00
4324	G. Sofi	Ackersville ..	3.10	4391	A. C. Terns.	Mishicotte	3.60
4325	H. Sofi	Ackersville ..	4.40	4392	F. Ruelle	Mishicotte	3.00
4326	Bargenlagen	Ackersville ..	3.40	4393	B. Lenkson	Mishicotte	2.60
4327	Ellis Grover	Omro .....	4.10	4394	H. Wuhlf	Mishicotte	3.00
4328	J. Bussey	Omro .....	4.00	4395	N. Prossen	Mishicotte	3.00
4329	F. Carpenter	Omro .....	3.20	4396	Mrs. Fi-ch	Mishicotte	2.90
4330	D. Winchester.	Omro .....	3.90	4397	I. Thurston	Mishicotte	3.40
4331	Rockwood	Omro .....	4.30	4398	C. Rtza	Mishicotte	3.10
4332	Tom Elliott.	Omro .....	3.10	4399	J. Sueier	Mishicotte	2.90
4333	J. Martin	Omro .....	3.40	4400	W. Perontka	Mishicotte	2.40
4334	Fred Kuntz	Omro .....	3.60	4401	W. Greenwood	Mishicotte	3.30
4335	T. Bussey	Omro .....	3.40	4402	A. Ronda	Mishicotte	2.30
4336	Wm. Place.	Omro .....	3.80	4403	S. Rebarly	Mishicotte	3.40
4337	Bennett & Place.	Omro .....	3.40	4404	Mrs. Robertson	Mishicotte	2.80
4338	John Welles.	Omro .....	3.20	4405	A. Halverson.	Mishicotte	2.80
4339	A. Bennett.	Omro .....	3.60	4406	A. Theison	New London.	3.60
4340	M. Flynn.	Omro .....	4.10	4407	A. Theison	New London.	4.50
4341	Arnold & Morton.	Omro .....	2.60	4408	C. Hidde	New London.	4.40
4342	J. Gallaghes	Omro .....	2.40	4409	C. Hidde	New London.	3.00
4343	Fred Lutzki.	St. Nazians.	2.80	4410	L. Kelly	New London.	3.70
4344	M. Dundas	St. Nazians.	3.20	4411	A. Lehman	New London.	3.40
4345	Chas. Lutzke.	St. Nazians.	3.40	4412	A. Lehman	New London.	3.30
4346	W. Lenz	St. Nazians.	3.20	4413	H. Rubson	New London.	3.80
4347	A. Lenz	St. Nazians.	3.10	4414	H. Rubson	New London.	3.60
4348	J. Briemmes.	St. Nazians.	2.50	4415	H. Rubson	New London.	4.20
4349	H. Luthe.	St. Nazians.	3.10	4416	R. Hidde	New London.	3.60
4350	M. Crowe	St. Nazians.	2.50	4417	R. Hidde	New London.	3.60
4351	Wm. Crowe.	St. Nazians.	3.20	5418	Ned Mulvey	New London.	3.80
			3.40	4419	H. McDonald.	New London.	3.00
			3.30	4420	H. McDonald.	New London.	4.60
			3.80	4421	Pat Foy	New London.	3.70
				4422	Pat Foy	New London.	3.30

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	But. ter Fat.	Lab. No.	From whom taken.	Address.	But- ter Fat.
4423	C. Fesmanich.	New London..	4.10	4495	J. Krish .....	Manitowoc ....	2.00
4424	C. Fesmanich.	New London..	3.60	4496	W. Chavals .....	Manitowoc ....	3.50
4425	Mrs. Rubsam ..	New London..	3.70	4497	J. Fiedless .....	Manitowoc ....	3.00
4426	W. Rudam .....	New London..	3.60	4498	C. Krish .....	Manitowoc ....	2.30
4427	W. Rudham .....	New London..	3.40	4499	F. Vamsh .....	Manitowoc ....	2.80
4428	J. Kraeck .....	New London..	3.70	4500	J. Jench .....	Manitowoc ....	2.30
4429	W. Lehmon .....	New London..	3.20	4501	J. Dornal .....	Manitowoc ....	3.00
4430	E. Elsmar .....	New London..	3.30	4502	A. Zeman .....	Manitowoc ....	2.50
4431	E. Elsmar .....	New London..	2.60	4503	W. Hueck .....	Manitowoc ....	3.00
4432	C. Mass .....	New London..	4.50	4504	W. Cerney .....	Manitowoc ....	3.00
4433	C. Mass .....	New London..	2.80	4505	James Dua- rika .....	Manitowoc ....	3.80
4434	W. Snook .....	New London..	3.60	4506	Fred. Jonges .....	Manitowoc ....	3.20
4435	L. Rolf .....	New London..	2.70	4507	J. Doubek .....	Manitowoc ....	3.60
4436	L. Rolf .....	New London..	3.40	4508	J. Zelinski .....	Manitowoc ....	2.80
4437	F.O. Messeng'r ..	New London..	3.20	4509	R. Zahn .....	Rosencrans ..	3.40
4438	F.O. Messeng's ..	New London..	3.00	4510	M. Klint .....	Rosencrans ..	4.00
4439	E. Westphall ..	New London..	3.60	4511	James Reedy ..	Rosencrans ..	3.60
4440	E. Westphall ..	New London..	1.90	4512	C. J. Ludtka .....	Rosencrans ..	3.40
4441	C. Haha .....	New London..	2.60	4513	C. Ludtka .....	Rosencrans ..	3.40
4442	C. Haha .....	New London..	2.60	4514	Robt. Olf .....	Rosencrans ..	3.60
4443	L. Leach .....	New London..	3.80	4515	W. J. Schliz .....	Rosencrans ..	3.10
4444	L. Leach .....	New London..	3.90	4516	R. Konopp .....	Rosencrans ..	3.80
4445	W. Rabenhorst ..	Manitowoc .....	2.40	4517	H. Backer .....	Rosencrans ..	3.00
4446	F. Skoor .....	Manitowoc .....	2.40	4518	Thos. Pateska ..	Rosencrans ..	3.20
4447	W. Skoor .....	Manitowoc .....	2.30	4519	Jno. Hopeslee ..	Rosencrans ..	4.29
4448	Pat Hewett .....	Manitowoc .....	4.30	4520	John Ichman .....	Rosencrans ..	3.40
4449	Mrs. Zarnba .....	Manitowoc .....	3.40	4521	W. Ingelbracht ..	Rosencrans ..	3.50
4450	J. Faicher .....	Manitowoc .....	2.20	4522	Anz Gauges .....	Rosencrans ..	3.50
4451	A. Faiches .....	Manitowoc .....	8.50	4523	J. Hammorek .....	Rosencrans ..	3.40
4452	Mrs. Danbeck ..	Manitowoc .....	3.20	4524	Julius Juse .....	Rosencrans ..	3.90
4453	Pat Ready .....	Manitowoc .....	3.00	4525	H. Gages .....	Rosencrans ..	3.90
4454	D. Melgami .....	Manitowoc .....	3.60	4526	Chas. Knuth .....	Bosencrans ..	3.20
4455	F. Calta .....	Manitowoc .....	3.60	4527	A. Kamppost .....	Rosencrans ..	3.60
4456	Joseph Kubs .....	Manitowoc .....	2.60	4528	W. Schly .....	Rosencrans ..	3.40
4457	John Hewett .....	Manitowoc .....	3.00	4529	J. Olf .....	Rosencrans ..	2.80
4458	F. Fraunnaak ..	Manitowoc .....	2.80	4530	Chas. Wagner .....	Rosencrans ..	3.20
4459	Joseph Hastak ..	Manitowoc .....	3.30	4531	Robt. Habeck .....	Rosencrans ..	3.60
4460	F. Hastak .....	Manitowoc .....	3.80	4532	Pat Fagen .....	Rosencrans ..	2.80
4461	F. Albrecht .....	Manitowoc .....	4.40	4533	F. Skoos .....	Rosencrans ..	4.00
4462	A. Albrecht .....	Manitowoc .....	4.40	4534	J. Schly .....	Rosencrans ..	3.40
4463	F. Marek .....	Manitowoc .....	2.60	4535	Aug. Bruce .....	Rosencrans ..	3.60
4464	W. Danbek .....	Manitowoc .....	3.20	4536	A. Kruger .....	Rosencrans ..	3.00
4465	F. Anderson .....	Manitowoc .....	2.60	4537	F. Sladtka .....	Rosencrans ..	2.90
4466	J. Zigler, Jr. ....	Manitowoc .....	3.20	4538	John Sladtka .....	Rosencrans ..	3.00
4467	Joseph Zigler ..	Manitowoc .....	3.40	4539	M. Meztina .....	Rosencrans ..	3.20
4468	J. Tuma .....	Manitowoc .....	2.80	4540	O. Knuth .....	Rosencrans ..	3.40
4469	W. Tuma .....	Manitowoc .....	3.00	4541	Wm. Butth .....	Rosencrans ..	3.50
4470	I. Kohaut .....	Manitowoc .....	3.00	4542	Chas. Gauka .....	Rosencrans ..	3.30
4471	I. Zamba .....	Manitowoc .....	3.70	4543	Wm. Buss .....	Rosencrans ..	3.30
4472	J. Holly .....	Manitowoc .....	3.00	4544	F. Bakenhurst ..	Rosencrans ..	3.80
4473	I. Murek .....	Manitowoc .....	3.00	4545	Chas. Hobeck ..	Rosencrans ..	4.20
4474	R. Zeman .....	Manitowoc .....	2.40	4546	F. Hobeck .....	Rosencrans ..	3.00
4475	Jacob Kubs .....	Manitowoc .....	3.60	4547	Sacob Bergel .....	Rosencrans ..	2.10
4476	J. Krycarek .....	Manitowoc .....	3.40	4548	J. Wainika .....	Rosencrans ..	4.00
4477	W. Krycarek .....	Manitowoc .....	2.60	4549	F. Shenanop .....	Rosencrans ..	2.80
4478	K. Krycarek .....	Manitowoc .....	3.20	4550	J. Jhemanak .....	Rosencrans ..	2.80
4479	I. Zeman .....	Manitowoc .....	2.00	4551	W. E. Sturde- vant .....	Delevan .....	3.60
4480	J. Peck .....	Manitowoc .....	3.00	4552	Jos. Ege .....	Delevan .....	3.20
4481	J. Kalister .....	Manitowoc .....	3.50	4553	J. Cummings ..	Delevan .....	3.50
4482	G. Kubbs .....	Manitowoc .....	4.00	4554	J. Ablen .....	Delevan .....	3.40
4483	A. Simon .....	Manitowoc .....	3.20	4555	C. Ives .....	Delevan .....	3.10
4484	F. Husa .....	Manitowoc .....	2.60	4556	J. W. Schmidt ..	Delevan .....	4.00
4485	W. Sasta .....	Manitowoc .....	3.00	4557	H. Hulz .....	Delevan .....	3.69
4486	J. Ruby .....	Manitowoc .....	4.60	4558	C. Prudence .....	Delevan .....	3.50
4487	P. Kumik .....	Manitowoc .....	1.40	4559	R. Whalen .....	Delevan .....	3.20
4488	G. Bruss .....	Manitowoc .....	3.40	4560	Geo. Cramer .....	Delevan .....	4.00
4489	J. Hadacek .....	Manitowoc .....	3.00	4561	H. Davis .....	Delevan .....	3.80
4490	F. Opicka .....	Manitowoc .....	3.00	4562	Mrs. C. H. Mc- Carty .....	Delevan .....	4.30
4491	Opicka .....	Manitowoc .....	3.70	4563	Frank Sturde- vant .....	Delevan .....	3.40
4492	Mr. Yureb. ea. ....	Manitowoc .....	3.20				
4493	E. Suestas .....	Manitowoc .....	4.00				
4494	F. Krich .....	Manitowoc .....	3.60				

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
4564	P. B. Wright..	Delevan .....	3.20	4635	John Newell..	Brooklyn .....	3.40
4565	R. Simmons..	Delevan .....	2.09	4636	John Norton..	Brooklyn .....	3.20
4566	A. Ormorad..	Delevan .....	3.50	4637	Mrs. Flood ..	Brooklyn .....	3.60
4567	J. M. Fields..	Delevan .....	4.00	4638	Mrs. Burns ..	Brooklyn .....	3.80
4568	Henry Fisk..	Delevan .....	2.80	4639	John Looney ..	Brooklyn .....	3.30
4569	F. Pounder..	Delevan .....	3.80	4640	Bert Deremes ..	Brooklyn .....	3.60
4570	Geo. Dixon..	Delevan .....	3.80	4641	Ed. Ruty .....	Brooklyn .....	3.60
4571	R. Ives .....	Delevan .....	3.40	4642	A Baldwin .....	Brooklyn .....	4.80
4572	Buttermilk ..	Delevan .....	1.20	4643	Cash Fuller ..	Brooklyn .....	3.00
4573	A. Ives .....	Delevan .....	4.00	4644	E. Montgomery	Brooklyn .....	3.60
4574	A. Rinke .....	Delevan .....	3.50	4645	H. O'Brien ..	Brooklyn .....	3.20
4575	M. Kean .....	Delevan .....	3.49	4646	L. Amador ..	Brooklyn .....	3.29
4576	Chas. Martin..	Delevan .....	3.40	4647	H. P. Stark-weather	Brooklyn .....	3.20
4277	Jas. O'Brien..	Delevan .....	2.60	4648	G. S. Smith ..	Brooklyn .....	3.60
4578	C. Keaston..	Delevan .....	3.70	4649	W. Smith .....	Brooklyn .....	3.30
4579	J. C. Ferris..	Delevan .....	3.40	4650	P. Deremer, Sr.	Brooklyn .....	3.60
4580	Dan O'Brien..	Delevan .....	3.20	4651	P. Deremer, Jr.	Brooklyn .....	3.40
4581	H. Halev .....	Delevan .....	3.40	4652	C. Peterson ..	Brooklyn .....	3.50
4582	Dick Daley ..	Delevan .....	3.80	4653	H. Tillie .....	Brooklyn .....	3.20
4583	O. Howder ..	Delevan .....	3.60	4654	C. A. Roberts ..	Brooklyn .....	3.20
4584	T. Fages .....	Delevan .....	3.40	4655	Hans Ol-son ..	Brooklyn .....	3.00
4585	W. A. Empey..	Belmont .....	3.10	4656	J. Jacobson ..	Brooklyn .....	3.40
4586	A. Bratz .....	Bing .....	3.60	4657	Ezra Doolittle	Brooklyn .....	4.70
4587	G. Teberst ..	Bing .....	3.60	4653	John Doyle ..	Brooklyn .....	3.40
4588	G. Kinger .....	Bing .....	3.60	4659	Conrad Hanson	Brooklyn .....	3.40
4589	W. Ringer ..	Bing .....	3.60	4660	Mike Doyle ..	Brooklyn .....	3.40
4590	G. Paul .....	Bing .....	4.00	4661	G. Ingraham ..	Brooklyn .....	3.70
4591	D. Rens .....	Bing .....	3.50	4662	R. Leversorn ..	Brooklyn .....	4.00
4592	Mrs. Beard ..	Bing .....	3.00	4663	T. P. Chapin ..	Brooklyn .....	3.00
4593	K. Gustpeldt.	Bing .....	3.80	4664	C. Fairbanks..	Brooklyn .....	3.40
4594	G. Caseman ..	Bing .....	3.80	4665	G. Ferris .....	Brooklyn .....	3.00
4595	W. Stoddardt.	Bing .....	3.60	4666	James Stewart	Brooklyn .....	3.00
4596	C. Calkins ..	Bing .....	3.80	4667	John Hull .....	Brooklyn .....	3.50
4597	G. Vangalen ..	Bing .....	3.60	4668	Clate Smith ..	Brooklyn .....	3.70
4598	W. D. Petree..	Bing .....	4.00	4669	Eugene Smith.	Brooklyn .....	3.50
4599	T. Stoddardt.	Bing .....	4.00	4670	Sargent & Fox.	Brooklyn .....	3.20
4600	John Beam ..	Bing .....	3.40	4671	Geo. Rollins..	Brooklyn .....	3.60
4601	A. Menke .....	Bing .....	3.50	4672	W. Sands .....	Brooklyn .....	3.20
4602	J. Lemnese ..	Bing .....	3.60	4673	Chas. Simons..	Brooklyn .....	3.50
4603	B. Schouten ..	Bing .....	4.00	4674	Owen Doyle ..	Brooklyn .....	3.80
4604	Fred Krenkey ..	Bing .....	3.60	4675	W. Naukeeville	Brooklyn .....	3.00
4605	S. Radtke .....	Brandon .....	2.40	4676	W. Fitzgerald.	Brooklyn .....	3.60
4606	W. Strahles ..	Brandon .....	3.20	4677	Ringham .....	Brooklyn .....	3.60
4507	C. Stephen ..	Brandon .....	3.60	4678	M. Delby .....	Brooklyn .....	3.20
4608	C. Heller .....	Brandon .....	3.29	4679	John Yarwood	Brooklyn .....	3.20
4609	H. R. O'Marra	Brandon .....	3.60	4680	Geo. Kiser .....	Brooklyn .....	3.60
4610	F. Wilke .....	Brandon .....	3.80	4681	Can O'Brien ..	Brooklyn .....	3.70
4611	Aug. Radtke ..	Brandon .....	3.00	4682	W. Shoatts ..	Brooklyn .....	3.70
4612	J. B. Frittle ..	Brandon .....	2.80	4683	J. Baldwin ..	Brooklyn .....	3.20
4613	H. Kuwick .....	Brandon .....	3.20	4684	Chas. Hoak ..	Brooklyn .....	3.20
4614	J. Fitzpatrick	Brandon .....	4.00	4685	Chas. Brown ..	Brooklyn .....	3.40
4615	P. Wilson .....	Brandon .....	3.60	4686	John Owens, Sr	Brooklyn .....	2.80
4616	Mrs. Fallon ..	Brandon .....	3.20	4687	S. O'Brien ..	Brooklyn .....	4.20
4617	W. Bakke .....	Brandon .....	3.40	4688	P. Paulsen ..	Brooklyn .....	3.60
4618	Mrs. Hooley ..	Brandon .....	3.40	4689	Chas. Baldwin.	Brooklyn .....	3.60
4619	Robt. Rakan ..	Brandon .....	3.30	4690	Martin Mason ..	Brooklyn .....	3.60
4620	A. N. Weaver ..	Brandon .....	4.10	4691	P. McCormick.	Brooklyn .....	3.60
4621	E. F. Upard ..	Brandon .....	3.20	4692	H. Jansen .....	Brooklyn .....	3.00
4622	Fr-d Smith ..	Brandon .....	3.80	4693	E. Bullock ..	Brooklyn .....	3.30
4623	A. Bly .....	Brandon .....	3.60	4694	N. S. Greenman	Brooklyn .....	3.80
4624	John Scott ..	Brandon .....	3.60	4695	John Owens, Jr	Brooklyn .....	3.60
4625	Ed. Wilsey ..	Brandon .....	3.60	4696	Matt Farrell ..	Brooklyn .....	3.00
4526	Aug. Publice..	Brandon .....	3.80	4697	L. Lorenson ..	Brooklyn .....	4.00
4627	J. Renway ..	Brooklyn .....	3.40	4698	F. Johnson ..	Brooklyn .....	3.40
4628	W. Benson ..	Brooklyn .....	3.40	4699	C. Richardson.	Brooklyn .....	3.80
4629	John Roristors	Brooklyn .....	3.30	4700	J. C. Deverrux	Brooklyn .....	3.80
4630	Peter Newell.	Brooklyn .....	3.00	4701	H. C. Deveraux	Brooklyn .....	3.60
4631	C. Christian-son	Brooklyn .....	3.00	4702	M. Forsyth ..	Brooklyn .....	3.00
4632	W. Coats .....	Brooklyn .....	3.20	3703	R. Larson .....	Brooklyn .....	3.00
4633	Smith & Bennett	Brooklyn .....	3.40	4704	E. H. Johnson.	Brooklyn .....	3.20
4634	Kuchmuth & Co.	Brooklyn .....	3.20				

## ANALYSES OF MILK—Continued.

Lab. No.	From Whom Taken.	Address.	But-ter Fat.	Lab. No.	From whom taken.	Address.	But-ter Fat.
4705	H. Brown	Brooklyn	3.60	4794	A. C. Draper	Prospect	5.00
4706	Ed Erickson	Brooklyn	4.10	4795	I. Kaw	Prospect	3.80
4707	G. Jehu	Brooklyn	3.60	4796	Theo. Burback	Prospect	3.30
4708	John Kilvin	Brooklyn	3.20	4797	Willis Gilbert	Prospect	3.00
4709	M. Schultz	Brooklyn	3.20	4798	W. McNeil	Prospect	3.90
4710	G. F. Bigelow	Brooklyn	3.60	4799	J. Killips	Prospect	3.60
4711	F. Schultz	Brooklyn	3.00	4800	W. McLeads	Prospect	4.20
4712	R. Christiauson	Brooklyn	3.60	4801	W. A. Foster	Prospect	3.40
4713	L. Graves	Brooklyn	3.20	4802	Samuel Foster.	Prospect	3.60
4714	F. Gunup	Brooklyn	3.30	4803	F. Fans	Prospect	3.40
4715	P. S. Peterson	Brooklyn	3.10	4804	A. J. Monroe	Prospect	4.00
4716	Robert Curtis	New Lisbon	3.20	4805	Geo. Casper	Prospect	3.80
4717	Chas. Smart	New Lisbon	3.40	4806	Herman Krahn	Prospect	3.70
4718	H. E. Elmer	New Lisbon	3.60	4807	Nick Orph	Prospect	3.80
4719	H. McCumber	New Lisbon	2.20	4808	John Lannon	Prospect	3.60
4720	John Witts	New Lisbon	3.00	4809	M. Beres	Prospect	3.60
4721	N. McCumber	New Lisbon	3.60	4810	Chris. Battches	Prospect	3.20
4722	J. C. Martin	New Lisbon	4.60	4811	Fletcher Bros	Prospect	3.60
4723	S. McCumber	New Lisbon	2.60	4812	C. C. Vanden- aecker	Prospect	4.20
4724	S. McCumber	New Lisbon	3.40	4813	A. Schuartz	Prospect	4.00
4725	R. Cantfany	New Lisbon	3.60	4814	I. Casper	Prospect	3.80
4726	Robt. Marshall	New Lisbon	3.60	4815	H. Zehn	Prospect	3.50
4727	Mrs. A. Nuttle	New Lisbon	2.00	4816	Chris. Behein	Prospect	4.60
4728	Mrs. A. Nuttle	New Lisbon	2.40	4817	John Behein	Prospect	4.50
4729	A. Lahrbows	New Lisbon	3.50	4818	Geo. Luber	Prospect	3.80
4730	A. Bednarz	New Lisbon	3.60	4819	J. Schneider	Prospect	3.20
4731	W. Marshall	New Lisbon	3.80	4720	H. Casper	Prospect	3.70
4732	L. Norton	New Lisbon	3.40	4721	J. A. Clark	Big Bend	3.70
4733	F. C. Colvers	New Lisbon	3.40	4723	F. Kerhl	Big Bend	4.00
4734	J. Biers	New Lisbon	3.40	4728	P. Jacory	Big Bend	3.50
4735	McKay	New Lisbon	4.40	4724	L. Dewar	Big Bend	3.50
4736	C. Krouse	New Lisbon	3.00	4725	I. K. Fraser	Big Bend	3.50
4737	M. Lilly	New Lisbon	3.40	4726	J. McKenna	Big Bend	4.00
4738	C. Richards	New Lisbon	3.20	4727	B. Peacock	Big Bend	3.70
4739	C. Mead	New Lisbon	5.00	4728	C. W. Rose	Big Bend	3.80
4740	W. P. Lewis	New Lisbon	3.40	4729	H. Money	Big Bend	3.70
3741	John Northcott	New Lisbon	3.00	4730	G. Kutean	Big Bend	3.80
4742	J. S. Northcott	New Lisbon	3.20	4731	A. Filtz	Big Bend	3.50
4743	Wm Barnes	New Lisbon	4.00	4732	M. Martin	Big Bend	3.80
4744	L. Dotz	New Lisbon	4.20	4733	Pember Bros	Big Bend	3.80
4745	J. McMullen	New Lisbon	3.80	4734	L. Rich	Big Bend	3.40
4746	N. Hess	New Lisbon	3.20	4735	A. Beiffuss	Big Bend	3.60
4747	J. Daniels	New Lisbon	3.00	4736	Sam Kingston	Big Bend	4.40
4748	M. Hayes	New Lisbon	3.00	4737	M. Foley	Big Bend	3.80
4749	H. B. Norton	New Lisbon	4.00	4738	J. Manney	Big Bend	3.30
4750	A. Becker	New Lisbon	3.60	4739	Stobber & Co.	Big Bend	4.40
4751	J. Stinson	New Lisbon	3.40	4740	J. Madia	Big Bend	3.80
4752	W. Southern	New Lisbon	3.20	4741	M. Meathe	Big Bend	3.60
4753	J. H. Curtis	New Lisbon	4.60	4842	F. Vags	Big Bend	3.70
4754	Daniel Grary	New Lisbon	4.60	4843	C. Ockles	Big Bend	3.80
4755	E. Coak	New Lisbon	3.40	4844	E. Vanden- macker	Big Bend	3.20
4756	A. W. Fobes	New Lisbon	3.40	4845	J. Carney	Big Bend	3.20
4758	H. Martenson	New Lisbon	3.50	4846	G. P. Dukleth	Big Bend	3.30
4776	F. Battendorp	Prospect	3.40	4847	C. Lidtka	Big Bend	3.90
4777	Fred EeLang	Prospect	3.00	4848	H. Beiffuss	Big Bend	4.10
4778	Henry Casper	Prospect	3.30	4849	H. J. hnsen	Big Bend	3.30
4779	John Fallman	Prospect	3.80	4850	T. Thronsen	Big Bend	3.10
4780	A. Verbrick	Prospect	3.40	4851	A. F. Halverson	Big Bend	3.40
4781	C. Salentine	Prospect	3.40	4852	H. Peterson	Big Bend	3.40
4782	P. Salentine	Prospect	3.60	4853	Ole Oleson	Big Bend	3.80
4783	H. Battendorf	Prospect	3.00	4854	H. Budtka	Big Bend	3.60
4784	Martin Young	Prospect	3.50	4855	L. Peterson	Big Bend	4.00
4785	Frank Heil	Prospect	3.90	4856	A. Garnett	Big Bend	3.50
4786	Pat Reagan	Prospect	4.00	4857	R. Parves	Big Bend	4.00
4887	A. Martin	Prospect	3.70	4858	A. Kluck	Big Bend	3.40
4788	John Vick	Prospect	2.20	4859	C. Boyd	Big Bend	3.80
4789	Mrs. Snyder	Prospect	4.00	4860	A. Wilkins	Big Bend	3.60
5790	Boyd Bros	Prospect	8.80	4861	D. Pierce	Big Bend	3.70
4791	Jo. Phillips	Prospect	4.00	4862	V. Young	Big Bend	3.70
4792	C. Theisen- hausen	Prospect	4.00	4863	G. Wilkins	Big Bend	g.50
4793	Wm. Theisen- hausen	Prospect	4.00	4864	E. D. Jackson	Big Bend	4.40



## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
4865	D. I. Stickney	Big Bend	3.00	4937	Sam Haltman	Chilton	3.80
4866	W. Searle	Big Bend	3.70	4938	Ed Hall	Chilton	4.40
4867	F. Ellerston	Big Bend	3.20	4939	Ed Hall	Chilton	3.40
4868	W. Ringston	Big Bend	3.80	4940	Chas. Cannon	Chilton	3.60
4869	S. Kingston	Muskego	3.10	4241	Chas. Cannon	Chilton	5.50
4870	W. Kibnas	Big Bend	3.20	4942	C. Castonry	Chilton	4.00
4871	J. Schmet	Big Bend	3.50	4943	P. Ritzky	Chilton	4.00
4872	A. Clafin	Big Bend	4.20	4944	Nick Lex	Chilton	4.40
4873	J. McAnery	Big Bend	4.00	4945	Mike Meyer	Chilton	3.80
4874	W. Furguson	Big Bend	3.40	4946	Mike Meyer	Chilton	3.60
4875	H. Kabbish	Big Bend	3.60	4947	Ed Kennedy	Chilton	2.90
4876	J. Osterman	Reedsville	3.00	4948	Ed Kennedy	Chilton	4.20
4877	J. Osterman	Reedsville	4.40	4849	John Ryan	Chilton	3.80
4878	Herman Reese	Reedsville	3.20	4950	John Ryan	Chilton	3.60
4879	Herman Reese	Reedsville	5.00	4951	D. Ryan	Chilton	3.20
4880	Chas. Koehn	Reedsville	3.00	4952	D. Ryan	Chilton	3.80
4881	Chas. Koehn	Reedsville	3.80	4953	J. Miller	Chilton	4.60
4882	Fred Radandt	Reedsville	5.00	4954	J. Miller	Chilton	3.60
4883	Fred Radandt	Reedsville	3.80	4955	J. Flowers	Chilton	4.00
4884	Fred King	Reedsville	4.20	4956	J. Flowers	Chilton	3.40
4885	Fred King	Reedsville	3.40	4957	Geo. Joice	Chilton	5.20
4886	Aug. Bartels	Reedsville	3.20	4958	Geo. Joice	Chilton	4.00
4867	Aug. Bartels	Reedsville	4.20	3959	Chas. Winkel	Chilton	4.00
4888	C. A. Kauts	Reedsville	4.00	4960	Chas. Winkel	Chilton	4.40
4889	C. A. Kauts	Reedsville	3.00	4961	J. Winkles	Chilton	4.20
4890	W. Kritnes	Reedsville	3.00	4962	J. Winkles	Chilton	3.40
4891	W. Kritnes	Reedsville	3.00	4963	J. Krehsses	Chilton	4.10
4892	Galfreed Paul	Reedsville	3.30	4964	Sam Warner	Chilton	4.40
4893	Galfreed Paul	Reedsville	4.20	4965	Sam Warner	Chilton	4.30
4894	Carl Kauts	Reedsville	3.80	4966	Mrs. McHol		
4895	J. Peterman	Reedsville	3.40		land	Chilton	3.80
4896	J. Peterman	Reedsville	4.70	4967	B. Ware	Chilton	5.00
4897	Fred Lease	Reedsville	3.30	4668	B. Ware	Chilton	3.50
4898	Gus. Pfiffer	Reedsville	3.70	4970	Frank Moss	Chilton	4.60
4899	Gus. Pfiffer	Reedsville	3.80	4871	Frank Moss	Chilton	3.40
4900	Chas. Kluckon	Reedsville	4.40	4972	O. Kelley	Chilton	4.20
4901	Chas. Kluckon	Reedsville	3.80	4973	O. Kelley	Chilton	3.00
4902	Aug. Winzel	Reedsville	4.20	4074	Walter Dean	Chilton	4.00
4903	Aug. Winzel	Reedsville	3.40	4975	Walter Dean	Chilton	3.40
4904	Aug. Wisner	Reedsville	4.20	4976	R. Jackson	Chilton	3.80
4905	Aug. Wisner	Reedsville	3.20	4977	R. Jackson	Chilton	4.00
4906	D. Sonabend	Reedsville	3.60	4978	Frank Byron	Chilton	3.80
4907	D. Sonabend	Reedsville	3.60	4979	James Hall	Chilton	3.60
4908	John Frenk	Sheb'gan Falls	3.20			Chilton	3.40
4909	John Wanter	Sheb'gan Falls	4.00	4980	W. Benson	Brooklyn	3.70
4910	C. Barn	Sheb'gan Falls	3.50	4981	Kuchrenthes	Brooklyn	3.60
4911	Mrs. E. Me-			4982	C. Christianson	Brooklyn	3.40
	landy	Sheb'gan Falls	3.50	4983	W. Coats	Brooklyn	2.40
4912	John Radder	Sheb'gan Falls	3.20	4984	P. Newell	Brooklyn	3.20
4913	Henry Kloer	Sheb'gan Falls	4.20	4985	John Rositer	Brooklyn	3.40
4914	A. X. Hyatt	Sheb'gan Falls	3.60	4986	Smith & Ben-		
4915	A. X. Hyatt	Sheb'gan Falls	3.00		nett.	Brooklyn	3.40
4916	H. Tahl	Sheb'gan Falls	3.40	4987	J. A. Bannary	Brooklyn	4.20
4917	G. Halzschub	Sheb'gan Falls	2.80	4988	John Newell	Brooklyn	3.00
4918	H. Prinsen	Sheb'gan Falls	3.70	4986	John Norton	Brooklyn	3.50
4919	H. Prinsen	Sheb'gan Falls	3.30	4990	Mrs. Flood	Brooklyn	3.50
4920	H. Kroeyer	Sheb'gan Falls	3.90	491	Mrs. Burns	Brooklyn	3.50
4921	A. Freidrich	Sheb'gan Falls	3.40	4992	L. Amadon	Brooklyn	3.10
4922	H. Lienhardt	Sheb'gan Falls	3.60	4993	H. O'Brien	Brooklyn	3.40
4923	John Hokins	Sheb'gan Falls	3.60	4994	A. Baldwin	Brooklyn	4.60
4924	Mark Melindy	Sheb'gan Falls	3.20	4995	C. Fuller	Brooklyn	3.40
4925	W. Meier	Sheb'gan Falls	3.80	4996	E. Montgomery	Brooklyn	4.20
4926	W. Puhl	Sheb'gan Falls	3.40	4997	Bert Demer	Brooklyn	3.20
4927	R. Hajenga	Sheb'gan Falls	3.20	4998	H. P. Stark-		
4928	D. Graff	Chilton	4.60		weather	Brooklyn	4.00
4929	D. Graff	Chilton	4.20	4909	G. Smith	Brooklyn	4.00
4930	J. R. McCabe	Chilton	5.10	1000	W. R. Smith	Brooklyn	3.40
4931	J. R. McCabe	Chilton	3.80	1001	E. Ruddock	Brooklyn	4.40
4932	D. S. Clark	Chilton	3.10	5002	P. Deremer	Brooklyn	3.60
4933	D. S. Clark	Chilton	4.00	1003	C. A. Roberts	Brooklyn	5.20
4934	John McHugh	Chilton	4.20	5004	Hans Oleson	Brooklyn	2.90
4935	John McHugh	Chilton	3.50	5005	H. Fillie	Brooklyn	4.00
4936	Sam Haltman	Chilton	4.10	5006	P. Sorenson	Brooklyn	3.00

## ANNALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
5007	Chas. Peters..	Brooklyn.....	3.60	5080	A. Callien.....	Waupun.....	3.80
5008	R. Jacobson...	Brooklyn.....	3.10	5081	H. Helgreson..	Waupun.....	2.40
5009	E. Doolittle...	Brooklyn.....	4.30	5082	H. Helgreson..	Waupun.....	4.70
5010	C. Hansen.....	Brooklyn.....	3.00	5083	C. Benson.....	Waupun.....	3.40
5011	Mike Doyle...	Brooklyn..... M	4.20	5084	C. Benson.....	Waupun.....	3.60
5012	Mike Doyle...	Brooklyn..... N	3.20	5085	A. Dashman...	Waupun.....	4.00
5013	J. Nelson.....	Brooklyn.....	3.80	5086	J. Tew.....	Waupun.....	3.20
5014	F. A. Chapin...	Brooklyn.....	3.80	5087	J. Tew.....	Waupun.....	5.00
5015	G. Ingraham...	Brooklyn.....	3.60	5088	J. Kramer.....	Waupun.....	4.00
5016	R. Severson...	Brooklyn.....	4.00	5089	G. Swansen...	Waupun.....	3.60
5017	G. Ferris.....	Brooklyn.....	3.50	5090	G. French.....	Waupun.....	3.50
5018	John Hull....	Brooklyn.....	3.20	5091	C. Kaupman...	Waupun.....	3.00
5019	J. Bramham...	Brooklyn.....	4.00	5092	C. Kaupman...	Waupun.....	3.80
5020	James Stewart.	Brooklyn.....	3.50	5093	J. Bickes.....	Waupun.....	3.70
5021	H. Jenson.....	Brooklyn.....	3.40	5094	Gunther Bros.	Waupun.....	3.80
5022	S. O'Brien....	Brooklyn.....	4.80	5095	Gunther Bros.	Waupun.....	4.00
5023	Chas. Brown...	Brooklyn.....	4.20	5096	C. Colts.....	Waupun.....	3.00
5024	Peter Paulson.	Brooklyn.....	3.60	5097	C. Colts.....	Waupun.....	5.20
5025	John Owens...	Brooklyn.....	3.20	5098	B. Meikeljohn.	Waupun.....	4.00
5026	W. Shoats....	Brooklyn.....	3.60	5099	B. Meikeljohn.	Waupun.....	4.70
5027	Geo. Kiser....	Brooklyn.....	4.00	5100	Geo. Owen....	Waupun.....	3.20
5028	J. Baldwin...	Brooklyn.....	3.70	5101	Geo. Owen....	Waupun.....	4.10
5029	Con. O'Brien.	Brooklyn.....	4.00	5102	J. Taylor....	Waupun.....	3.00
5030	Chas. Hoop....	Brooklyn.....	3.00	5103	J. Taylor....	Waupun.....	4.80
5031	Martin Mason	Brooklyn.....	4.30	5104	A. Johnson...	Waupun.....	3.60
5032	Chas. Baldwin.	Brooklyn.....	3.60	5105	J. Annis.....	Waupun.....	3.70
5033	P. McCormick.	Brooklyn.....	3.60	5106	J. Cronk.....	Waupun.....	3.00
5034	C. Smith.....	Brooklyn.....	3.80	5107	E. Klebs.....	Waupun.....	3.50
5035	L. Paine.....	Brooklyn.....	4.00	5108	Carey Bros...	Waupun.....	3.80
5036	E. Smith.....	Brooklyn.....	3.40	5109	Carey Bros...	Waupun.....	4.80
5037	Sargent & Fox.	Brooklyn.....	3.60	5110	C. Youmans...	Waupun.....	3.40
5038	Geo. Palaise...	Brooklyn.....	3.20	5111	C. Youmans...	Waupun.....	4.20
5039	W. Sands.....	Brooklyn.....	4.00	5112	F. Lehman...	Waupun.....	4.60
5040	Chas. Simmons	Brooklyn.....	4.00	5113	F. Lehman...	Waupun.....	5.00
5041	Owen Doyle...	Brooklyn.....	3.00	5114	W. French...	Waupun.....	3.40
5042	Ringham.....	Brooklyn.....	4.20	5115	W. French...	Waupun.....	4.20
5043	W. Naukarell.	Brooklyn.....	3.50	5116	E. Dues.....	Waupun.....	3.80
5044	W. Eitzgerald.	Brooklyn.....	3.60	5117	E. Dues.....	Waupun.....	4.60
5045	John Yarwood.	Brooklyn.....	3.80	5118	J. Dorlan...	Waupun.....	3.20
5046	F. Gynup....	Brooklyn.....	4.00	5119	J. Dorlan...	Waupun.....	4.00
5047	F. S. Peterson	Brooklyn.....	3.40	5120	W. Phillips...	Waupun.....	3.40
5048	R. Christianson	Brooklyn.....	3.50	5121	J. Schmid...	Waupun.....	3.20
5049	L. Graves....	Brooklyn.....	3.80	5122	J. Dues.....	Waupun.....	3.20
5050	L. F. Biglow...	Brooklyn.....	3.80	5123	D. Brennan...	Waupun.....	4.20
5051	F. Shultz....	Brooklyn.....	3.60	5124	N. Dayle....	Waupun.....	3.40
5052	H. Shultz....	Brooklyn.....	4.20	5125	J. Patterson.	Waupun.....	4.30
5053	John Kivlin...	Brooklyn.....	3.70	5126	W. Merrill...	Waupun.....	4.00
5054	G. Jehn.....	Brooklyn.....	3.80	5127	J. Patterson.	Waupun.....	4.00
5055	E. H. Johnson.	Brooklyn.....	4.00	5128	G. Brintness.	Clem'onsville.	4.60
5056	Martin Farsyth	Brooklyn.....	3.20	5129	C. Gowzke...	Clem'onsville.	3.60
5057	H. Bower.....	Brooklyn.....	3.90	5130	M. Pitz.....	Clem'onsville.	4.00
5058	R. Larson....	Brooklyn.....	3.20	5131	S. Conklin...	Clem'onsville.	4.20
5059	N. L. Greenman	Brooklyn.....	3.70	5132	S. Conklin...	Clem'onsville.	4.60
5060	John Owens, Jr	Brooklyn.....	3.50	5133	J. Boween...	Clem'onsville.	4.60
5061	Matt Farrell..	Brooklyn.....	3.20	5134	M. Jenkins...	Clem'onsville.	5.00
5062	F. Johnson...	Brooklyn.....	3.50	5135	J. Boune....	Clem'onsville.	4.50
5063	C. Richardson.	Brooklyn.....	4.40	5136	G. Renhardt.	Clem'onsville.	5.00
5064	C. Ricoardson.	Brooklyn.....	3.40	5137	E. McDonald.	Clem'onsville.	4.00
5065	J. C. Deveraux.	Brooklyn.....	3.60	5138	J. Taber....	Clem'onsville.	5.00
5066	H. C. Deveraux	Brooklyn.....	3.40	5139	W. Davis....	Clem'onsville.	3.80
5067	A. Separatos..	Brooklyn.....	.....	5140	H. Clark....	Clem'onsville.	4.40
5068	D. Weston Supt	Brooklyn.....	.....	5141	E. Brown....	Clem'onsville.	4.80
5069	C. Biels-trup.	Waupun.....	4.20	5142	W. Bennette.	Clem'onsville.	4.50
5070	C. Biels-trup.	Waupun.....	3.80	5143	S. Christianson.	Clem'onsville.	4.40
5071	D. Connars...	Waupun.....	3.40	5144	C. Mechel...	Clem'onsville.	4.20
5072	D. Connars...	Waupun.....	4.80	5145	H. Baer....	Clem'onsville.	4.40
5073	C. Hilgeson...	Waupun.....	3.00	5146	J. Cowlong...	Clem'onsville.	5.00
5074	C. Hilgeson...	Waupun.....	4.20	5147	M. Baetge...	Clem'onsville.	4.30
5075	C. Neeb.....	Waupun.....	3.20	5148	Fred Hoffman.	Clem'onsville.	4.60
5076	C. Neeb.....	Waupun.....	4.00	5149	N. Grinn....	Clem'onsville.	4.40
5077	F. Kahls....	Waupun.....	3.50	5150	Vat.....	Clem'onsville.	4.40
5078	F. Kahls....	Waupun.....	4.00	5151	T. H. Williams.	Snell Station.	3.40
5079	C. Greenwald.	Waupun.....	3.60	5152	W. Waneberg.	Snell Station.	3.60

## ANALYSIS OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter Fat.	Lab. No.	From whom taken.	Address.	Butter Fat.
5153	F. Waiker	Snell Station.	5.00	5225	C. Webbell	Baldwin	2.70
5154	Aug. Strey	Snell Station.	3.80	5226	John Tebert	Baldwin	4.60
5155	J. Wesman	Snell Station.	5.00	5227	G. Werrrels	Baldwin	4.20
5156	L. E. Steale	Snell Station.	4.00	5228	J. H. Stables	Baldwin	3.60
5157	E. I. Price	Snell Station.	3.60	5229	A. Pens	Baldwin	3.20
5158	Henry Mills	Snell Station.	3.80	5230	W. Doormink	Baldwin	3.50
5159	John Lord	Snell Station.	4.30	5231	M. Asht-rhoff	Baldwin	3.20
5160	S. C. Hill	Snell Station.	5.00	5232	H. Hops	Baldwin	3.10
5161	Mrs. Zenlak	Snell Station.	3.60	5233	U. Storks	Baldwin	3.20
5162	A. B. Forest	Snell Station.	4.60	5234	D. Santord	Baldwin	3.20
5163	C. C. Walker	Snell Station.	4.80	5235	J. Westendorf	Baldwin	3.80
5164	Ed. Matlard	Snell Station.	4.40	5236	P. Heebink	Baldwin	2.60
5165	J. W. Kembsly	Snell Station.	4.40	5237	H. Nebbelink	Baldwin	4.00
5166	J. H. Denhardt	Snell Station.	3.90	5238	Frank Langel.	Baldwin	3.60
5167	Mrs. Stein	Snell Station.	3.90	5239	L. Vriese	Baldwin	3.40
5168	H. Bahe	Neenah	3.20	5240	Mrs. Doornink	Baldwin	3.40
5169	Jahe Hasness	Neenah	3.30	5241	H. Simmlink	Baldwin	4.00
5170	Chas. Hane	Neenah	3.60	5242	J.ohn Lamson.	Baldwin	3.70
5171	Theodore Bahs	Neenah	3.10	5243	Olle Baneberg.	Baldwin	2.70
5172	A. Hasness	Neenah	3.80	5244	Ben Stark	Baldwin	3.00
5173	Fred Strutz	Neenah	3.40	5245	Mrs. Nelson	Baldwin	3.80
5174	Wm. Strutz	Neenah	4.80	5246	C. Anderson	Baldwin	3.40
5175	W. Reinke	Neenah	4.00	5247	J. W. Clander		
5176	Aug. Chellien	Neenah	3.80		man	Baldwin	3.60
5177	M. Moritz	Neenah	3.86	5248	H. Willike	Baldwin	
5178	Wm. Asmus	Neenah	4.00	5249	Jake De Jong	Baldwin	3.00
5179	W. Smbatne	Neenah	4.20	5250	Nels Johnson	Baldwin	3.30
5180	H. Disches	Neenah	3.60	5251	P. Vandeau	Baldwin	4.20
5181	H. Reuhn	Neenah	3.60	5252	N. Vandeau	Baldwin	4.20
5182	L. E. Scott	Neenah	3.60	5253	A. Mertink	Baldwin	4.00
5183	H. Vogt	Neenah	4.00	5254	H. Snoeyenbus	Baldwin	3.69
5184	Hans Jensen	Neenah	3.50	5255	W. Groolen		
5185	John Owens	Neenah	3.70		hies.	Baldwin	3.40
5186	H. Cummings	Neenah	4.00	5256	W. Pe Masts.	Baldwin	3.80
5187	W. Divall	Montfort	3.42	5257	H. De Volk	Baldwin	3.60
5188	W. Divall	Montfort	3.40	5258	B. Fukkink	Baldwin	3.20
5189	W. Divall	Montfort	4.10	5259	E. Joger dink	Baldwin	3.60
5190	W. Divall	Montfort	4.10	5260	G. Armae	Baldwin	3.20
5191	A. Bowers	Montfort	3.60	5261	D. Fukkink	Baldwin	3.80
5192	A. Bowers	Montfort	3.60	5262	Wm. Faskiel	Baldwin	4.40
5193	G. Shipley	Montfort	3.40	5263	H. Stables	Baldwin	3.30
5194	G. Shipley	Montfort	3.40	5264	G. Landel	Baldwin	3.80
5195	C. Drones	Montfort	3.40		F. Tratt's herd		
5196	C. Drones	Montfort	3.40		imported:		
5197	C. Bodeff	Montfort	3.60	5265	Cremoma	Whitewater	5.20
5198	C. Bodeff	Montfort	3.60	5266	Cinderilla	Whitewater	4.90
5199	M. McNulty	Montfort	3.40	5267	Zella	Whitewater	6.30
5200	M. McNulty	Montfort	3.40	5268	Heifer	Whitewater	6.20
5201	W. Casily	Montfort	3.50	5269	Laura, 3d	Whitewater	4.40
5202	W. Casily	Montfort	3.50	5270	Daffodil, imp.	Whitewater	4.60
5203	W. Casily	Montfort	3.70	5271	Bagaline	Whitewater	5.40
5204	W. Casily	Montfort	3.70	5272	Carulet	Whitewater	4.90
5205	J. Droves	Montfort	3.40	5273	Friskey	Whitewater	5.20
5206	J. Droves	Montfort	3.40	5274	Lillerth	Whitewater	5.60
5207	J. Droves	Montfort	3.40	5275	St. Calumbo,		
5208	J. Droves	Montfort	3.40		4th	Whitewater	4.80
5209	J. Croves	Montfort	3.60	5276	Abne Pauls-		
5210	J. Croves	Montfort	3.40		dale.	Whitewater	5.50
5211	T. H. Biddeck	Montfort	2.60	5277	Lily of the Val-		
5212	T. H. Biddeck	Montfort	2.60		ley.	Whitewater	6.60
5213	T. Webster	Montfort	3.36	5278	Lady Sarnia,		
5214	T. Webster	Montfort	3.30		imp.	Whitewater	4.80
5215	J. P. Chandler	Montfort	4.20	5279	Emma Liella	Whitewater	4.90
5216	J. P. Chandler	Montfort	4.20	5280	Clemetine	Whitewater	4.60
5217	E. Hazeltine	Montfort	3.30	5281	Loretta	Whitewater	4.80
5218	E. Hazeltine	Montfort	3.30	5282	Lady Sarnia	Whitewater	3.20
5219	A. Durman	Montfort	3.40	5283	Columbine	Whitewater	4.70
5220	A. Durman	Montfort	3.40	5284	Lorelia	Whitewater	6.10
5221	W. Egbert	Baldwin	4.20	5285	Lady Peel, imp	Whitewater	4.66
5222	W. Egbert	Baldwin	3.20	5286	Bulah	Whitewater	5.60
5223	H. S. Foster	Baldwin	3.20	5287	Rosa Lee	Whitewater	3.60
5224	G. W. Clunder-	Baldwin	3.50	5288	Bogonette	Whitewater	6.10
	man	Baldwin	3.50	5289	Union	Whitewater	4.80

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
5290	C. Julietta.....	Whitewater..	4.40	5364	J. N. Oleson..	Elkhorn....	3.80
5291	Clementia.....	Whitewater..	4.40	5365	J. Eckles....	Elkhorn....	4.00
5292	Silverita.....	Whitewater..	4.40	5366	T. Peck.....	Elkhorn....	3.60
5293	Dimetris.....	Whitewater..	4.40	5367	E. Weiles....	Elkhorn....	3.20
5294	Geo. Beibel....	Hilbert.....	4.00	5368	J. Shepard...	Elkhorn....	3.90
5295	F. Lenz.....	Hilbert.....	3.20	5369	A. T. Smith...	Elkhorn....	4.00
5296	F. Lenz.....	Hilbert.....	4.10	5370	C. Willham...	Elkhorn....	3.00
5297	F. Simberg...	Hilbert.....	4.50	5371	A. Mayier...	Elkhorn....	4.00
5298	F. Simberg...	Hilbert.....	5.80	5372	C. W. Hickson	Elkhorn....	3.20
5299	F. Anheir....	Hilbert.....	3.30	5373	N. B. Bobb...	Elkhorn....	4.30
5300	F. Anheir....	Hilbert.....	3.20	5374	Geo. Willey...	Elkhorn....	3.80
5301	L. Roddatz...	Hilbert.....	3.70	5375	J. McSorley...	Elkhorn....	3.60
5302	C. Hoberdandt	Hilbert.....	3.20	5376	R. Crosby....	Elkhorn....	4.20
5303	C. Hoberdandt	Hilbert.....	3.70	5377	R. Nelson....	Elkhorn....	4.40
5304	C. Pagel.....	Hilbert.....	3.80	5378	J. S. Oleson...	Elkhorn....	3.80
5305	C. Pagel.....	Hilbert.....	4.20	5379	O. Jacobson...	Elkhorn....	4.30
5306	W. DeKasske..	Hilbert.....	4.00	5380	Wm. Wolf....	Elkhorn....	4.30
5307	W. DeKasske..	Hilbert.....	4.00	5381	Geo. White...	Elkhorn....	3.20
5308	H. DeKasske..	Hilbert.....	4.20	5382	J. S. Wright...	Elkhorn....	3.70
5309	H. DeKasske..	Hilbert.....	3.70	5383	C. Wilson....	Elkhorn....	3.80
5310	John Groves...	Hilbert.....	3.60	5384	U. Wier.....	Elkhorn....	4.20
5311	John Groves...	Hilbert.....	3.80	5385	N. Weiss....	Elkhorn....	4.00
5312	Chas. Selle...	Hilbert.....	4.60	5386	J. Oslock....	Elkhorn....	4.00
5313	Chas. Selle...	Hilbert.....	3.10	5387	M. Kittleson..	Elkhorn....	3.60
5314	John Burke...	Hilbert.....	4.60	5388	O. Kittleson..	Elkhorn....	3.80
5315	John Burke...	Hilbert.....	3.60	5389	J. Sanders...	Elkhorn....	6.60
5316	R. Dascombe...	Hilbert.....	4.20	5390	P. Belton....	Elkhorn....	3.60
5317	A. Retterath...	Hilbert.....	3.70	5391	J. Jessup....	Elkhorn....	4.20
5318	P. Dohr.....	Hilbert.....	4.60	5392	M. Robinson...	Elkhorn....	3.60
5319	P. Dohr.....	Hilbert.....	3.40	5393	J. Connaughtn	Elkhorn....	3.80
5320	H. Schmithing	Hilbert.....	3.40	5394	Mrs. Babcock..	Elkhorn....	3.60
5321	H. Schmithing	Hilbert.....	3.64	5395	B. S. Benson...	Genoa Junc. N	3.80
5322	I. Planz.....	Hilbert.....	4.20	5396	B. S. Benson...	Genoa Junc. M	4.20
5323	L. Planz.....	Hilbert.....	3.00	5397	C. Peterson...	Genoa Junc...	3.80
5324	F. Haffermense	Hilbert.....	4.00	5398	C. Hennig....	Genoa Junc...	3.90
5325	F. Haffermense	Hilbert.....	3.80	5399	A. W. Easter...	Genoa Junc...	3.90
5326	L. Yager.....	Hilbert.....	4.40	5400	Frank Darling	Genoa Junc. N	3.20
5327	L. Yager.....	Hilbert.....	4.00	5401	Frank Darling	Genoa Junc. M	4.00
5328	F. Heinzel...	Hilbert.....	3.80	5402	Butter Milk...	Genoa Junc...	1.00
5329	J. Hoffman...	Hilbert.....	5.30	5403	Aug. Auburn...	Genoa Junc...	3.80
5330	A. House.....	Hilbert.....	4.10	5404	F. Price.....	Genoa Junc. M	4.00
5331	J. Hoffman...	Hilbert.....	4.40	5405	F. Price.....	Genoa Junc. N	3.90
5332	John Ott.....	Hilbert.....	4.56	5406	Se p. Skim Milk	Genoa Junc...	40
5333	J. Koehler...	Hilbert.....	3.50	5407	Mrs. Katzenberger	Genoa Junc. M	4.70
5334	W. Koehler...	Hilbert.....	3.90	5408	Mrs. Katzenberger	Genoa Junc. N	3.40
5335	M. Schicker, Sr	Hilbert.....	4.60	5409	Eck Davis....	Genoa Junc. M	4.20
5336	M. Schicker, Sr	Hilbert.....	3.80	5410	Eck Davis....	Genoa Junc. N	3.20
5337	M. Schicker, Jr	Hilbert.....	4.30	5411	O. Shulz....	Genoa Junc. N	3.90
5338	M. Schicker, Jr	Hilbert.....	3.60	5412	O. Shulz....	Genoa Junc. M	4.00
5339	A. Brandor...	Hilbert.....	5.40	5413	S. H. Darrow...	Genoa Junc. M	4.30
5340	W. Fambel...	Helbert....	4.00	5414	S. H. Darrow...	Genoa Junc. N	3.60
5341	W. Fambel...	Helbert....	3.88	5415	Wm. Kimball..	Genoa Junc. M	4.40
5342	P. Mathes....	Helbert....	3.60	5416	Wm. Kimball..	Genoa Junc. N	3.50
5343	P. Mathes....	Helbert....	3.70	5417	W. Freuming...	Genoa Junc. M	4.40
5344	J. Rightly...	Helbert....	3.70	5418	W. Freuming...	Genoa Junc. N	3.90
5345	T. O'Donnel...	Helbert....	4.60	5419	R. Hoffman...	Genoa Junc. M	4.60
5346	E. Evenson & T. Jacobsen.	Elkhorn....	3.90	5420	R. Hoffman...	Genoa Junc. N	4.00
5349	C. North.....	Elkhorn....	3.60	5421	M. Lambert...	Genoa Junc. M	4.30
5350	L. Johnson...	Elkhorn....	3.60	5422	M. Lambert...	Genoa Junc. N	3.40
5351	N. Hanson....	Elkhorn....	4.20	5423	G. M. Hickdon	East Delevan..	3.70
5352	L. A. Flitcraft.	Elkhorn....	3.80	5424	H. C. Kishness	East Delevan..	4.00
5353	B. Huntley...	Elkhorn....	4.20	5425	A. P. Lind....	East Delevan..	3.50
5354	J. McDouough.	Elkhorn....	3.40	5426	D. D. Church...	East Delevan..	4.20
5355	L. Salverson...	Elkhorn....	3.80	5427	J. H. Hollister	East Delevan..	4.10
5356	J. Nelson....	Elkhorn....	4.60	5428	H. Gronza....	East Delevan..	3.90
5357	John Strong...	Elkhorn....	4.10	5429	M. McGraw...	East Delevan..	3.60
5358	E. Manoldson..	Elkhorn....	4.00	5430	C. E. Dodge...	East Delevan..	3.80
5359	L. Rabbleman..	Elkhorn....	4.00	5431	J. Williams...	East Delevan..	4.40
5360	Chas. Desing...	Elkhorn....	3.20				
5361	James Gric...	Elkhorn....	4.20				
5362	O. Salverson...	Elkhorn....	3.60				
5363	I. Granza....	Elkhorn....	3.00				

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
5432	R. McCabe	East Delevan	4.00	5499	Skim Milk	Bassett Stat'n	30
5433	Butter Milk	East Delevan	1.20	5500	F. Jones	Bassett Stat'n	3.20
5434	Skim Milk	East Delevan	.20	5501	J. Beithorn	Bassett Stat'n	4.10
5435	Henry Dalton	East Delevan	4.90	5502	G. Kershoff	Bassett Stat'n	4.00
5440	Fred Kishnes	East Delevan	4.40	5503	F. Reichard-son	Bassett Stat'n	3.20
5441	A. J. Hare	East Delevan	3.70	5504	H. Halancamp	Bassett Stat'n	4.00
5442	E. Voss	East Delevan	4.26	5505	John Zingles	Bassett Stat'n	4.00
5443	B. Rockwell	East Delevan	3.80	5506	Frank Robert-son	Bassett Stat'n	4.00
5444	C. H. Fink	East Delevan	3.90	5507	W. Williams	Bassett Stat'n	4.40
5445	A. Fitzgerald	East Delevan	4.50	5508	Radarg Bros.	Bassett Stat'n	3.80
5446	Geo. Fureg	East Delevan	3.80	5509	J. Pochnick	Bassett Stat'n	4.60
5447	C. A. Ball	East Delevan	3.80	5510	H. Peterson	Bassett Stat'n	4.10
5448	Chas. Stearns	East Delevan	3.10	5511	F. Benolds	Barrett Stat'n	3.80
5449	Bert D-lap	East Delevan	3.80	5512	Skim milk	Barrett Stat'n	15
5450	M. Mink	East Delevan	4.20	5513	L. Van Blacorn	New Cassel	(N) 3.80
5451	W. H. Southwick	East Delevan	4.30	5514	L. Van Blacorn	New Cassel	(M) 4.00
5452	M. H. Bingham	East Delevan	3.40	5515	Aug. Zimmer	New Cassel	(M) 4.00
5453	John Catter	East Delevan	3.00	5516	Aug. Zimmer	New Cassel	(N) 3.10
5454	Peter Hanson	East Delevan	3.60	5517	C. Kerwalk	New Cassel	(N) 3.60
5455	J. S. McDaugal	East Delevan	4.20	5518	C. Kerwalk	New Cassel	(M) 4.40
5456	J. L. Weybranch	East Delevan	4.10	5519	J. Gatzke	New Cassel	4.10
5457	G. E. Pierce	East Delevan	3.60	5520	-- Krueger	New Cassel	(N) 3.60
5458	J. Fitzgerald	East Delevan	4.00	5521	-- Krueger	New Cassel	(M) 4.20
5459	L. C. Williams	East Delevan	3.40	5522	M. B. Reed	New Cassel	(N) 3.80
5460	W. Mereness	East Delevan	3.60	5523	L. B. Reed	New Cassel	(M) 4.00
5461	Geo. Mereness	East Delevan	3.80	5524	W. Prenzel	New Cassel	(N) 4.00
5462	C. C. Meacham	East Delevan	4.20	5525	W. Prenzel	New Cassel	(M) 5.00
5463	C. Kishnes	East Delevan	4.60	5526	M. Samson	New Cassel	4.00
5464	J. N. Eastick	East Delevan	3.70	5527	James Smith	New Cassel	4.00
5465	D. Hatch	East Delevan	3.00	5528	H. Birg	New Cassel	3.60
5466	Mink Bea	East Delevan	4.10	5529	Aug. Bartelt	New Cassel	4.00
5467	A. Hagerman	East Delevan	3.20	5530	J. Kaue	New Cassel	4.50
5468	J. P. Lackey	East Delevan	4.00	5531	J. Matkeuthin	New Cassel	(N) 4.00
5469	S. N. Phelps	East Delevan	4.00	5532	J. Matkeuthin	New Cassel	(M) 4.00
5470	Ira Hoag	East Delevan	3.80	5533	F. Kespke	New Cassel	(N) 3.80
5471	D. Phelps	East Delevan	4.60	5534	F. Kespke	New Cassel	(M) 4.40
5472	James Virgil	East Delevan	3.80	5535	John Uelman	New Cassel	(N) 4.00
5473	W. Sherman	East Delevan	3.40	5536	John Uelman	New Cassel	(M) 4.40
5474	W. H. Virgil	East Delevan	3.80	5537	P. Uelman	New Cassel	4.10
5475	L. D. Williams	East Delevan	4.00	5538	J. Haushfield	New Cassel	4.30
5476	B. H. Mexwin	East Delevan	3.70	5539	A. Spradau	New Cassel	(N) 3.80
5477	John Powers	East Delevan	3.50	5540	A. Spradau	New Cassel	(M) 4.80
5478	E. A. Thomas	East Delevan	4.20	5541	H. Cobler	New Cassel	(N) 3.40
5479	H. Lackey	East Delevan	4.60	5542	H. Cobler	New Cassel	(M) 4.20
5480	W. H. David	East Malvern	4.20	5543	Wm. Jandra	New Cassel	4.20
5481	Geo. VanVelzer	East Delevan	4.50	5544	Wm. Jandra	New Cassel	(M) 4.20
5482	H. Fraecies	East Delevan	4.40	5545	R. S. Dunrash	New Cassel	(M) 4.20
5483	G. W. Farras	East Delevan	4.60				
5484	A. W. Henry	East Delevan	3.80				
5485	J. I. Brown	East Delevan	4.40				
5486	Chas. Henry	East Delevan	4.00				
5487	Butter Milk	Bassett Station	.90				
5488	Mrs. Nolan	Bassett Station	3.80				
5489	John Elderman	Bassett Station	3.40				
5490	Chris. Teder	Bassett Station	3.30				
5491	Aug. Voss	Bassett Station	3.50				
5492	J. Kohler	Bassett Station	3.50				
5493	Louis Dahrl	Bassett Station	3.60				
5494	V. C. Reynolds	Bassett Station	4.20				
5495	M. Galfenan	Bassett Station	4.70				
5496	Chas. Schults	Bassett Station	3.70				
5497	A. Schloc	Bassett Station	3.00				
5498	Gus. Rupkie	Bassett Station	4.00				

## ANALYSES OF MILK—Continued.

Lab. No.	From whom taken.	Address.	Butter fat.	Lab. No.	From whom taken.	Address.	Butter fat.
5546	Geo. Romain..	New Cassel...	3.70	5700	Tom Holladay	Wheatland...	3.60
5547	B. S. Romain..	New Cassel (M)	4.80	5701	Frank Somers	Wheatland...	4.50
5548	B. S. Romain..	New Cassel (N)	3.50	5702	A. Wicks	Wheatland...	4.00
5549	J. Ritles.....	New Cassel (M)	3.60	5703	F. Winke	Wheatland...	4.20
5550	J. Ritles.....	New Cassel (M)	3.60	5704	H. Epping	Wheatland...	4.40
5551	S. Hutchins...	New Cassel mixed	4.40	5705	W. Toole	Wheatland...	4.00
5552	A. W. Bell....	New Cassel...	4.00	5706	Jo. Epping	Wheatland...	4.20
5553	J. Furlong...	New Cassel (N)	3.40	5707	Frank Wicks	Wheatland...	4.00
5554	J. Furlong...	New Cassel (M)	4.30	5708	M. M. Wicks	Wheatland...	4.00
5652	Wm. Spoor...	South Wayne	4.40	5709	Joe Zelinsky	Wheatland...	4.00
5653	H. Nepstadt..	South Wayne	4.40	5710	John Busch	Wheatland...	4.20
5654	A. Anderson...	South Wayne	4.20	5711	H. Fishes	Wheatland...	5.00
5655	J. Larson	South Wayne	3.80	5712	C. Kohles	Wheat and...	4.30
5656	O. Newland...	South Wayne	4.60	5713	A. Schrorder	Wheatland...	4.00
5657	Geo. Streger..	South Wayne	4.60	5714	Joe Jacobs...	Wheatland...	3.80
5658	M. Oleson...	South Wayne	4.00	5715	H. Hildebrandt	Wheatland...	4.40
5659	Ed Foss	South Wayne	4.00	5716	H. Kohlweg...	Wheatland...	3.60
5660	Olie Woldon...	South Wayne	4.40	5717	H. Ulenhke...	Wheatland...	4.20
5661	H. Heudrick- son	South Wayne	5.00	5718	J. Heilagesbat	Wheatland...	3.20
5662	F. McMahn...	South Wayne	4.60	5719	Theo. Richter	Wheatland...	4.60
5663	W. Newstub...	South Wayne	4.30	5720	Anton King	Wheatland...	4.00
5664	J. Benington...	South Wayne	4.00	5721	Sam Tombs...	Wheatland...	3.00
5665	John Reed	South Wayne	4.30	5722	Chas Loomis	Wheatland...	3.60
5666	Louis Reed	South Wayne	4.30	5723	Ed's Luke...	Wheatland...	4.40
5667	John Owens' herd	Brooklyn.....	3.50	5724	H. Kies	Wheatland...	3.20
5668	Lady Hayes.	South Wayne	5.00	5725	W. Leudtka...	Wheatland...	2.00
5669	Princess	South Wayne	3.00	5726	Joe Walsh...	Wheatland...	4.20
5670	Princess Emma	South Wayne	4.00	5727	H. Shepstone.	Wheatland...	4.00
5671	Gray	South Wayne	3.50	5728	C. Evans	Wheatland...	4.20
5672	White	South Wayne	4.60	5729	John Callahan	Wheatland...	3.90
5673	Herd	South Wayne	3.10	5730	F. Swartz	Wheatland...	4.00
5674	Herd	South Wayne	3.50	5731	Butter Milk	Wheatland...	1.20
5675	Wm. Peterson.	Wheatland	4.00	5732	Skim Milk	Wheatland...	0.20
5676	W. Schultz	Wheatland	5.20	5733	Skim Milk	Wheatland...	0.10
5677	W. Lake	Wheatland	2.40	5734	Skim Milk	Wheatland...	0.40
5678	H. Sobba	Wheatland	4.30	5735	Alvin Fuller...	Mauston...	4.00
5679	Joe Seock	Wheatland	4.01	5736	Pat Sullivan	Mauston...	3.80
5680	John Warren.	Wheatland	4.00	5737	Dow Clute	Mauston...	4.20
5681	John Matews.	Wheatland	3.10	5738	D. Thompson.	Mauston...	3.80
5682	O. W. Eddy	Wheatland	4.80	5739	Ed Vandusen.	Mauston...	4.30
5683	A. Kunkel	Wheatland	3.60	5740	D. C. Robinson	Mauston...	3.60
5684	A. Ritcher	Wheatland	4.10	5741	Frank Fields.	Mauston...	3.80
5685	Ben Schoff.	Wheatland	3.60	5742	F. Schmidt...	Mauston...	4.00
5686	L. Teshorst.	Wheatland	3.50	5743	T. Riley	Mauston...	3.40
5687	C. Miller	Wheatland	3.40	5744	P. Stemmer	Mauston...	3.60
5688	John Hahn...	Wheatland	4.00	5745	M. Scebahe.	Mauston...	3.80
5689	Alf Ritcher	Wheatland	4.20	5746	J. Snyder	Mauston...	3.80
5690	Wm. Harkness.	Wheatland	4.60	5747	Wm. Miller	Mauston...	4.40
5691	F. Kirft	Wheatland	4.30	5748	H. Sarnow	Mauston...	4.00
5692	M. N. Lenz.	Wheatland	4.20	5749	A. O. Robinson	Mauston...	4.20
5693	Jo. Lenz	Wheatland	3.60	5750	M. Sullivan	Mauston...	4.00
5694	W. Murphy	Wheatland	4.00	5751	Wm. Hale	Mauston...	4.00
5695	Thomas Berry	Wheatland	4.20	5752	C. McCapestry	Mauston...	3.60
5696	Ed. Barrett.	Wheatland	3.80	5753	J. Ferguson	Mauston...	4.40
5697	T. Pennfeather	Wheatland	4.40	5754	Wm. Smart...	Mauston...	4.60
5698	F. Sherman	Wheatland	3.60	5755	F. Wich	Mauston...	4.00
5699	H. May	Wheatland	4.20	5756	E. H. Robinson	Mauston...	4.00
				5757	S. M. Fluno	Mauston...	3.80
				5758	W. H. Hale	Mauston...	4.00
				5759	Wm. Cure	Mauston...	4.20
				5760	Wm. Jennsh	Mauston...	3.80
				5761	K. Rundtson	Mauston...	4.00
				5762	E. G. Dodge	Mauston...	4.20
				5763	O. Larson	Mauston...	4.20
				5764	H. E. Robinson	Mauston...	3.40
				5765	H. Iverson	Mauston...	3.40
				5766	S. Remington.	Mauston...	4.80

## ANALYSES OF VINEGAR.

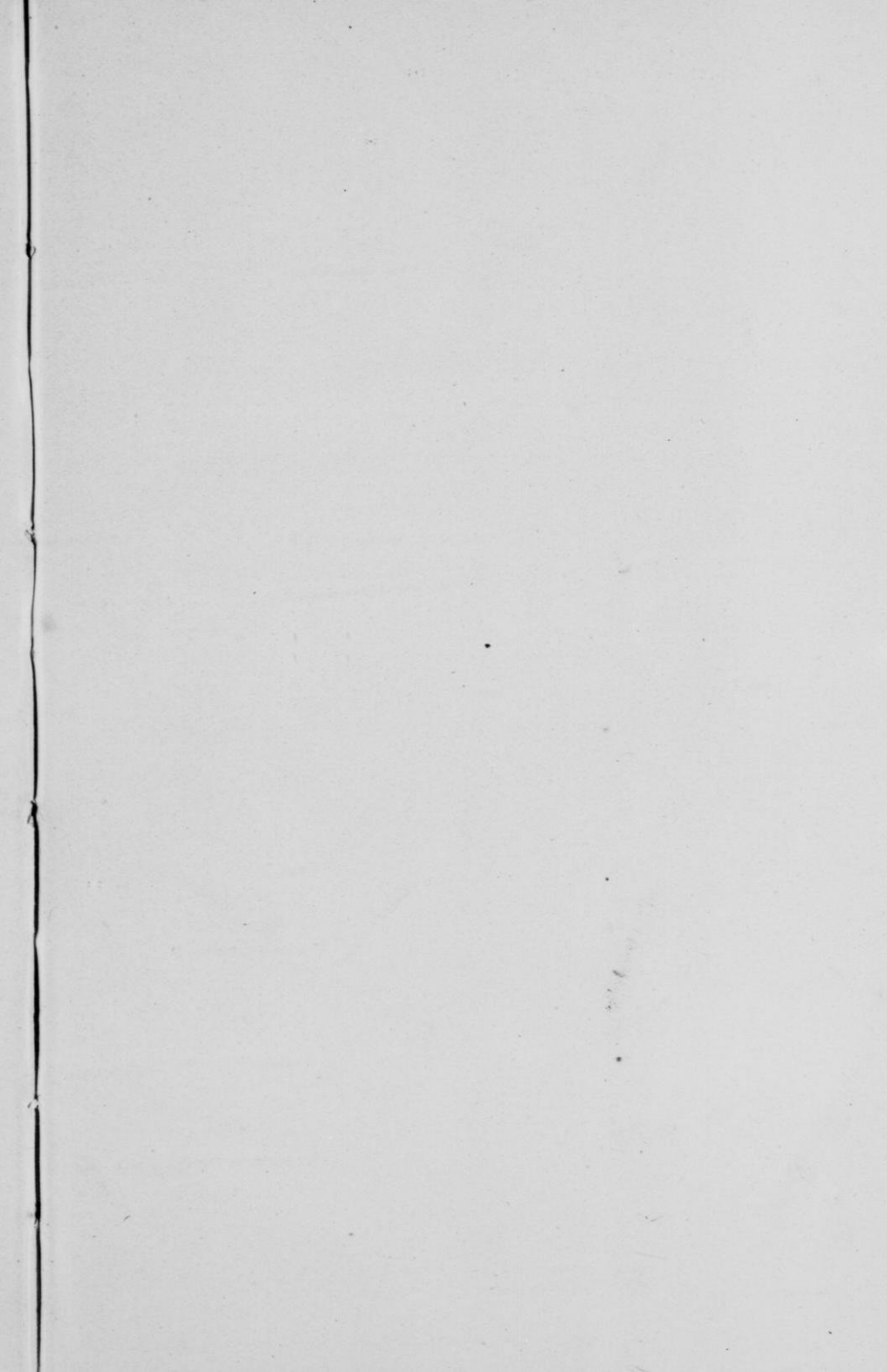
Lab. No.	1890.	Name of Dealer.	P. O. Address.	Manufacturer.	P. O. Address.	Acid.	Total solids.	Brand.
917	Oct. 6	E. Shattuck	Janesville			5.20	2.70	Cider.
919	Oct. 14	F. S. Boynton	Capitol House	C. E. Myers & Son	Freeport, Ill.	4.40	.83	Whiskey.
931	Nov. 21	L. Newell	Eau Claire			4.59	2.43	Cider.
993	March 23	Frel Bartels	Madison	C. H. Rosenstiel	Freeport, Ill.	3.83	.35	
994	April 20	Stile & Rogers	Beloit	Red Cross Vin. Co	St. Louis, Mo	4.32	2.36	Apple vinegar.
999	April 20	Geo. Tarrant & Son	Durand	Rosenstiel & Son	Dubuque, Ia	4.10	1.21	
998	July 4	James Bros	Green Bay	Barrett & Barrett	New York	4.30	3.60	N. Y. Cider. Wis.
938	July 4	James Bros	Green Bay	Holly Vin. works.	New York	4.19	.32	Legal Test.
1000	June 11	Brownell & Clemmens	Janesville	Rosenstiel & Son	Freeport, Ill.	4.10	.26	Pure cider.
1001	June 11	F. W. Christison	Janesville	Chas Mayr & Co	Freeport, Ill.	4.40	.31	XXX Fruit.
1002	June 11	Brownell & Clemmens	Janesville	Rosenstiel & Son	Freeport, Ill.	3.70	.29	Pure cider.
1003	June 11	Tarrant & O'good	Janesville	John Gould		3.35	3.47	
1004	June 11	H C. Meages	Janesville	Rosenstiel & Son	Freeport, Ill.	3.82	.34	Pure.
1005	June 11	Myers House	Janesville	Aldin Vin. Co	St. Louis, Mo	3.85	.50	Red A, in accordance
1003	Jan. 12	W. W. Wilson	Ashland	Red Cross		3.33	1.37	laws of Wisconsin.
1007	June 11	W. P. Sanders	Ashland	Paul Bechtner	Milwaukee	4.73	.23	Pure apple.
1008	June 11	K. C. King	Ashland			6.85	.41	Best cider vinegar.
1009	June 11	L. L. Larsen	Ashland	Paul Bechtner	Milwaukee	3.72	.21	Pure cider.
1010	June 11	G. G. Young	Ashland	Paul Bechtner	Milwaukee	3.75	.20	Pure cider.
1011	June 11	P Keenan	Ashland	Paul Bechtner	Milwaukee	9.27	.41	Pure cider.
1012	June 15	John Keyser	Fond du Lac	John Keyser	Fond du Lac	5.18	3.38	
1013	June 15	H. Wallick	Fond du Lac	Paul Bechtner	Milwaukee	3.15	.85	Apple cider.
1014	June 15	J. L. Morse	Fond du Lac	Paul Bechtner	Milwaukee	3.88	1.56	Apple cider.
1015	June 13	Wiley & Palin	Superior	Spink & Co	St. Paul, Minn	4.24	.67	Red Wine.
1016	June 13	Rogers & Hicks	Superior	Red Cross Vin. Co	St. Louis, Mo	4.12	1.60	
1017	June 13	S. Clark & C.	Superior	Spink & Co	St. Paul, Minn	4.24	.60	Red wine.
1018	June 13	Oleson & Peterson	Superior			4.15	.30	
1019	June 15	P. A. Quinlan	Fond du Lac			3.85	.41	
1020	June 10	E. E. Johnson	Rice Lake	Aldin Vin. W rks	St. Louis, Mo.	3.28	.78	
1021	June 20	Davis Bros	Milwaukee			3.94	.56	
1022	July 20	Williams & Wilson	Janesville				.40	
3021	Nov. 3	Beat & Schubert.	Madison	J. S. Gould	New York	3.82	2.20	Cider.
3023	Nov. 10	John Harn & Son	Elkhora.	Aldin Vin. Co.	St. Louis.	4.18	2.40	White wine.

3027	Nov. 10.	Mitchell & Spratt	Elkhorn	Ruderberg & Co.	Milwaukee	3.64	.16	Not cider.
3028	Nov. 10.	Byngton & Byngton	Elkhorn	American Vin. Works	Milwaukee	2.46	.25	
3029	Nov. 10.	A. Casswell	Elkhorn	McNeal, Higgins & Co.	Chicago	5.10	.26	Pure cider.
3030	Nov. 10.	F. W. Morefield	Elkhorn	McNeal, Higgins & Co.	Chicago	6.83	2.53	
3031	Nov. 10.	G. W. Ferris	Elkhorn	Alden Vin. Co.	St. Louis, Mo.	3.12	.40	
3032	Nov. 10.	J. E. Dodge	Elkhorn	C. H. Rosenstiel	Freeport.	4.10	.33	
3033	Nov. 10.	Slatery Bros.	Elkhorn	C. H. Rosenstiel	Freeport.	3.88	.15	
3034	Nov. 10.	J. Matherson	Elkhorn	Roundy, Peckman & Co.	Milwaukee	4.67	.41	
3035	Nov. 11.	Perry Welch	Elkhorn	Barrett, Prussing & Co.	Chicago	3.46	3.30	
3036	Oct. 29	E. Erickson	Palmyra	Paul Bechtner	Milwaukee	3.64	.45	
3037	Oct. 29	O. P. Dow	Palmyra	Ruderberg & Borden	Milwaukee	3.88	.19	
3038	Oct. 29	F. J. Sleep	Palmyra	Paul Bechtner	Milwaukee	3.94	.11	
3039	Oct. 29	A. J. Lins	Eagle	Dahmstedt & Co.	Milwaukee	5.02	.25	
304	Oct. 29	E. L. Bovee	Eagle	Paul Bechtner	Milwaukee	3.52	.23	
3041	Nov. 18.	A. A. Olin	Florence	Paul Bechtner	Milwaukee	2.84	.37	
	1892.							
305	Jan. 25	American Vin. Works	Milwaukee			4.77	3.27	
3059	Jan. 25	American Vin. Works	Milwaukee			4.09	2.08	
3067	Feb. 1.	E. A. Stattuck	Janesville			3.35	.40	
3098	Feb. 1.	E. A. Stattuck	Janesville			3.22	.39	
3071	Jan. 30.	H. H. Austin	East Troy	Alden Vinegar Co.	St. Louis.	3.40	.43	
	1892.							
3072	Jan. 3.	Wilmar Bros.	East Troy	Alden Vinegar Co	St. Louis	3.40	.50	
3073	Jan. 31.	H. H. Austin	East Troy	Home made		2.33	6.21	Cider.
3074	Jan. 30.	C. W. Irish	East Troy	Merrian Collins & Co.	Chicago	4.24	2.70	
3087	Feb. 16.	A. Lutz	Janesville	Alden Vinegar Co	St. Louis.	3.32	.....	
3088	Feb. 16.	P. Rudolph	Janesville	Alden Vinegar Co	St. Louis	3.32	.....	
3080	Feb. 16.	Ball & Bates	Janesville	Red Cross Vinegar Co	St. Louis	3.82	.89	
3095	Feb. 16.	Krouse & Vedder	Marshfield			3.40	.44	
3106	Feb. 20.	Soldiers' Home.	Milwaukee	Roundy, Peckham & Co.		4.64	2.30	
3106	Feb. 20.	Jerome Mutchles	Burlington	Alden Vinegar Co	St. Louis	3.43	.30	
3108	Feb. 24.	E. M. Groat	Waterford	Alden Vinegar Co	St. Louis	2.96	.36	
3109	Feb. 24.	Jerome Mutchles	Burlington	Alden Vinegar Co	St. Louis	3.13	.36	
3110	Feb. 54.	P. M. Jacobson	Waterford	Alden Vinegar Co	St. Louis	3.43	.39	
3111	Feb. 24.	P. M. Jacobson	Waterford	Alden Vinegar Co	St. Louis	2.86	.33	
3115	March 21.	J. E. Kenedy & Son.	Oshkosh			7.67	.....	
3116	March 30.	J. M. Payer	Lodi	C. E. Meyes	Freeport.	4.71	.35	
3117	March 30.	L. P. Hinds	Lodi	Reiderberg & Bodder	Milwaukee	3.92	.26	
3118	March 31.	John Schriener	Lancaster	J. G. Carves	New York	4.25	.41	
3119	March 31.	C. H. Baxter	Lancaster	Jas. Cushing & Sons.	Dubuque	5.08	1.88	
3120	March 31.	Nelson & Christianson	Deerfield	Alden Vinegar Co	St. Louis	3.06	.39	
3121	March 31.	Helmeick & Rodby	Deerfield	Alden Vinegar Co	St. Louis	1.33	.29	
3122	March 31.	Helmeick & Rodby	Deerfield	Alden Vinegar Co	St. Louis	4.15	.....	
3123	April 22	J. E. Delay	Deerfield	Alden Vinegar Co	St. Louis	3.30	.41	
3125	April 8.	Wickham & Williams	Racine	Alden Vinegar Co	St. Louis	3.65	.53	
3126	April 8.	F. Harberger	Racine	Alden Vinegar Co	St. Louis	6.18	.....	
3127	April 8.	L. L. Easson	Racine	Deringhander	Milwaukee	4.58	.45	
3128	April 8.	Hagenson Bros.	Kenosha	W. H. Bunge	Chicago.	4.95	.21	



## ANALYSIS OF VINEGAR—CONTINUED.

Lab. No.	Date.	Name of Dealer.	P. O. Address.	Manufacturer.	P. O. Address.	Acid.	Total Solids.	Brand.
3129	April 8....	Hill & Bronson .....	Kenosha .....	Am. Vinegar Works.....	Milwaukee.....	5.10	2.70	
3130	April 8....	Giproeres & Co. ....	Kenosha .....	Home made .....	Kenosha.....	.83	3.73	
3131	April 11 ..	Wm. E. Spooner.....	Whitewates .....	Bechtner's Best.....	Milwaukee .....	4.02	.21	
3132	April 11 ..	Wm. E. Spooner.....	Whitewates .....	Alden Vine Co. ....	St. Louis.....	3.40	.40	
5555	April 11 ..	H. G. Chase .....	Plattville .....	.....	St. Louis.....	3.15	.504	Spirit vinegar
5557	April 11 ..	L. Webber .....	Monroe .....	Red Cross Vin. Co.....	St. Louis.....	3.84	1.81	
5558	April 11 ..	L. Webber .....	Monroe .....	Red Cross Vin. Co.....	St. Louis.....	3.66	1.85	
5568	April 11 ..	John Martin .....	Beloit .....	.....	.....	3.90	.19	
5625	April 11 ..	Lohmeis Bros. ....	Sun Prairie .....	Paul Bechtner.....	Milwaukee .....	8.30	.....	Extra vinegars
5626	April 11 ..	H. G. Chase .....	Plattville .....	C. H. Rosentiel & Son.....	.....	4.02	.18	
5627	April 11 ..	R. C. Bennett .....	Plattville .....	Red Cross Vin. Co.....	St. Louis.....	4.10	.082	
5628	April 11 ..	J. V. Gardner .....	Plattville .....	Rosentiel & Son.....	St. Louis.....	4.05	.017	
5629	April 11 ..	Woodard & Hale ..	Plattville .....	Alden Fruit Vin. Co.....	St. Louis.....	3.93	.12	
5630	April 11 ..	Stile & Rodgers .....	Beloit .....	.....	.....	4.45	1.84	
5631	April 11 ..	Mrs. Haskins .....	.....	Hare & Sons .....	Freeport, Ill.....	3.82	.605	
5632	April 11 ..	Wilber Bros .....	East Troy .....	.....	.....	3.85	.....	
5633	April 11 ..	H. J. Topp .....	Columbus .....	.....	.....	8.28	.....	
5634	April 11 ..	.....	.....	American Vineyard .....	Milwaukee .....	4.66	4.065	
5635	April 11 ..	.....	.....	American Vineyard .....	Milwaukee .....	4.29	3.6	
5636	April 11 ..	H. Grove & Son .....	Madison .....	Mayer & Co. ....	Freeport, Ill.....	3.86	0.26	
5637	April 11 ..	H. Grove & Son .....	Madison .....	Barrett Pressing Co ..	Chicago .....	4.19	3.68	
5638	April 11 ..	Luthe & Fronchenberg	Neillsville .....	.....	.....	4.85	2.58	
5639	April 11 ..	Cash Mercantile & Drug Co.	.....	Amery .....	.....	3.15	4.85	
5640	April 11 ..	J. E. Kennedy .....	Oshkosh .....	.....	.....	5.15	2.25	
5641	April 11 ..	Hansen & Steinson ..	Winnekaunee .....	.....	.....	4.32	.36	
5642	April 11 ..	J. A. Cleveland .....	Richland Center .....	.....	.....	5.15	.25	
5643	April 11 ..	Stewars & Renolds ..	Tomah .....	Chas. Meyer & Co.....	Freeport, Ill.....	4.65	.38	
5644	April 11 ..	A. F. Baldwin .....	Tomah .....	Alden Vin. Co. ....	St. Louis.....	3.32	.45	
5645	April 11 ..	McCaul & Son .....	Tomah .....	Alden Vin. Co. ....	St. Louis.....	2.92	.64	
5646	April 11 ..	L. Webber .....	Monroe .....	Red Cross Vin. Co.....	St. Louis.....	2.79	1.77	



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