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## **Semi-annual bulletin of the Dairy and Food Commission of the state of Wisconsin. No. 13 1908**

Wisconsin Dairy and Food Commission  
Madison, Wisconsin: State Printer, 1908

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SEMIANNUAL BULLETIN  
OF THE  
DAIRY AND FOOD COMMISSION  
OF THE  
STATE OF WISCONSIN.

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**J. Q. EMERY, Commissioner,**  
MADISON, WIS.

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*By Authority of Chapter 188, Laws of 1905.*

**No. 13.**

JANUARY 1, 1908—JUNE 30, 1908.

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## Organization of the Commission.

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**J. O. EMERY, Dairy and Food Commissioner.**

**RICHARD FISCHER, PH. D.,**  
Chemist.

**U. S. BAER,**  
Assistant Commissioner.

**H. C. LARSON,**  
Second Assistant Commissioner.

**FLORENCE Q. NORTON,**  
Secretary.

**ETHEL D. THOMAS,**  
Stenographer and Confidential Clerk.

**A. E. KUNDERT, M. S.,**  
Assistant Chemist.

**HARRY KLUETER, PH. G.,**  
Assistant Chemist.

**F. M. BUZZELL,**  
Chief Food Inspector.

**F. E. CARSWELL,**

**E. L. ADERHOLD,**

**J. D. CANNON,**

**FRED MARTY,**

Cheese Factory, Dairy and Food Inspectors.

**T. CORNELIUSON,**

**WILLIAM McADAM (Resigned May 2).**

**P. A. LARSON,**

**JAMES VAN DUSER,**

Creamery, Dairy and Food Inspectors.

**W. F. SCOTT,**

Food Inspector.

**FRED P. DOWNING,**

Assistant Chemist.

## INTRODUCTORY

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Bulletin No. 13, covering the period from January 1, 1908, to June 30, 1908, is the last of the four semiannual bulletins for the biennial period ending June 30, 1908. The details of analyses and inspections published in these four bulletins will not be republished in the biennial report of the dairy and food commissioner as heretofore.

### STANDARDS OF PURITY.

Section 4601-4a relating to standards of purity for food products was added to the statutes by the legislature of 1907. Some of the standards included in this statute are quoted under the proper headings in the report of the chemist's analyses. Where laws have been enacted by the legislature fixing standards of foods or specifically defining unlawful products quoted in this bulletin, those laws are inserted. The standards and laws read in connection with the chemist's analyses, reveal the character of the adulterated or unlawful products. This should greatly aid the manufacturers, jobbers and retailers who seek to sell only pure and lawful products.

### ADULTERATION, MISBRANDING, PRESERVATIVES.

Following this introductory may be found the law above referred to relating to standards, the general law on adulteration of foods, the general law on misbranding of foods and the general law prohibiting the sale of foods containing specified chemical preservatives, to each of which laws frequent reference is made throughout the pages of this bulletin. It is of especial importance to dealers, as well as to the consuming public, that dealers give strict heed to the statute relating to chemical preservatives.

## BENZOIC ACID AND BENZOATES.

The attention of dealers is invited to the conclusions published elsewhere in this bulletin by Dr. H. W. Wiley, Chief of the Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C., that benzoic acid and benzoates used as preservatives in foods are highly deleterious substances. These conclusions have been arrived at as the result of lengthy and elaborate investigations and experiments conducted by Dr. Wiley and his collaborators on the so-called "poison squad," by authority of, and with funds appropriated by, congress. State dairy and food commissioners and the general public will accept Dr. Wiley's conclusions as they have accepted his previous conclusions arrived at from similarly conducted experiments with boric acid and borates, salicylic acid and salicylates.

The food laws of Wisconsin make it unlawful to sell in this state foods that contain any added deleterious substance. With the evidence now furnished by the report of Dr. Wiley that benzoic acid and benzoates are deleterious substances, it will be the duty of the dairy and food commissioner to bring prosecutions against dealers who persist in selling foods which contain any of these substances. This is given as a warning to dealers.

## SOAKING OF OYSTERS.

Investigation has disclosed that the adding of ice and water to oysters, ostensibly as a means of preserving them, has become a practice altogether too prevalent. It is the purpose of this commission to enforce the law with such vigor as to put a stop to this practice. When oysters wholesale at \$1.40 per gallon and are retailed at 35 cents a quart after having been watered and iced, it requires no unusual wisdom to perceive that water is being sold at 35 cents a quart. If the ice or the water used for this purpose is impure, it is apparent that this "soaking" of oysters is not only a fraud and a deception but a real menace to health. As packages are now obtainable for handling oysters without the addition of ice or water directly to them, there is no excuse for the continuance of this practice. It is hoped that dealers will discontinue this objectionable and unlawful practice of adulteration without

compelling the dairy and food commissioner to enforce the statutes through prosecution.

#### BLEACHED FLOUR.

Investigations conducted by this commission and by others disclose the fact that the practice has become almost general of bleaching flour with the oxides of nitrogen. The reader is referred to two articles on this subject on pages 142-146 of this bulletin.

The general law on the adulteration of articles of food makes it a misdemeanor to adulterate an article of food by adding any substance or substances to such article of food so as to lower or depreciate its quality or purity; or by any means to make it appear better or of greater value than it really is. The legal standard for flour in Wisconsin is as follows: Flour is the fine, clean, sound product made by bolting wheat meal and contains not more than thirteen and one-half (13.5) per cent. of moisture, not less than one and twelve hundredth (1.12) per cent. of nitrogen, not more than one (1) per cent. of ash, and not more than fifty hundredth (0.50) per cent. of fiber.

Meal is the clean, sound product made by grinding grain.

Oxides of nitrogen are therefore held to be illegal constituents of flour under the food laws of this state.

This is notice to manufacturers of and dealers in flour, that the sale of flour containing added oxides of nitrogen will be contested as unlawful unless such product is labeled and sold as "Chemically Bleached Flour," or "Flour and Oxides of Nitrogen," or by other truthful designation of the compound.

From investigations made in the laboratory of this commission, we are led to the conclusion that the practice of bleaching flour affords opportunity for fraud, and that the baking qualities of the flour and the flavor of the bread therefrom are depreciated.

It is the conclusion of some investigators that oxides of nitrogen contained in food, even in very minute quantities, are deleterious to health. If further investigation corroborates these conclusions, it will become the duty of the dairy and food commissioner to contest as unlawful the sale, under any name whatever, of flour bleached with the oxides of nitrogen.

## STANDARDS FOR SAUSAGES AND OTHER MANUFACTURED MEAT PRODUCTS.

Sausage, sausage meat, blood sausage, canned meat, corned or cured meat, potted meat, meat loaf, mince, mince meat, when sold in this state under the names herein given, should correspond to the following standards. These standards were formulated by the joint committee on standards of the association of official agricultural chemists and of the association of state and national food and dairy departments. They resulted from painstaking investigation extending through several years, during which time manufacturers appeared before the joint committee, offering such suggestions as they deemed proper. These standards thus formulated have been adopted as the standards of the association of state and national food and dairy departments, and this commission adopts them for its guidance and for the guidance of manufacturers and dealers in these products. This commission will contest the sale of meat products under the designations given in the standards, unless they conform with these standards.

Sausage, sausage meat is a comminuted meat from neat cattle or swine, or a mixture of such meats, either fresh, salted, pickled or smoked, with added salt and spices and with or without the addition of edible animal fats, blood and sugar, or subsequent smoking. It contains no larger amount of water than the meats from which it is prepared contain when in their fresh condition and if it bears a name descriptive of kind, composition or origin, it corresponds to such descriptive name. All animal tissues used as containers, such as casings, stomachs, etc., are clean and sound and impart to the contents no other substance than salt.

Blood sausage is sausage to which has been added clean, fresh blood from neat cattle or swine in good health at the time of slaughter.

Canned meat is the cooked, fresh meat of fowl, neat cattle or swine, preserved in hermetically sealed packages.

Corned or cured meat is meat, cured or pickled with dry salt or in brine, with or without the addition of sugar or syrup and (pending further inquiry) saltpeter.

Potted meat is comminuted and cooked meat from those parts of the animal ordinarily used for food in the fresh state, with

or without salt and spices and enclosed in suitable containers hermetically sealed.

Meat loaf is a mixture of comminuted cooked meat, with or without spices, cereals, milk and eggs, pressed into a loaf. If it bears a descriptive name, it corresponds thereto.

Mince, mince meat, is a mixture of not less than ten (10) per cent of cooked, comminuted meat, with chopped suet, apple and other fruit, salt and spices, and with sugar, syrup or molasses and with or without vinegar, fresh, concentrated, or fermented fruit juices or spirituous liquors.

J. Q. EMERY,  
*Commissioner.*



## STANDARDS, ADULTERATION; MISBRAND- ING, PRESERVATIVES

### STANDARDS OF PURITY.

Chap. 205, Law of 1907. Section 1. There is added to the statutes of 1838 a new section to read: Section 4601-4a. In all prosecutions arising under the provisions of these statutes for the manufacture or sale of an adulterated, misbranded or otherwise unlawful article of food, drink, condiment or drug, the latest standards of purity for food products, established by the United States secretary of agriculture, shall be accepted as the legal standards, except in cases where other standards are specifically prescribed by the laws of this state.

### GENERAL LAW ON ADULTERATION OF FOODS.

Section 4600, statutes of 1838, as amended by chapter 207, laws of 1905. Any person who shall, by himself, his servant or agent or as the servant or agent of any other person, sell, exchange, deliver or have in his possession with intent to sell, exchange, offer for sale or exchange any drug or article of food which is adulterated shall be fined not less than twenty-five dollars nor more than one hundred dollars, or be imprisoned in the county jail not less than thirty days nor more than four months. The term "drug," as used in this section, shall include all medicines for internal or external use, antiseptics, disinfectants and cosmetics. The term "food," as used herein, shall include all articles used for food or drink or condiment by man, whether simple, mixed or compound.

Section 4601, statutes of 1838, as amended by chapter 133, laws of 1903, as amended by chapter 207, of the laws of 1905. An article shall be deemed to be adulterated within the meaning of the preceding section:

1. In the case of drugs: First, if, when sold, or offered or exposed for sale or had in possession with intent to sell, under or by a name recognized in the United States pharmacopoeia, it differs from the standard of strength, quality or purity laid down in the latest current edition thereof; second, if, when sold, or offered or exposed for sale or had in possession with intent to sell, under or by a name not recognized in said pharmacopoeia, but which is found in the pharmacopoeia of some other country, the national formulary or other standard work on materia medica, it differs materially from the standard of strength, quality or purity laid down in the latest current edition of such work; third, if its strength, quality or purity falls below the professed standard under which it is sold.
2. In the case of food: First, if any substance or substances have been mixed with it, so as to lower or depreciate or injuriously affect its strength, quality or purity; second, if any inferior or cheaper substance or substances have been substituted wholly or in part for it; third, if any valuable or necessary ingredient has been wholly or in part abstracted from it; fourth, if it is an imitation of, or sold under the name of, another article; fifth, if it consists, wholly or in part, of a diseased, infected, decomposed, putrid, tainted or rotten animal or vegetable substance or article, whether manufactured or not; sixth, if it is colored, coated, polished or powdered, whereby damage or inferiority is concealed, or if by any means it is made to appear better or of greater value than it really is; seventh, if it contains any added substance or ingredient which is poisonous, injurious, or deleterious to health, or any deleterious substance not a necessary ingredient in its manufacture; provided, that articles of food which are labeled, branded or tagged in a manner showing their exact character and composition and approved by the dairy and food commissioner of the state, and not containing any poisonous or deleterious ingredient shall not be deemed adulterated in the case of mixtures or compounds sold under their own distinct names or under coined names and which articles, if substituted, are not in imitation of, or sold under, the

name of any other article of food; and provided further, that nothing in this act shall be construed as requiring or compelling proprietors or manufacturers of proprietary foods to disclose their trade formulas, except so far as necessary to secure freedom from adulteration, imitation or fraud.

#### GENERAL LAW ON MISBRANDING OF FOODS.

Ch. 173, Laws of 1907. Section 1. There is added to the statutes of 1838 a new section to read: Section 4601aa. Any person, firm or corporation by himself, officer, servant or agent of any other person, firm or corporation, who shall manufacture or solicit or take orders for delivery, or sell, exchange, deliver or have in possession with the intent to sell, exchange or expose, or offer for sale or exchange any article of food within the meaning of section 4900, statutes of 1838, which is misbranded within the meaning of this section shall be guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of not less than twenty-five dollars nor more than one hundred dollars, or by imprisonment in the county jail not less than ten days nor more than sixty days. The term "misbranded," as used herein, shall apply to articles of food, or articles which enter into the composition of food, which, or the package or label of which shall bear any statement, design or device regarding such article or the ingredients or substances contained therein which shall be false or misleading in any particular; or if in package form, and the contents are stated in terms of weight or measure, they are not plainly and correctly stated on the outside of the package; and to any food product which is falsely branded as to the state, territory or country in which it is manufactured or produced. Any article of food shall also be deemed to be misbranded if the contents of the package as originally put up shall have been removed in whole or in part and other contents shall have been placed in such package. The term "label," as used in this section and in section 4601, statutes of 1838, or in any other section of these statutes, relating to the adulteration or misbranding of food, unless otherwise specifically described and provided therein, shall apply to any printed, pictorial or other matter upon or attached to any package of a food product or any container thereof.

It is hereby made the duty of the dairy and food commissioner of this state, by himself, or assistants, chemists, inspectors and agents, to see that the provisions of this section are enforced and for this purpose all the powers conferred upon the said commissioner, his assistants, chemists, inspectors and agents, by section 1410a, 1410b, 1410d, of the statutes of 1838, or by any other provision of these statutes are hereby conferred upon said dairy and food commissioner, his assistants, chemists, inspectors and agents, so far as the same may be applicable.

#### CHEMICAL PRESERVATIVES.

Ch. 33, Laws of 1905. Section 1. No person, firm or corporation shall, by himself, or by his agents or servants, manufacture, sell, ship, consign, offer for sale, expose for sale or have in his possession with intent to sell for use or consumption within the state, any article of food within the meaning of section 4600 of the statutes of 1838 and laws amendatory thereof, which contains formaldehyde, sulphurous acid or sulphites, boric acid or borates, salicylic acid or salicylates, saccharin, dulcin, glucin, beta naphthol, abaristol, acaprol, fluorides, fluoborates, fluosilicates or other fluorine compounds, or any other preservatives injurious to health; provided, however, that nothing contained in this section shall prohibit the use of common salt, saltpetre, wood smoke, sugar, vinegar and condimental preservatives, such as turmeric, mustard, pepper and other spices. Nor shall any person, firm or corporation, by himself, or by his agents or servants, manufacture, sell, ship, consign, offer for sale, expose for sale or have in his possession with intent to sell for use or consumption within the state, any article of food within the meaning of section 4600 of the statutes of 1838 and laws amendatory thereof, containing any added substance, article or ingredient possessing a preservative character or action other than the articles named in the proviso of this act, unless the presence, name and proportionate amount of said added substance, article or ingredient shall be plainly disclosed to the purchaser.

Section 2. Every person, firm or corporation and every officer, agent, servant or employee of such person, firm or corporation who violates any of the provisions of this act shall be deemed guilty of a misdemeanor, and upon conviction thereof, shall be fined not less than twenty-five dollars nor more than one hundred dollars or be imprisoned in the county jail not less than thirty days nor more than sixty days.

## CHEMIST'S ANALYSES.

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Honorable J. Q. EMERY,  
*Dairy and Food Commissioner,*  
Madison, Wisconsin.

Sir:—During the period from January 1, 1908, to June 30, 1908, 778 samples of foods and drugs were analysed in the laboratory of the commission, of which 433 were pronounced unlawful by reason of being adulterated or misbranded. It should be emphasized that these figures and those given in the appended summary do not by any means represent the true condition of the Wisconsin market. In most instances only such samples were sent to the laboratory for analysis as were suspected of being adulterated. In the case of drugs, however, the figures in most cases show the actual conditions of the Wisconsin market in respect to the kinds of drugs analysed.

Respectfully submitted,

RICHARD FISCHER,

*Chemist.*

Article.	No. Sam- ples Ana- lysed.	Passed *s Lawful.	Pronounced Not Lawful.	Not Classified.
Baking powders .....	2	1	1	.....
Beverages .....	29	20	8	1
Butter .....	8	6	2	.....
Canned goods .....	18	3	15	.....
Catsups .....	2	.....	2	.....
Cheese .....	37	14	23	.....
Cream .....	58	42	16	.....
Drugs and medicines .....	371	162	209	.....
Flavoring extracts and essences .....	15	1	14	.....
Flavoring powders .....	9	.....	9	.....
Flours .....	12	11	.....	1
Glucose mixtures .....	14	.....	14	.....
Honey .....	1	1	.....	.....
Ice cream .....	7	4	3	.....
Jellies, jams and preserves .....	3	1	2	.....
Lard .....	3	2	1	.....
Linseed oil .....	6	2	4	.....
Maple sugar .....	2	1	1	.....
Meat products .....	4	2	2	.....
Milks .....	90	45	44	1
Miscellaneous .....	6	3	1	2
Oleomargarine .....	35	3	33	.....
Spices .....	5	3	2	.....
Syrups .....	37	13	24	.....
Vinegars .....	3	.....	3	.....
Total .....	*778	340	433	5

\* This number does not include the 2,256 samples of cream and milk tested by the dairy experts as reported in other pages. The total number of samples analysed by the chemists and tested by the dairy experts for the six months ending June 30, is 2,384, of which 433 were pronounced adulterated or unlawful.

## BAKING POWDER

Ch. 77. Laws of 1907. Section 4901b, statutes of 1898, is amended to read: Section 4901b. Any person who shall, by himself, his servant or agent or by the servant or agent of any other person, make or manufacture baking powder or any mixture or compound intended for use as a baking powder, or sell, exchange or deliver, or have in his possession with the intent to sell or exchange or expose or offer for sale or exchange such baking powder, or any mixture or compound intended for use as a baking powder, unless each receptacle or package in which the same is kept for sale or sold, has securely affixed in a conspicuous place upon the side thereof, and plainly separated from other reading matter, a white or light colored label, upon the outside face of which label shall be printed in the English language, with black ink, in type not smaller than eight point, bold-faced, gothic capitals, the name and address of the manufacturer of such baking powder, and the words: "This baking powder is composed of the following ingredients and none other," and immediately thereafter upon the same label, in color, style and manner above specified, the name of each ingredient contained in such baking powder, using the name by which each ingredient is commonly known, shall be punished as provided in the next preceding section, provided that for the purposes of this act, alum in any form or shape or any aluminum salt shall be designated by the term alum.

Date.	Purchased of	Manufacturer.	Brand.	Remarks.
1908. Jan. 6	Harron Cash Supply Co., Barron....	Calumet Bak. Pow. Co., Chicago.....	Calumet .....	Contains alum. Lawfully labeled.
Jan. 6	Berg Bros. Mercantile Co., Barron..	Calumet Bak. Pow. Co., Chicago.....	Calumet .....	Contains alum. Not lawfully labeled.

**BEVERAGES**

See general laws on adulteration, misbranding and prohibition of chemical preservatives, pages 8-9.  
ADULTERATED BEVERAGES.

Date.	Bought for.	Purchased of or submitted by.	Manufacturer or Jobber.	Brand.	Remarks.
1908. Jan. 8	Port Wine.....	Boston Store, Milwaukee.....	.....	Extra Fine.....	Contains glucose, artificial coloring, saccharin and benzoic acid.
Jan. 11	Port Wine.....	Schuckmann & Seligman, Milwaukee	.....	Fine Old Port..	Contains glucose, artificial coloring, saccharin and benzoic acid.
Jan. 27	Cider .....	*Mrs. Anna Sweet, Fond du Lac	.....	.....	Contains large amount of benzoic acid.
Apr. 3	White Pop.....	A. R. Nitz Co., Milwaukee.....	A. R. Nitz Co., Milwaukee.....	.....	Contains 0.01 per cent. saccharin.
Apr. 3	Red Pop.....	A. R. Nitz Co., Milwaukee.....	A. R. Nitz Co., Milwaukee.....	.....	Contains 0.008 per cent. saccharin.
May 4	Rye Whiskey ....	* Dr. Geo. R. Baker, Tomahawk	.....	.....	Composed of dilute alcohol, artificial coloring, and flavoring.
June 8	Red Pop .....	United States Hotel, Sauk City..	Sauk City Bottling Works, Sauk City, Wis.	.....	Contains 0.001 per cent. saccharin.
June 23	Artificial Wild Cherry and Phosphate, col- ored .....	Geo. Hale & Son, Kenosha.....	Puhl-Webb Co., Chicago.....	.....	Artificially colored.

\* Submitted.

## OTHER BEVERAGES.

Date.	Kind.	Purchased of or submitted by.	Manufacturer or Jobber.	Brand.	Remarks.
1908.					
Jan. 1	Malt Beverage..	* Samuel Tufts, President of village, Knapp	Schuckmann & Seligman, Milwaukee, Wis.	.....	Alcohol (by wt.) 1.53 per cent. Passed.
Jan. 11	Port Wine .....	Schuckmann & Seligman, Milwaukee	.....	.....	.....
Jan. 28	Coffee Substitute	* Peter Wagner, Cleveland.....	.....	.....	Consists of roasted banana starch. Tested for wood alcohol. None present. Passed.
Feb. 3	Whiskey .....	* G. A. Marshall, Darlington.....	.....	.....	.....
Apr. 17	Port Wine.....	Samuel Riegelman, E. Water St., Milwaukee,	.....	Taragona Port, Type.	.....
May 5	Pop .....	The Sherlock Hotel bar, Madison.	Lake City Bottling Works, Madison, Wis.	.....	Sucrose 11.81 per cent. Passed.
June 2	Beer .....	Fred Harbort, Prop., Schlitz Hotel, Madison.	Val. Blatz Brewing Co., Milwaukee, Wis.	Private Stock..	No preservatives found.
June 2	Beer .....	Fabst Saloon, E. Washington Ave., Madison.	Pabst Brewing Co., Milwaukee, Wis.	Blue Ribbon....	No preservatives found.
June 2	Beer .....	Fabst Saloon, E. Washington Ave., Madison.	Pabst Brewing Co., Milwaukee, Wis.	Red, White and Blue	No preservatives found.
June 2	Beer .....	Sherlock Hotel, Madison.....	Schlitz Brewing Co., Milwaukee, Wis.	Export .....	No preservatives found.
June 2	Beer .....	Matt. Statz, Madison.....	Anheuser-Busch Brewing Ass'n., St. Louis	Budweiser .....	No preservatives found.
June 2	Beer .....	The Rathskeller, Madison.....	Fred Miller Brewing Co., Milwaukee, Wis.	High Life.....	No preservatives found.
June 4	Beer .....	Jos. Brodrick, Madison.....	Hausmann Brewing Co., Madison, Wis.	.....	No preservatives found.
June 4	Beer .....	Jos. Brodrick, Madison.....	Fauerbach Brewing Co., Madison, Wis.	Export .....	No preservatives found.
June 4	Beer .....	Jos. Brodrick, Madison.....	Fauerbach Brewing Co., Madison, Wis.	Export .....	No preservatives found.
June 4	Beer .....	Jos. Brodrick, Madison.....	Breckheimer Brewing Co., Madison, Wis.	Pale .....	No preservatives found.
June 12	White Wine.....	* W. J. Wittich, Milwaukee.....	.....	.....	Passed.
June 16	White Pop.....	J. Mann, Middleton.....	Middleton Bottling Co., Middleton, Wis.	.....	Passed.

\* Submitted.

OTHER BEVERAGES (continued.)

Date.	Kind.	Purchased of or submitted by	Manufacturer or Jobber.	Brand.	Remarks.
1908. June 1 <sup>6</sup>	Red Pop	J. Mann, Middleton	Middleton Bottling Co., Middle- ton, Wis.	.....	Passed.
June 1 <sup>6</sup>	Beer	Phillip Schneider, Middleton	Pleasant Branch Brewing Co., Pleasant Branch, Wis.	.....	No preservatives found.
June 1 <sup>6</sup>	Beer	J. Adler, Cross Plains	Geo. H. Esser, Cross Plains, Wis.	Xmas Brew	No preservatives found.

BUTTER

Butter is the clean, non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than eighty-two and five-tenths (82.5) per cent of milk fat. By authority of law, butter may also contain added coloring matter."

BUTTER PASSED AS LAWFUL.

Date.	Sold for.	Purchased of or submitted by.	Remarks.
1908. Jan. 2 <sup>6</sup>	Dairy Butter	W. W. Nash, Janesville	Pronounced butter.
Jan. 2 <sup>6</sup>	Dairy Butter	W. W. Nash, Janesville	Pronounced butter.
Jan. 2 <sup>6</sup>	Dairy Butter	The Grubb Produce Co., Janesville	Pronounced butter.
Mar. 6	Butter	W. H. Lester, Edgerton	Moisture 10.65 per cent.
Apr. 7	Butter	* J. G. Moore, Madison	Moisture 13.15 per cent.
June 2	Butter	Medina Cry. Co., Marshall	Moisture 14.3 per cent.

ADULTERATED BUTTER.

Jan. 7	Butter	* W. J. Litts, Janesville	Contains foreign fat.
Jan. 13	Butter	Jahnke Cry. Co., Watertown	Contains butter fat that had been pre- viously melted.

\* Submitted.



CANNED GOODS

"Canned fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating, with or without sugar (sucrose) and spices, and keeping in suitable, clean, hermetically sealed containers and conforms in name to the fruit used in its preparation."  
 "Canned vegetables are sound, properly matured and prepared fresh vegetables, with or without salt, sterilized by heat, with or without previous cooking in vessels from which they take up no metallic substance, kept in suitable, clean, hermetically sealed containers, are sound and conform in name to the vegetables used in their preparation."

Section 4301a, Statutes of 1898, as amended by chapter 104, laws of 1905: Any person who shall, himself, or by his servant or agent, or as the servant or agent of any other person, pack, can or preserve within this state, for use or consumption thereof, fruits, vegetables, meats, fish or shell-fish or who shall sell, exchange, deliver or have in his possession with intent to sell, or exchange or expose for sale, or offer for sale or exchange for use or consumption within this state such canned articles containing saccharin, formaldehyde, sulphurous acid or sulphites, salicylic acid, or salicylates or any substance, article or ingredient other than sugar, salt, vinegar or spices, possessing a preservative character or action, or any copper compound or other artificial coloring, or any bleaching compound, or any article injurious to health; or any person who shall, himself, or by his servant or agent, or as the servant or agent of any other person, pack, can or preserve within this state for use or consumption thereof, fruits, vegetables, meats, fish or shell-fish, or who shall sell, exchange, deliver, or have in his possession with intent to sell or exchange, or expose for sale, or offer for sale or exchange for use or consumption within this state, such canned articles, unless each can containing such articles shall bear a label on which shall be printed the true name of the contents and the name and address of the producer or packer, canning or preserving the same, or the dealer who sells the same, shall be guilty of a misdemeanor, and, upon conviction thereof, shall be fined not less than twenty-five dollars, nor more than one hundred dollars or be imprisoned in the county jail not less than thirty days nor more than sixty days.

CANNED GOODS PASSED AS LAWFUL.

Date.	Kind.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908.					
Feb. 7	French Peas .....	Kann & Bachman, Eau Claire..	Sprague, Warner & Co., Chicago	Emillen .....	
May 6	Shrimp .....	W. A. Oappel, Madison.....	The Pass Packing Co., Pass Christian, Miss.	Ucata .....	
May 6	Shrimp .....	W. A. Oappel, Madison.....	G. W. Dunbar's Sons, New Orleans, La.	Barataria .....	

UNLAWFUL CANNED GOODS.

Date.	Kind.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1907. Dec. 17	Imported Peas ..	C. Peterson & Co., Amery.....	.....	Extra Fine .....	Artificially colored with a salt of copper.
1908. Jan. 14	Cherries .....	Chas. Waltzinger, Madison.....	Cleveland Fruit Juice Co., Cleveland, O.	.....	Artificially colored.
Feb. 24	French Peas .....	E. M. Worden, Ladysmith.....	Geo. Cadeau, Bordeaux, France.	.....	Artificially colored with a salt of copper.
Mar. 4	Maraschino Cherries.	Geo. Hall & Son, Kenosha.....	Oscar Silberschmidt, Kenosha...	Victor .....	Contains sulphur dioxide.
Apr. 17	Maraschino Cherries.	Johnson Bros., Neenah.....	Reid, Murdock & Co., Chicago..	Conteaux .....	Artificially colored and preserved with benzoate of soda.
Apr. 17	Maraschino Cherries.	Wm. Steinmeyer Co., Milwaukee.	Rheinstrom Bros., Cincinnati, Ohio.	Rosebuds .....	Artificially colored. Contains sulphurous acid.
May 1	Maraschino Cherries.	Evans Bros., Oshkosh.....	Cincinnati Extract Works Co., Cincinnati, O.	.....	Artificially colored and preserved with benzoate of soda.
May 1	Maraschino cherries.	Rasmussen & Miller, Oshkosh...	Reid, Murdock & Co., Chicago..	Conteaux .....	Artificially colored and preserved with benzoate of soda.
May 4	Maraschino Cherries.	G. B. Aschenbrenner, Eau Claire.	Reid, Murdock & Co., Chicago..	Conteaux .....	Artificially colored and preserved with benzoate of soda.
May 4	Maraschino Cherries.	Feitzlauff & Wink, 584 Mitchell St., Milwaukee.	Reid, Murdock & Co., Chicago..	Conteaux .....	Artificially colored and preserved with benzoate of soda.
May 5	Maraschino cherries.	Piper Bros., "No. 3 Store," Madison.	Jules Gaston et Cie., France.....	.....	Contains artificial color and sulphurous acid or a salt thereof.
May 8	Maraschino Cherries.	Louis Russos, Madison.....	Ad. Seidel & Sons, Chicago.....	Royal .....	Contains artificial color and preserved with benzoic acid.

## UNLAWFUL CANNED GOODS—Continued.

Date.	Kind.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. May 8	Maraschino Cherries.	Mahla & Burdett, Eau Claire...	Franklin MacVeagh, Chicago....	Club House....	Artificially colored.
June 23	Maraschino Cherries.	Scholer & Funck, Kenosha.....	McNeil & Higgins Co., Chicago.	None Such .....	Artificially colored and preserved with benzoic acid or a salt thereof.
June 23	Maraschino Cherries.	Oscar Silberschmidt, Kenosha...	.....	.....	Artificially colored.

## CATCHUPS

"Catchup (ketchup, catsup) is the clean, sound product made from the properly prepared pulp of clean, sound, fresh, ripe tomatoes, with spices and with or without sugar and vinegar; mushroom catsup, walnut catsup, et cetera, are catchups made as above described, and conform in name to the substances used in their preparation."

Date.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Feb. 19	Sol Levitan, Madison.....	The VanCamp Packing Co., Indianapolis, Ind.	VanCamp's ...	Labeled "Oyster Cocktail Catsup," Artificially colored and preserved with benzoic acid. Adulterated.
Mar. 2	Gould, Wells & Blackburn Co., Madison.	The VanCamp Packing Co., Indianapolis, Ind.	VanCamp's ...	Labeled "VanCamp's Oyster Cocktail Catsup," Artificially colored and preserved with benzoic acid. Adulterated.

CHEESE

"Cheese is the sound, solid, and ripened product made from milk or cream by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning, and contains, in the water-free substance, not less than fifty (50) per cent of milk fat. By authority of law, cheese may also contain added coloring matter."

CHEESE PASSED AS LAWFUL.

Date.	Purchased for.	Labeled.	Purchased of or Submitted by	Manufacturer or Jobber.	Per cent fat.	Per cent water-free substance.	Remarks.
1908. Jan. 16 Feb. 27	Fromage de Brie.	Fromage de Brie, D'Isigny Style.	*U. S. Baer, Madison. O. R. Pieper, W. Water St., Milwaukee.		27.0	45.7	
Feb. 27	Fromage de Brie.	Fromage D'Isigny, Fromage de Brie.	Adolf Dernehl, W. Water St., Milwaukee.		23.7	47.3	
Feb. 27	Hand Cheese..		Adolf Dernehl, W. Water St., Milwaukee.		4.0	37.3	A skin-milk cheese.
Feb. 27	Imported Camembert Cheese.	Edelweiss Camembert Type.	Adolf Dernehl, W. Water St., Milwaukee.		31.0	50.0	
Feb. 27	Foreign Cheese.	Liederkrantz Specialtaet.	Adolf Dernehl, W. Water St., Milwaukee.		24.8	45.0	
Feb. 27	French Cream Cheese.	Veritable Fromage, demi sel de la maison.	Adolf Dernehl, W. Water St., Milwaukee.		40.0	53.0	
Mich. 27	Cream Cheese.	Blue Label Cream Cheese.	Adolf Dernehl, W. Water St., Milwaukee.	Fred J. Karlen, Winslow, Ill.	63.3	73.0	
Mich. 2	Cream Cheese.	Waukesha Cream Cheese, Arrow Brand.	E. F. Ester, Madison.	Wis. Butter & Cheese Co., Waukesha.	68.0	78.0	
Mich. 3	Sedan Cheese..	Dessert Sedan Kaese.	Otto Behle, Rolling Prairie.	Behle Bros., Rolling Prairie.	28.0	50.0	

\* Submitted.

## CHEESE PASSED AS LAWFUL—Continued.

Date.	Purchased for.	Labeled.	Purchased of or Submitted by	Manufacturer or Jobber.	Per cent fat.	Per cent water-free substance.	Remarks.
1908. Mch. 3	Specialtinaet Cheese.	Specialtinaet .....	Otto Behle, Rolling Prairie.	Behle Bros., Rolling Prairie.	32.0	55.0	
Mch. 7	Hand Cheese.	.....	Adolf Dernehl, W. Water St., Milwaukee.	.....	2.4	50.2	A skim-milk cheese.
Mch. 7	Kaiser Kaese.	Kaiser Kaese .....	Adolf Dernehl, W. Water St., Milwaukee.	.....	27.0	.....	
Mch. 7	Liederkranz Cheese.	Liederkranz .....	Adolf Dernehl, W. Water St., Milwaukee.	.....	38.0	.....	

## UNLAWFUL CHEESE.

Jan. 22	Lunch Cheese.	.....	"M. Michels, Madison.	.....	.....	.....	A skim-milk cheese.
Feb. 27	Lunch Cheese.	Miniature Lunch Brie, Strictly Pure.	Wm. Uebelhack, 1072 3rd St., Milwaukee.	H. B. Stanz, Milwaukee.	12.4	41.4	A skim-milk cheese.
Feb. 27	Cream Cheese.	Philadelphia Cream Cheese, Z. C. C. Durham brand.	D. Durkman, 447 6th St., Milwaukee.	.....	9.2	30.0	A skim-milk cheese.
Feb. 27	Cream Cheese.	New Century Neuchatel Cheese.	Chas. Schweighofer, 708 $\frac{1}{2}$ Grand Ave., Milwaukee.	.....	16.6	40.0	A skim-milk cheese.
Feb. 27	Cream Cheese.	.....	O. R. Pieper, W. Water St., Milwaukee.	.....	23.0	57.0	Not a cream cheese.
Feb. 27	Camembert Cheese.	American Camembert, Gold Medal.	Wm. Steinmeyer Co., 3rd St., Milwaukee.	Zealand Cheese Co., Zealand, Mich.	11.0	35.0	A skim-milk cheese.
Feb. 27	Fromage de Brie.	Fromage D'Isigny, American Type, "Partly skimmed" (in small letters), Durham brand.	Wm. Steinmeyer Co., 3rd St., Milwaukee.	.....	8.0	34.3	A skim-milk cheese.

\* Submitted.

UNLAWFUL CHEESE—Continued.

Date.	Purchased for.	Labeled.	Purchased of or Submitted by	Manufacturer or Jobber.	Per cent fat.	Per cent water-free substance.	Remarks.
1908. Feb. 27	Imported Camembert Cheese.	Veritable Camembert. Elite-Tripie Creme.	Adolf Dernehl, W. Water St., Milwaukee.	.....	28.0	56.0	Misbranded. Not a "triple cream" cheese.
Feb. 27	Foreign Cheese.	Aechter Allgauer Romadour Kaese.	Adolf Dernehl, W. Water St., Milwaukee.	.....	19.4	58.6	A skim-milk cheese.
Feb. 27	Cream Cheese.	Kaiser Kaese .....	Adolf Dernehl, W. Water St., Milwaukee.	.....	28.8	51.0	Not a cream cheese.
Feb. 27	Cream Cheese.	Fromage de Neufchatel. Brand, Z. C. C. Durham.	Adolf Dernehl, W. Water St., Milwaukee.	.....	10.4	35.0	A skim-milk cheese.
Mich. 3	Fromage de Brie.	Fromage de Brie .....	Otto Behle, Rolling Prairie.	Behle Bros., Rolling Prairie.	26.0	48.0	Not a true "fromage de Brie." Misbranded.
Mich. 3	Fromage de Brie.	Fromage de Brie, D'Isigny.	Otto Behle, Rolling Prairie.	Behle Bros., Rolling Prairie.	21.0	38.3	Not a true "fromage de Brie." Misbranded.
Mich. 3	Fromage de Camembert	Veritable Fromage de Camembert, Aoge Freres.	Otto Behle, Rolling Prairie.	Behle Bros., Rolling Prairie.	27.0	49.2	Not a true Camembert cheese. Misbranded as to name and name of manufacturer.
Mich. 3	Neufchatel Cheese.	B—Neufchatel—E.....	Otto Behle, Rolling Prairie.	Behle Bros., Rolling Prairie.	25.0	44.8	Not a true Neufchatel cheese. Misbranded.
Mich. 7	Miniature Lunch Brie Cheese.	Miniature Lunch Brie	H. B. Stanz, 609 Clinton St., Milwaukee.	.....	14.0	45.3	A skim-milk cheese.
Mich. 7	American Camembert Cheese.	American Camembert, Gold Medal brand.	Wm. Steinmeyer, Milwaukee.	Zealand Cheese Co., Zealand, Mich.	11.0	35.7	A skim-milk cheese.

## UNLAWFUL CHEESE—Continued.

Date.	Purchased for.	Labeled.	Purchased of or submitted by	Manufacturer or Jobber.	Per cent fat.	Per cent water-free substance.	Remarks.
1908. Mch. 7	Fromage D'Isigny.	Fromage D'Isigny, American Type, Durham brand, "Partly skimmed," (in small letters), American Camembert, Gold Medal brand.	Wm. Steinmeyer, Milwaukee.	Zeeland Cheese Co., Zeeland, Mich.	10.0	37.0	A skim-milk cheese. Held to be not lawfully labeled.
Mch. 7	American Camembert Cheese.	Aechter Allgauer Romadour Kaese.	Adolf Dernel, W. Water St., Milwaukee.	Zeeland Cheese Co., Zeeland, Mich.	11.0	42.2	A skim-milk cheese.
Mch. 7	Allgauer Cheese.	Aechter Allgauer Romadour Kaese.	Adolf Dernel, W. Water St., Milwaukee.	Zeeland Cheese Co., Zeeland, Mich.	16.0	54.6	A skim-milk cheese.
Mch. 7	Fromage de Neufchatel.	Fromage de Neufchatel Z. C. C., Durham brand.	Adolf Dernel, W. Water St., Milwaukee.	Zeeland Cheese Co., Zeeland, Mich.	8.0	30.4	A skim-milk cheese.
May 1	Cream Cheese.	Maple Leaf Canadian Cream Cheese.	Rasmussen & Miller, Oshkosh.	Reid, Murdock & Co., Chicago.	36.0	67.0	Not a cream cheese.
May 8	Cream Cheese.	English Dairy Brand Potted Cream Cheese.	D. M. Benson & Co., Madison.	J. L. Kraft & Bros., Chicago.	36.8	67.0	Not a cream cheese.

CREAM

"Cream is ant portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean and contains not less than eighteen (18) per cent of milk fat." For law defining "adulterated cream," see D. 56.  
CREAM SAMPLES COLLECTED BY INSPECTORS.

Date.	Purchased of	Per cent fat.	Remarks.
1905.			
Jan. 21	J. E. Durfey, Model Cry. Co., Madison.....	19.6	Below legal standard in fat.
Jan. 31	John Puls, Fountain City.....	13.23	Below legal standard in fat.
Feb. 5	Ole Johnson, Ellsworth.....	36.5	Below legal standard in fat.
Feb. 25	Kasper Zweifel, La Crosse.....	15.0	Below legal standard in fat.
Feb. 25	Mrs. F. McDonald, La Crosse.....	14.75	Below legal standard in fat.
Feb. 25	Chas. Manske, La Crosse.....	13.1	Below legal standard in fat.
Feb. 25	D. B. Phelps, La Crosse.....	16.25	Below legal standard in fat.
Feb. 25	Martin Boma, La Crosse.....	13.15	Below legal standard in fat.
Feb. 25	L. Casperson, La Crosse.....	15.0	Below legal standard in fat.
Mch. 7	K. A. Borgen, Eau Claire.....	17.45	Below legal standard in fat.
Mch. 9	G. F. Comings & Son, Eau Claire.....	16.45	Below legal standard in fat.
Mch. 9	W. H. Kneeland, Eau Claire.....	16.1	Below legal standard in fat.
Mch. 9	W. H. Smith, Eau Claire.....	16.0	Below legal standard in fat.
Mch. 24	Model Creamery, Madison.....	31.0	Below legal standard in fat.
May 8	H. F. Berndt, West Rosendale.....	22.8	
May 11	Lysoud Moran, Rosendale.....	36.1	
June 4	J. M. Reublin, Gays Mills.....	27.0	
June 5	H. H. Wichman, Bell Center.....	24.0	
June 5	H. H. Wichman, Bell Center.....	24.0	
June 24	Woman's Exchange, Milwaukee.....	26.0	Whipped cream.

SUBMITTED CREAM SAMPLES.

Jan. 20	O. M. Salisbury, Madison.....	8.00
Jan. 20	Dr. H. O. Delaney, Health Officer, Beloit.....	18.5
Feb. 23	C. G. Garrett, Cumberland.....	37.6
Mch. 2	M. Feutling, Sun Prairie.....	28.4
Mch. 16	Otto Sons, Seymour.....	17.6
Mch. 30	Theo. Neumann, Fairchild.....	22.8



## SUBMITTED CREAM SAMPLES—Continued.

Date.	Submitted by	Per cent fat.	Remarks.
1908.			
Apr. 1	F. A. Chandler, Steubien.	22.0	
Apr. 1	Koch & Chambers, Rudolph.	24.4	
Apr. 1	W. W. Kaschube, Rosendale.	27.6	
Apr. 1	Chas. Schmidt, Rosendale.	25.55	
Apr. 2	J. A. Dyer, Rosendale.	24.5	
Apr. 2	Hans Holm, Cumberland.	33.0	Marked "Hans Holm."
Apr. 2	Hans Holm, Cumberland.	32.0	Marked "Pete Rasmussen."
Apr. 8	A. C. Kretlaw, Cashion.	16.8	
Apr. 8	F. H. Ahrens, Hustler.	18.6	
May 2	Stanton McVey, Rockton.	20.0	Sample No. 1.
May 2	Stanton McVey, Rockton.	22.8	Sample No. 2.
May 2	Stanton McVey, Rockton.	25.6	Sample No. 3.
May 2	Stanton McVey, Rockton.	21.6	Sample No. 4.
May 2	Stanton McVey, Rockton.	16.0	Sample No. 5.
May 2	Stanton McVey, Rockton.	20.8	Sample No. 6.
May 2	Stanton McVey, Rockton.	24.0	Sample No. 7.
May 4	D. D. Shea, Arena.	26.2	Sample No. 8.
May 11	J. P. Jones, Georgetown.	18.8	Sample No. 8.
June 1	Otto Eberhart, Camp Douglas.	22.5	Marked "Tom Marks."
June 1	R. J. Baird, Fox Lake.	30.1	
June 1	M. Summerton, Endeavor.	27.2	
June 1	Geo. Riddle, Dousman, R. 33.	40.4	
June 4	J. H. Jensen, Edgerton, J. D.	38.4	
June 15	I. L. Wentworth, Edgerton.	22.6	
June 15	Wm. Kanauer, Milton Junction.	27.6	
June 17	Geo. Riddle, Dousman, R. 33.	22.6	
June 18	W. H. Lester, Edgerton.	41.8	
June 22	M. Summerton, Endeavor, R. 1.	20.8	
June 24	John Smith, Endeavor, R. 1.	22.4	
June 24	J. H. Bogert, Hustler.	95.2	Sample "No. 1."
June 24	J. H. Bogert, Hustler.	18.1	Sample "No. 2."

**DRUGS AND MEDICINES**

See general law on adulteration of drugs, pages 8-9.

*Alcohol* (ALCOHOL)

While the latest current edition of the U. S. pharmacopoeia requires alcohol to have a strength of 94.9 per cent by volume, it appears that almost all the alcohol bought by Wisconsin druggists has a strength of 94 per cent by volume (183 proof), which was the strength official in the U. S. pharmacopoeia of 1890. The following samples were of approximately that strength:

**Alcohol of Approximately 94 Per Cent Strength by Volume.**

Date.	Purchased of	Address.
1908.		
Jan. 11	Gimbel Bros.....	Milwaukee.
Jan. 22	C. W. Whitman.....	Baraboo.
Feb. 5	J. P. Baker.....	Janesville.
Feb. 10	Red Cross Drug Co.....	Superior.
Feb. 10	Guarantee Drug Co.....	Superior.
Feb. 10	Aug. E. Holmberg Drug Co.....	Superior.
Feb. 10	Slocumb's Pharmacy.....	Superior.
Feb. 28	Collyer's Pharmacy.....	Madison.
Feb. 28	Hollister Drug Co.....	Madison.
Feb. 25	Weaver & Dettloff.....	Madison.
Feb. 28	A. W. Krehl.....	Madison.
Feb. 28	Andrew A. Mayers.....	Madison.
Mch. 5	Sumner & Cranston.....	Madison.
Mch. 8	The Menges Pharmacy, University Ave.....	Madison.
Mch. 8	Chas. H. Naffz.....	Madison.
Mch. 5	Edwin Sumner & Son.....	Madison.
Mch. 5	The Menges Pharmacy, Midlin St.....	Madison.
Mch. 5	C. L. Bobb.....	Madison.
Mch. 5	Ott's Pharmacy.....	Madison.
Mch. 3	A. A. Pardee.....	Madison.
Mch. 3	Williams' Pharmacy.....	Madison.
Mch. 3	Weaver & Dettloff.....	Madison.
Apr. 1	Cumberland Drug Co.....	Cumberland.
Apr. 1	Danielson Drug Co.....	Cumberland.
Apr. 11	Woodhead's Drug Store.....	Ashland.
Apr. 11	Harrison Drug Co.....	Ashland.
Apr. 11	Weed's Drug Store.....	Ashland.
Apr. 11	Warner Bros.....	Ashland.
Apr. 29	Eureka Drug Store.....	New Richmond.
Apr. 29	W. W. Beebe.....	New Richmond.
Apr. 25	Winter & Sherman.....	New Richmond.

**Alcohol Diluted with Water**

Date.	Purchased of	Address.	Per cent Alcohol (by vol.)
1908.			
Jan. 22	Wm. E. Barringer.....	Baraboo.....	81.4
Feb. 4	Good Luck Drug Store.....	Chippewa Falls.....	83.7
Feb. 24	Henry Lewis.....	Madison.....	83.86

*Aqua Ammonia* (AMMONIA WATER)

"Ammonia Water" of the U. S. pharmacopoeia should contain 10 per cent by weight of ammonia gas. It is specifically stated in the text of the pharmacopoeia that the solution deteriorates on keeping and should be tested frequently, and that it must not be dispensed for medicinal purposes if it contains less than 10 per cent by weight of the gas.

Date.	Purchased of	Per cent ammonia gas.
1908.		
Jan. 22	C. W. Whitman, Baraboo.....	7.0
Jan. 29	The Oregon Drug Co., Oregon.....	4.3
Jan. 30	F. A. Rhyme, Portage.....	3.63
Jan. 30	R. J. Strauss, Marshfield.....	3.95
Feb. 11	Garvey's Pharmacy, Prairie du Chien.....	6.4

*Aqua Hamamelidis* (HAMAMELIS WATER) (WITCH HAZEL)

Hamamelis water, according to the U. S. pharmacopoeia, contains the volatile products of hamamelis bark obtained by distillation and should contain in the finished product 14.25 per cent of ethyl alcohol by volume.

## Hamamelis Water Passed as Lawful

Date.	Purchased of	Address.
1908.		
Jan. 22	Fisher Bros.....	Baraboo.
Jan. 22	C. W. Whitman.....	Baraboo.
Feb. 5	W. T. Sherer.....	Janesville.
Feb. 10	Guarantee Drug Store.....	Superior.
Feb. 10	Aug. E. Holmberg Drug Co.....	Superior.
Feb. 27	Henry Lewis.....	Madison.
Mch. 25	Aug. J. E. Benn.....	Medford.
Apr. 1	Red Cross Pharmacy.....	Cumberland.
Apr. 1	Danielson Drug Co.....	Cumberland.
Apr. 11	Harrison Drug Co.....	Ashland.
Apr. 11	Weed's Drug Store.....	Ashland.
Apr. 11	Warner Bros.....	Ashland.
Apr. 29	Eureka Drug Store.....	New Richmond.
Apr. 29	W. W. Beebe.....	New Richmond.

## Hamamelis Water not Lawful

Date.	Purchased of	Address.	Remarks.
1908.			
Jan. 28	Dr. J. E. Barnstein ...	Manitowoc .....	70 per cent of official strength in alcohol; also contains formaldehyde.
Jan. 29	The Oregon Drug Co....	Superior .....	66.6 per cent of official strength in alcohol.
Feb. 6	D. H. Pollock & Co....	Beloit .....	Contains wood alcohol and formaldehyde.
Feb. 10	Slocumb's Pharmacy ...	Cumberland .....	73 per cent of official strength in alcohol.
Apr. 1	Cumberland Drug Co....	Ashland .....	83 per cent of official strength in alcohol.
Apr. 11	Woodhead's Drug Store.	New Richmond ...	87 per cent of official strength in alcohol.
Apr. 29	Winter & Sherman .....	Oregon .....	83 per cent of official strength in alcohol.

*Aqua Hydrogenii Dioxidi* (HYDROGEN PEROXIDE)

The official solution of hydrogen dioxide contains about 3 per cent by weight of absolute hydrogen dioxide.  
All of the samples analysed were passed as lawful.

Date.	Purchased of	Address.
1908.		
Jan. 22	C. W. Whitman .....	Baraboo.
Feb. 10	Red Cross Drug Co. ....	Superior.
Feb. 10	Guarantee Drug Store .....	Superior.
Feb. 10	Aug. E. Holmberg Drug Co. ....	Superior.
Feb. 10	Slocumb's Pharmacy .....	Superior.
Apr. 1	Cumberland Drug Co. ....	Cumberland.
Apr. 1	Danielson Drug Co. ....	Ashland.
Apr. 11	Woodhead's Drug Store .....	Ashland.
Apr. 11	Harrison Drug Co. ....	Ashland.
Apr. 11	Weed's Drug Store .....	Ashland.
Apr. 11	Warner Bros. ....	Ashland.
Apr. 29	Eureka Drug Store .....	New Richmond.
Apr. 29	W. W. Beebe .....	New Richmond.
Apr. 29	Winter & Sherman .....	New Richmond.

*Camphora* (CAMPHOR)

All samples analysed were passed as lawful.

Date.	Purchased of	Address.
1908.		
Feb. 5	L. A. Christensen .....	Baldwin.
Feb. 6	J. L. Moody & Co. ....	Ellsworth.
Feb. 6	East Ellsworth Drug Store .....	East Ellsworth.
Mch. 9	A. A. Pardee .....	Madison.
Mch. 18	J. P. Baker .....	Janesville.
Mch. 24	The Collette Drug Store .....	Chippewa Falls.

*Cera Alba* (WHITE WAX)

White Wax Passed as Lawful

Date.	Purchased of	Address.
1908.		
Jan. 22	C. W. Whitman .....	Baraboo.
Feb. 10	Red Cross Drug Co. ....	Superior.
Feb. 10	Guarantee Drug Store .....	Superior.
Feb. 10	Aug. E. Holmberg Drug Co. ....	Superior.
Feb. 10	Slocumb's Pharmacy .....	Superior.
Apr. 1	Danielson Drug Co. ....	Cumberland.

Adulterated White Wax

Date.	Purchased of	Address.	Remarks.
1908.			
Apr. 1	Cumberland Drug Co. ....	Cumberland.	Paraffin 80 per cent
Apr. 1	Red Cross Pharmacy .....	Cumberland.	Paraffin 66 per cent

## Liquor Calcis (LIME WATER)

The official lime water of the U. S. pharmacopoeia is intended to be a saturated aqueous solution of calcium hydroxide and should contain not less than 0.14 per cent of pure calcium hydroxide.

## Lime Water Passed as Lawful

Date.	Purchased of	Address.
1908.		
Jan. 22	C. W. Whitman .....	Baraboo.
Feb. 10	Guarantee Drug Store .....	Superior.
Feb. 10	Aug. E. Holmberg Drug Co. ....	Superior.
Feb. 10	Slocum's Pharmacy .....	Superior.
Apr. 11	Woodhead's Drug Store .....	Ashland.
Apr. 11	Weed's Drug Store .....	Ashland.
Apr. 11	Warner Bros. ....	Ashland.
Apr. 29	Eureka Drug Store .....	New Richmond.
Apr. 29	Winter & Sherman .....	New Richmond.

## Lime Water Deficient in Calcium Hydrate

Date.	Purchased of	Address.	Per cent Calcium Hydrate.
1903.			
Jan. 20	R. J. Strauss .....	Marshfield .....	0.009
Feb. 10	Red Cross Drug Co. ....	Superior .....	0.12
Apr. 1	Cumberland Drug Co. ....	Cumberland .....	0.10
Apr. 1	Danielson Drug Co. ....	Cumberland .....	Practically none.
Apr. 11	Harrison Drug Co. ....	Ashland .....	0.103
Apr. 29	W. W. Beebe. ....	New Richmond .....	0.11

## Liquor Potassii Arsenitis (FOWLER'S SOLUTION)

Fowler's solution should contain 1 per cent of arsenic trioxide, and since the arsenic trioxide of the U. S. pharmacopoeia should contain not less than 99.3 per cent of pure arsenic trioxide, the solution of potassium arsenite should contain not less than 0.998 gms. of absolute arsenic trioxide in 100 gms. of the solution.

## Fowler's Solution Passed as Lawful

Date.	Purchased of	Address.
1908.		
Apr. 1	Danielson Drug Co. ....	Cumberland.
Apr. 11	Woodhead's Drug Store .....	Ashland.
Apr. 11	Harrison Drug Co. ....	Ashland.
Apr. 11	Weed's Drug Store .....	Ashland.
Apr. 29	Eureka Drug Store .....	New Richmond.
Apr. 29	Winter & Sherman .....	New Richmond.

Fowler's Solution Below Legal Standard

Date.	Purchased of	Address.	Per cent Arsenic Trioxide.
1908.			
Jan. 22	J. D. Hatch .....	Lancaster .....	0.46
Jan. 22	C. W. Whitman .....	Baraboo .....	0.80
Jan. 23	H. F. McDonald, M. D. ....	Hollandale .....	0.94
Feb. 10	Red Cross Drug Co. ....	Superior .....	0.91
Feb. 10	Guarantee Drug Store. ....	Superior .....	0.85
Feb. 10	A. E. Holmberg Drug Co. ....	Superior .....	0.83
Feb. 10	Slocumb's Pharmacy .....	Superior .....	0.80
Apr. 1	Cumberland Drug Co. ....	Cumberland .....	0.83
Apr. 1	Red Cross Pharmacy. ....	Cumberland .....	0.47

*Oleum Olivae* (OLIVE OIL)

Olive Oil Passed as Lawful

Date.	Purchased of	Address.
1908.		
Jan. 22	J. D. Hatch. ....	Lancaster.
Jan. 27	E. A. Horn .....	Oshkosh.
Jan. 27	Chas. F. Behnke. ....	Oshkosh.
Jan. 30	F. A. Rhyme. ....	Portage.

Adulterated Olive Oil

Date.	Purchased of	Address.	Remarks.
1908.			
Jan. 22	C. W. Whitman .....	Baraboo .....	Contains 10 per cent cotton-seed oil.
Jan. 28	Tannar's Drug Store. ....	South Kaukauna ..	Heavily adulterated with cotton-seed oil.
Jan. 28	Adolph Wolff .....	Manitowoc .....	Contains about 20 per cent cotton-seed oil.
Jan. 28	J. E. Barnstein & Son .....	Manitowoc .....	Contains about 25 per cent cotton-seed oil.

*Oleum Terebinthinae* (OIL OF TURPENTINE)

Date.	Purchased of	Manufacturer or Jobber.	Remarks.
1908.			
Feb. 5	St. Croix County Co-operative Co., Hersey.	Minnesota Mercantile Co., Stillwater, Minn.	Not a pure oil of turpentine. Adulterated.

## Sodii Boras (SODIUM BORATE) (BORAX)

Date.	Purchased of	Remarks.
1908. Jan. 8	Boston Store, Milwaukee .....	Passed.

*Spiritus Aethoris Nitrosi* (SPIRIT OF NITROUS ETHER)

Spirit of nitrous ether according to the requirements of the U. S. pharmacopoeia, should, when assayed according to the official method, yield not less than 4 per cent of ethyl nitrite.

## Spirit of Nitrous Ether Passed as Lawful

Date.	Purchased of	Address.
1908. Jan. 29	The Oregon Drug Co.....	Oregon.
Feb. 6	J. L. Moody & Co.....	Ellsworth.
Feb. 10	Guarantee Drug Store.....	Superior.
Feb. 11	Harrison Drug Co.....	Ashland.
Apr. 29	Eureka Drug Store .....	New Richmond.

## Spirit of Nitrous Ether of Lawful Alcohol Strength but Deficient in Ethyl Nitrite

Date.	Purchased of	Address.	Ethyl Nitrite Per cent (by w't.)
1908.			
Jan. 25	Hoskins & Wilson .....	Darlington .....	1.7
Jan. 25	Meserole & Horn .....	Mineral Point .....	2.5
Jan. 27	Chas. F. Behnke .....	Oshkosh .....	2.7
Jan. 28	Tanner's Drug Store .....	So. Kaukauna .....	1.0
Jan. 28	Chas. A. Groffman .....	Manitowoc .....	2.8
Jan. 28	Adolph Wolff .....	Manitowoc .....	2.08
Jan. 30	Victor C. Woeffler .....	Neillsville .....	2.0
Jan. 30	Purdy Drug Co.....	Portage .....	2.3
Jan. 30	F. A. Rhyme .....	Portage .....	1.75
Jan. 30	G. W. Jenkins .....	Kilbourn .....	2.8
Feb. 4	N. W. Heintz .....	Rice Lake .....	2.85
Feb. 5	H. E. Ranons & Co.....	Janesville .....	0.93
Feb. 10	Red Cross Drug Co.....	Superior .....	2.2
Feb. 10	Aug. E. Holmberg Drug Co....	Superior .....	3.0
Feb. 10	Slocumb's Pharmacy .....	Superior .....	3.3
Feb. 11	Garvey's Pharmacy .....	Prairie du Chien .....	1.3
Feb. 11	A. Brower .....	Prairie du Chien .....	2.3
Apr. 1	Cumberland Drug Co.....	Cumberland .....	0.8
Apr. 1	Danielson Drug Co.....	Cumberland .....	2.3
Apr. 11	Woodhead's Drug Store.....	Ashland .....	2.25
Apr. 11	Weed's Drug Store .....	Ashland .....	3.24
Apr. 11	Warner Bros. ....	Ashland .....	0.7
Apr. 29	W. W. Beebe .....	New Richmond .....	1.4
Apr. 29	Winter & Sherman .....	New Richmond .....	1.3

Spirit of Nitrous Ether Below Legal Strength in Ethyl Nitrite and Alcohol

Date	Purchased of	Address.	Ethyl Nitrite Per cent (by w't.)	Alcohol Per cent (by w't.)
1908.				
Jan. 22	J. D. Hatch .....	Lancaster .....	0.00	65.7
Jan. 22	Wm. E. Barringer .....	Baraboo .....	1.10	73.5
Jan. 22	C. W. Whitman .....	Baraboo .....	0.90	73.0
Jan. 23	Dr. H. F. McDonald.....	Hollandale .....	0.08	55.0
Jan. 25	G. F. Oates.....	Darlington .....	1.00	48.8
Jan. 25	Swift Drug Co.....	Darlington .....	0.00	57.0
Jan. 28	F. W. Medland .....	Oshkosh .....	0.40	53.5
Jan. 28	W. C. Wendt.....	No. Kaukauna ..	1.65	39.7
Jan. 28	K. O. Knutzen.....	Manitowoc .....	0.62	64.3
Feb. 4	Fred H. Gadsby.....	Eau Claire .....	2.03	76.0
Feb. 4	Good Luck Drug Store .....	Chippewa Falls ..	1.70	59.6
Feb. 4	Eagle Drug Store .....	Chippewa Falls ..	2.25	71.6
Feb. 5	St. Croix Co. Co-op Co.....	Hersey .....	0.00	51.3
Feb. 6	E. Ellsworth Drug Store.....	East Ellsworth ..	0.09	41.0
Apr. 2	W. C. Wendt .....	No. Kaukauna ..	0.43	38.0

Spiritus Camphorae (SPIRIT OF CAMPHOR)

The latest current edition of the U. S. pharmacopoeia, as well as the previous edition, requires that 100 ccs. of camphor contain 10 gms. of camphor dissolved in alcohol.

Spirit of Camphor Passed as Lawful

Date.	Purchased of	Address.
1908.		
Jan. 27	White Cross Pharmacy .....	Oshkosh.
Jan. 27	Chas. F. Behnke .....	Oshkosh.
Jan. 30	G. W. Jenkins .....	Kilbourn.
Jan. 30	R. J. Strauss .....	Marshfield.
Feb. 5	H. E. Ranons & Co.....	Janesville.
Feb. 5	L. A. Christensen .....	Baldwin.
Feb. 5	C. B. Curran & Co.....	Elk Mound.
Feb. 6	D. H. Pollock & Co.....	Beloit.
Feb. 6	J. L. Moody & Co.....	Ellsworth.
Feb. 28	Collyer's Pharmacy .....	Madison.
Feb. 28	A. W. Krehl.....	Madison.
Feb. 28	Andrew A. Mayers.....	Madison.
Mch. 3	Sumner & Cramton .....	Madison.
Mch. 3	J. L. McCarthy .....	Madison.
Mch. 3	Edwin Sumner & Son.....	Madison.
Mch. 3	C. L. Robb .....	Madison.
Mch. 3	Ott's Pharmacy .....	Madison.
Mch. 3	Williams' Pharmacy .....	Madison.
Mch. 5	Eckhardt Drug Co.....	National & Sixth Aves., Milwaukee.
Mch. 5	Alfred J. Jones.....	17th St. & National Ave., Milwaukee.
Mch. 6	Edward A. Hempe.....	374 Mitchell St., Milwaukee.
Mch. 6	Jos. S. Gaudynski .....	263 Mitchell St., Milwaukee.
Mch. 6	A. H. Czerwinski .....	457 Mitchell St., Milwaukee.
Mch. 6	Jos. U. S. Tomkiewitz .....	452 Mitchell St., Milwaukee.
Mch. 9	The Menges Pharmacies .....	University Ave., Madison.
Mch. 10	Rheineck's Pharmacy .....	3rd & Cedar Sts., Milwaukee.
Mch. 11	Drake Bros. Co.....	165 Reed St., Milwaukee.
Mch. 11	Richardson & Gregory .....	403 Grove St., Milwaukee.
Mch. 12	Wright Drug Co.....	112 Wisconsin St., Milwaukee.
Mch. 12	J. S. Janssen .....	Milwaukee & Wisconsin Sts., Milwaukee.
Mch. 12	The Martin Drug Store.....	Wisconsin & Van Buren Sts., Milwaukee.



## Spirit of Camphor Passed as Lawful—Continued

Date.	Purchased of	Address.
1908.		
Mch. 25	C. G. Suits .....	Medford.
Apr. 1	Cumberland Drug Co.....	Cumberland.
Apr. 1	Danielson Drug Co.....	Cumberland.
Apr. 3	Henry G. Ruenzel .....	Vliet St., Milwaukee.
Apr. 11	Woodhead's Drug Store .....	Ashland.
Apr. 11	Harrison Drug Co.....	Ashland.
Apr. 11	Weed's Drug Store .....	Ashland.
Apr. 26	Eureka Drug Store .....	New Richmond.
Apr. 26	W. W. Beebe .....	New Richmond.
Apr. 26	Winter & Sherman .....	New Richmond.
May 22	C. Fallinger .....	Waterloo.
May 22	E. O. Whipple .....	Waterloo.

## Spirit of Camphor Above Official Strength

Date.	Purchased of	Remarks.
1908.		
Jan. 22	C. W. Whitman, Baraboo.....	One and one-half official strength in camphor.
Jan. 30	Victor C. Woellfer, Neillsville.....	One and one-half official strength in camphor.
Apr. 1	Rei Cross Pharmacy, Cumberland...	One and one-fourth official strength in camphor.
May 22	L. F. Kelley, Marshall.....	*One and one-fifth official strength in camphor.

\* Made up with dilute alcohol.

## Spirit of Camphor of Official Strength in Camphor but Made up with Dilute Alcohol

Date.	Purchased of	Solvent Per cent alcohol (by w't.)
1908.		
Feb. 10	Guarantee Drug Store, Superior.....	83.0
Feb. 10	Aug. E. Holmberg Drug Co., Superior.....	67.0
Feb. 28	Hollister Drug Co., Madison.....	79.2
Feb. 28	Weaver & Detloff, Madison.....	79.0
Mch. 7	Chas. H. Naffz, Madison.....	66.0
Mch. 8	Weaver & Detloff, Madison.....	79.0
Mch. 8	Esser Bros., Reed St. & Nat. Ave., Milwaukee.....	63.0
Mch. 10	Geo. A. Kremers, 3rd & Hadley Sts., Milwaukee.....	75.5
Mch. 10	Herman L. Emmerich, 838 3rd St., Milwaukee.....	72.3

Spirit of Campher Below Official Strength in Camphor but of Official Strength in Alcohol

Date.	Purchased of	Gms. of camphor in 100 ccs.
1908.		
Jan. 28	J. H. Schroeder, Oshkosh.....	4.25
Jan. 28	Tanner's Drug Store, So. Kaukauna.....	8.3
Jan. 30	Sexton Bros., Marshfield.....	7.0
Feb. 4	The Collette Drug Store, Chippewa Falls.....	6.1
Feb. 5	J. P. Baker, Janesville.....	5.3
Feb. 6	East Ellsworth Drug Store, East Ellsworth.....	3.5
Feb. 10	Stocumb's Pharmacy, Superior.....	8.1
Feb. 11	Garvey's Pharmacy, Prairie du Chien.....	7.1
Mch. 3	The Menges Pharmacy, W. Mifflin St., Madison.....	7.7
Mch. 11	Wm. Lorentz, 19th St. & Greenfield Ave., Milwaukee.....	7.7
Apr. 3	Kossat's Pharmacy, 935 Greenfield Ave., Milwaukee.....	3.0

Spirit of Camphor Below Official Strength in Camphor and Alcohol

Date.	Purchased of	Gms. of camphor in 100 ccs.	Solvent Per cent alcohol (by w't.)
1908.			
Jan. 22	Wm. E. Barringer, Baraboo.....	8.0	64.0
Jan. 27	E. A. Horn, Oshkosh.....	8.7	76.5
Jan. 27	J. F. W. Schmidt, Oshkosh.....	6.8	71.6
Jan. 28	F. W. Medland, Oshkosh.....	7.0	63.2
Jan. 30	Purdy Drug Co., Portage.....	7.7	72.8
Jan. 30	P. A. Rhyme, Portage.....	6.4	73.0
Feb. 4	Good Luck Drug Store, Chippewa Falls.....	4.2	67.0
Feb. 5	W. T. Sherer, Janesville.....	6.48	68.12
Feb. 10	Red Cross Drug Co., Superior.....	8.0	73.3
Feb. 24	Henry Lewis, Madison.....	6.5	68.0
Mch. 3	A. A. Pardee, Madison.....	4.0	64.3
Mch. 5	A. Luethe, Milwaukee.....	6.0	55.5
Mch. 5	Chas. F. Lederer, 3rd St. & National Ave., Milwaukee.....	8.0	79.0
Mch. 5	Frank J. Kuhnmuench, National Ave. & Grove St., Milwaukee.....	8.1	70.7
Mch. 6	Arthur R. Schacht, 612 Mitchell St., Milwaukee.....	6.1	84.0
Mch. 6	Kienth's Pharmacy, 508 Mitchell St., Milwaukee.....	5.8	64.5
Mch. 10	A. E. Haise, 683 3rd St., Milwaukee.....	7.5	63.3
Mch. 10	Red Cross Pharmacy, 783 3rd St., Milwaukee.....	8.2	65.4
Mch. 10	Wm. Teich, 3rd & Sherman Sts., Milwaukee.....	5.1	66.3
Mch. 11	Anton Weiss, 11th St. & Greenfield Ave., Milwaukee.....	8.0	67.5
Mch. 11	The Esau Pharmacy, 479 Reed St., Milwaukee.....	6.7	70.3
Mch. 11	E. M. Krembs, 11th & Washington Sts., Milwaukee.....	7.5	63.3
Mch. 11	The Madison Drug Store, Grove & Madison Sts., Milwaukee.....	7.3	86.2
Mch. 11	E. M. Krembs, 11th & Washington Sts., Milwaukee.....	7.5	63.3
Mch. 12	Goodloe Sykes, 198 Wisconsin St., Milwaukee.....	7.8	72.7
Mch. 25	Geo. C. Hickok, Curtiss.....	7.3	67.0
Apr. 11	Warner Bros., Ashland.....	8.3	71.6
May 6	Carl Mootz, 608 Mitchell St., Milwaukee.....	7.0	83.0
May 22	A. J. Humphrey Drug Co., Waterloo.....	4.0	75.75

**Spirit of Camphor Containing Wood Alcohol and Below Official Strength in Camphor**

Date.	Purchased of	Gms. of camphor in 100 ccs.
1908.		
Mich. 11	Wm. Bender, 874 Greenfield Ave., Milwaukee.....	7.0
Mich. 11	Chas. Kossat, 18th St. & Greenfield Ave., Milwaukee.....	1.5
Apr. 7	Wm. Bender, 874 Greenfield Ave., Milwaukee.....	7.0

*Sulphur Praecipitatum* (PRECIPITATED SULPHUR)

Precipitated sulphur, according to the U. S. pharmacopoeia, should be practically pure sulphur, leaving no weighable residue upon ignition.

**Precipitated Sulphur Passed as Lawful**

Date.	Purchased of	Address.
1908.		
Feb. 10	Guarantee Drug Store .....	Superior.
Feb. 10	Aug. E. Holmberg Drug Co.....	Superior.

**Adulterated Precipitated Sulphur**

Date.	Purchased of	Address.	Per cent sulphur.
1908.			
Jan. 22	C. W. Whitman.....	Baraboo .....	41.4
Feb. 14	Slocumb's Pharmacy .....	Superior .....	29.2
Apr. 7	Cumberland Drug Co.....	Cumberland .....	43.0
Apr. 11	Woodhead's Drug Store.....	Ashland .....	44.0
Apr. 11	Warner Bros.....	Ashland .....	41.0
Apr. 25	Eureka Drug Store.....	New Richmond .....	35.7
Apr. 25	Winter & Sherman.....	New Richmond .....	38.1

**Washed Sulphur Dispensed for Precipitated Sulphur**

Date.	Purchased of	Address.
1908.		
Apr. 11	Weed's Drug Store.....	Ashland.

*Tinctura Opii* (LAUDANUM)

Laudanum, according to the eighth decennial revision of the U. S. pharmacopoeia, should not contain less than 1.2 nor more than 1.25 gms. of crystallized morphine in 100 ccs.

Laudanum Passed as Lawful

Date.	Purchased of	Address.
1908.		
Apr. 1	Red Cross Pharmacy.....	Cumberland.
Apr. 1	Danielson Drug Co.....	Cumberland.
Apr. 11	Harrison Drug Co.....	Ashland.
Apr. 11	Weed's Drug Store.....	Ashland.
Apr. 29	Eureka Drug Store.....	New Richmond.
Apr. 29	W. W. Beebe .....	New Richmond.
Apr. 29	Winter & Sherman .....	New Richmond.

Laudanum Below Official Strength in Morphine

Date.	Purchased of	Grams of crystallizable morphine in 100 ccs.
1908.		
Jan. 22	C. W. Whitman, Baraboo.....	1.12
Jan. 22	J. D. Hatch, Lancaster.....	0.4483
Jan. 23	H. F. McDonald, M. D., Hollandale.....	0.5295
Jan. 25	Meserole & Horn, Mineral Point.....	1.1534
Jan. 30	F. A. Rhyme, Portage.....	0.8789
Jan. 30	G. W. Jenkins, Kilbourn.....	0.8098
Feb. 2	Good Luck Drug Store, Chippewa Falls.....	0.7846
Feb. 4	N. W. Heintz, Rice Lake .....	0.7330
Feb. 10	Red Cross Drug Co., Superior.....	1.091
Feb. 10	Guarantee Drug Store, Superior.....	1.0644
Feb. 10	Aug. E. Holmberg Drug Co., Superior.....	1.034
Feb. 10	Stocumb's Pharmacy, Superior.....	0.9716
Feb. 11	A. Brower, Prairie du Chien.....	0.8935
Apr. 1	Cumberland Drug Co., Cumberland.....	1.14

Laudanum Above Official Strength in Morphine

Date.	Purchased of	Grams of crystallizable morphine in 100 ccs.
1908.		
Apr. 11	Woodhead's Drug Store, Ashland.....	1.47

## Tinctura Iodi (TINCTURE OF IODINE)

Tincture of iodine, according to the latest current edition of the U. S. pharmacopoeia, should contain not less than 6.36 gms. of iodine and 5 gms. of potassium iodide in 100 ccs.

## Tincture of Iodine of Official Strength in Iodine and Potassium Iodide

Date.	Purchased of	Address.
1908.		
Feb. 5	C. B. Curran & Co.....	Elk Mound.
Feb. 6	D. H. Pollock & Co.....	Beloit.
Feb. 10	Guarantee Drug Store .....	Superior.
Mch. 5	Esser Bros.....	Reed St. & National Ave., Milwaukee.
Mch. 10	Rheineck's Pharmacy .....	3rd & Center Sts., Milwaukee.
Mch. 11	Anton Weiss .....	11th St. & Greenfield Ave., Milwaukee.
Mch. 11	E. M. Krembs .....	11th & Washington Sts., Milwaukee.
Mch. 12	Wright Drug Co.....	112 Wisconsin St., Milwaukee.
Mch. 12	The Martin Drug Co.....	Wisconsin & Van Buren Sts., Milwaukee.
Apr. 1	Danielson Drug Co.....	Cumberland.
Apr. 11	Woodhead's Drug Store.....	Ashland.
Apr. 11	Harrison Drug Co.....	Ashland.
Apr. 29	W. W. Beebe .....	New Richmond.
Apr. 29	Winter & Sherman.....	New Richmond.

## Tincture of Iodine Containing Potassium Iodide but Above Official Strength in Iodine

Date.	Purchased of	Address.	Gms. of iodine in 100 ccs.
1908.			
Jan. 27	E. A. Horn.....	Oshkosh .....	8.60
Mar. 10	Strohmeyer & Co.....	Milwaukee .....	8.32
Apr. 11	Weed's Drug Store.....	Ashland .....	*15.19

\* Contains some undissolved iodine.

## Tincture of Iodine of Official Strength in Iodine but Deficient in Potassium Iodide

Date.	Purchased of	Remarks.
1908.		
Jan. 25	Itoskin & Wilson, Darlington.	Contains 0.40 gms. potassium iodide in 100 ccs.
Feb. 10	Slocumb's Pharmacy, Superior.	Contains 3.50 gms. potassium iodide in 100 ccs.
Mch. 6	Kienth's Pharmacy, 508 Mitchell St., Milwaukee.	Contains 1.42 gms. potassium iodide in 100 ccs.
Mch. 10	Red Cross Pharmacy, 783 3rd St., Milwaukee.	Contains 0.00 gms. potassium iodide in 100 ccs.
Mar. 19	Wm. Teich, 3rd & Sherman Sts., Milwaukee.	Contains 3.90 gms. potassium iodide in 100 ccs.

## Tincture of Iodine Slightly Below Official Strength in Iodine

Date.	Purchased of	Gms. of iodine in 100 ccs.	Remarks.
1908.			
Jan. 27	White Cross Pharmacy, Oshkosh.	6.50	Potassium iodide present.
Jan. 28	Adolf Wolff, Manitowoc .....	6.30	Contains no potassium iodide.
Feb. 10	Aug. E. Holmberg Drug Co., Superior.	6.22	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 5	Frank J. Kuhnmuensch, National Ave. & Grove St., Milwaukee.	6.65	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 6	A. H. Czerwinski, 457 Mitchell St., Milwaukee.	6.27	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 6	Jno. W. S. Tomkiewicz & Bros., Mitchell St., Milwaukee.	6.53	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 10	Geo. A. Kremers, 3rd & Hadley Sts., Milwaukee.	6.50	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 10	Herman L. Emmerich, 833 3rd St., Milwaukee.	6.50	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 11	The Esau Pharmacy, 479 Reed St., Milwaukee.	6.27	Contains 3.38 gms. potassium iodide in 100 ccs.
Mch. 11	Drake Bros., 165 Reed St., Milwaukee.	6.50	Contains no potassium iodide.
Mch. 20	Dr. G. Jensen, Cameron.....	6.54	Contains 5.0 gms. potassium iodide in 100 ccs.
Apr. 1	Red Cross Pharmacy, Cumberland.	6.20	Contains 5.0 gms. potassium iodide in 100 ccs.
Apr. 3	Schmidt Bros., Manitowoc....	6.57	Contains 5.0 gms. potassium iodide in 100 ccs.

## Tincture of Iodine Between Three-Fourths and Nin-Tenths Official Strength in Iodine

Date.	Purchased of	Gms. of iodine in 100 ccs.	Remarks.
1908.			
Jan. 27	Chas. F. Behnke, Oshkosh.....	5.91	Contains 4.35 gms. potassium iodide in 100 ccs.
Feb. 10	Red Cross Drug Co., Superior.	5.50	Contains no potassium iodide.
Feb. 27	Henry Lewis, Madison.....	5.88	Contains 5.0 gms. potassium iodide in 100 ccs.
Mch. 5	Alfred J. Jones, 17th St. and Nat'l. Ave., Milwaukee.	6.02	Potassium iodide present.
Mch. 6	Edward A. Hempe, 374 Mitchell St., Milwaukee.	5.80	Contains no potassium iodide.
Mch. 6	Jos. S. Gaudynski, 233 Mitchell St., Milwaukee.	5.95	Contains 1.06 gms. potassium iodide in 100 ccs.
Mch. 6	A. R. Schacht, 612 Mitchell St., Milwaukee.	6.14	Contains 5.00 gms. potassium iodide in 100 ccs.
Mch. 10	A. E. Halse, 680 3rd St., Milwaukee.	5.83	Contains no potassium iodide.
Mch. 11	Wm. Bender, 874 Greenfield Ave., Milwaukee.	6.06	Contains 5.00 gms. potassium iodide in 100 ccs.
Mch. 11	Richardson & Gregory, 405 Grove St., Milwaukee.	5.80	Contains no potassium iodide.
Mch. 11	A. Schellinger, 22nd St. and Greenfield Ave., Milwaukee.	5.68	Contains no potassium iodide.
Mch. 12	J. S. Janssen, Milwaukee and Wisconsin Sts., Milwaukee.	5.93	Contains no potassium iodide.
Mch. 25	Aug. J. E. Benn, Medford.	5.28	Contains no potassium iodide.

**Tincture of Iodine Between Three-fourths and Nine-tenths Official Strength in Iodine—Continued**

Date.	Purchased of	Gms. of iodine in 100 ccs.	Remarks.
1908.			
Apr. 7	Cumberland Drug Co., Cumberland.	6.10	Contains 3.5 gms. potassium iodide in 100 ccs.
Apr. 11	Warner Bros., Ashland.....	6.07	Contains 2.56 gms. potassium iodide in 100 ccs.
Apr. 21	Eureka Drug Store, New Richmond.	5.23	Contains no potassium iodide.

**Tincture of Iodine Between One-Half and Three-Fourths Official Strength in Iodine**

Date.	Purchased of	Gms. of iodine in 100 ccs.	Remarks.
1908.			
Jan. 25	G. F. Oates, Darlington.....	3.98	Potassium iodide none.
Jan. 25	Swift Drug Co., Darlington....	4.78	Potassium iodide none.
Feb. 4	Fred H. Gadsby, Eau Claire...	4.81	Potassium iodide none.
Feb. 4	Good Luck Drug Store, Chipewewa Falls.	4.35	Potassium iodide none.
Feb. 4	The Collette Drug Store, Chipewewa Falls.	4.94	Potassium iodide 0.30 gms. in 100 ccs.
Feb. 4	N. W. Heintz, Rice Lake.....	5.09	Potassium iodide none.
Mch. 5	Eckhardt Drug Co., Milwaukee.	3.76	Potassium iodide none.
Mch. 5	A. Luethe, Nat'l Ave. and Greenbush St., Milwaukee.	4.24	Potassium iodide none.
Mch. 5	Chas. F. Lederer, 3rd St. and Nat'l Ave., Milwaukee.	4.76	Potassium iodide none.
Mch. 11	The Madison Drug Store, Madison and Grove Sts., Milwaukee.	4.62	Potassium iodide none.
Mch. 12	Goodloe-Sykes Pharmacy, 198 Wisconsin St., Milwaukee.	3.77	Potassium iodide none.
Mch. 24	J. C. Neher, Eau Claire.....	4.03	Potassium iodide present.

**Tincture of Iodine Below One-Half Official Strength in Iodine**

Date.	Purchased of	Gms. of iodine in 100 ccs.	Remarks.
1908.			
Jan. 25	Meserole & Horn, Mineral Point.	2.03	Potassium iodide none.
Jan. 28	Schmidt Bros., Manitowoc.....	2.81	Potassium iodide 2.8 gm. in 100 ccs.
Mch. 11	Chas. Kossat, 18th St. and Greenfield Ave., Milwaukee.	3.03	Potassium iodide none.
Mch. 11	Wm. Lorentz, 22nd St. and Greenfield Ave., Milwaukee.	2.76	Potassium iodide none.
Mch. 25	C. G. Suits, Medford .....	0.71	Potassium iodide none.

## FLAVORING EXTRACTS AND ESSENCES

## STANDARDS.

"1. A flavoring extract\* is a solution in ethyl alcohol of proper strength of the sapid and odorous principles derived from an aromatic plant, or parts of the plant, with or without its coloring matter, and conforms in name to the plant used in its preparation.

2. Almond extract is the flavoring extract prepared from oil of bitter almonds, free from hydrocyanic acid, and contains not less than (1) per cent by volume of oil of bitter almonds.

2a. Oil of bitter almonds, commercial, is the volatile oil obtained from the seed of the bitter almond (*Amygdalus communis* L.), the apricot (*Prunus armeniaca* L.), or the peach (*Amygdalus persica* L.).

3. Anise extract is the flavoring extract prepared from oil of anise, and contains not less than three (3) per cent by volume of oil of anise.

3a. Oil of anise is the volatile oil obtained from the anise seed.

4. Celery seed extract is the flavoring extract prepared from celery seed or the oil of celery seed, or both, and contains not less than three-tenths (0.3) per cent by volume of oil of celery seed.

4a. Oil of celery seed is the volatile oil obtained from celery seed.

5. Cassia extract is the flavoring extract prepared from oil of cassia and contains not less than two (2) per cent by volume of oil of cassia.

5a. Oil of cassia is the lead-free volatile oil obtained from the leaves or bark of *Cinnamomum cassia* Bl., and contains not less than seventy-five (75) per cent by weight of cinnamic aldehyde.

6. Cinnamon extract is the flavoring extract prepared from oil of cinnamon, and contains not less than two (2) per cent by volume of oil of cinnamon.

6a. Oil of cinnamon is the lead-free volatile oil obtained from the bark of the Ceylon cinnamon (*Cinnamomum zeylanicum* Breyne), and contains not less than sixty-five (65) per cent of weight by cinnamic aldehyde and not more than ten (10) per cent by weight of eugenol.

7. Clove extract is the flavoring extract prepared from oil of cloves, and contains not less than two (2) per cent by volume of oil of cloves.

7a. Oil of cloves is the lead-free, volatile oil obtained from cloves.

8. Ginger extract is the flavoring extract prepared from ginger and contains in each one hundred (100) cubic centimeters, the alcohol-soluble matters from not less than twenty (20) grams of ginger.

9. Lemon extract is the flavoring extract prepared from oil of lemon, or from lemon peel, or both, and contains not less than five (5) per cent by volume of oil of lemon.

9a. Oil of lemon is the volatile oil obtained, by expression or alcoholic solution, from the fresh peel of the lemon (*Citrus limonum* L.), has an optical rotation (25° C.) of not less than +60° in a 100-millimeter tube, and contains not less than four (4) per cent by weight of citral.

10. Terpeneless extract of lemon is the flavoring extract prepared by shaking oil of lemon with dilute alcohol, or by dissolving terpeneless oil of lemon in dilute alcohol, and contains not less than two-tenths (0.2) per cent by weight of citral derived from oil of lemon.

10a. Terpeneless oil of lemon is oil of lemon from which all or nearly all of the terpenes have been removed.

11. Nutmeg extract is the flavoring extract prepared from oil of nutmeg, and contains not less than two (2) per cent by volume of oil of nutmeg.

11a. Oil of nutmeg is the volatile oil obtained from nutmegs.

12. Orange extract is the flavoring extract prepared from oil of orange, or from orange peel, or both, and contains not less than five (5) per cent by volume of oil of orange.

12a. Oil of orange is the volatile oil obtained, by expression or alcoholic solution, from the fresh peel of the orange (*Citrus aurantium* L.) and has an optical rotation (25° C.) of not less than +95° in a 100-millimeter tube."

13. Terpeneless extract of orange is the flavoring extract prepared by shaking oil of orange with dilute alcohol, or by dissolving terpeneless oil of orange in dilute alcohol, and corresponds in flavoring strength to orange extract.

13a. Terpeneless oil of orange is oil of orange from which all or nearly all of the terpenes have been removed.

14. Peppermint extract is the flavoring extract prepared from oil of peppermint, or from peppermint, or both, and contains not less than three (3) per cent by volume of oil of peppermint.

14a. Peppermint is the leaves and flowering tops of *Mentha piperita* L.

14b. Oil of peppermint is the volatile oil obtained from peppermint and contains not less than fifty (50) per cent by weight of menthol.

15. Rose extract is the flavoring extract prepared from otto otto roses, with or without red rose petals, and contains not less than four-tenths (0.4) per cent by volume of otto of roses.

\* The flavoring extracts herein described are intended solely for food purposes and are not to be confounded with similar preparations described in the Pharmacopoeia for medicinal purposes.



- 15a. Otto of roses is the volatile oil obtained from the petals of *Rosa damascena* Mill., *R. centifolia* L., or *R. moschata* Herrm.
16. Savory extract is the flavoring extract prepared from oil of savory, or from savory, or both, and contains not less than thirty-five hundredths (0.35) per cent by volume of oil of savory.
- 16a. Oil of savory is the volatile oil obtained from savory.
17. Spearmint extract is the flavoring extract prepared from oil of spearmint, or from spearmint, or both, and contains not less than three (3) per cent by volume of oil of spearmint.
- 17a. Spearmint is the leaves and flowering tops of *Mentha spicata* L.
- 17b. Oil of spearmint is the volatile oil obtained from spearmint.
18. Star anise extract is the flavoring extract prepared from oil of star anise, and contains not less than three (3) per cent by volume of oil of star anise.
- 18a. Oil of star anise is the volatile oil distilled from the fruit of the star anise (*Illicium verum* Hook).
19. Sweet basil extract is the flavoring extract prepared from oil of sweet basil, or from sweet basil, or both, and contains not less than one-tenth (0.1) per cent by volume of oil of sweet basil.
- 19a. Sweet basil, basil, is the leaves and tops of *Ocimum basilicum* L.
- 19b. Oil of sweet basil is the volatile oil obtained from basil.
20. Sweet marjoram extract, marjoram extract, is the flavoring extract prepared from the oil of marjoram, or from marjoram, or both, and contains not less than one (1) per cent by volume of oil of marjoram.
- 20a. Oil of marjoram is the volatile oil obtained from marjoram.
21. Thyme extract is the flavoring extract prepared from oil of thyme, or from thyme, or both, and contains not less than two-tenths (0.2) per cent by volume of oil of thyme.
- 21a. Oil of thyme is the volatile oil obtained from thyme.
22. Tonka extract is the flavoring extract prepared from tonka bean, with or without sugar or glycerin, and contains not less than one-tenth (0.1) per cent by weight of coumarin extracted from the tonka bean, together with a corresponding proportion of the other soluble matters thereof.
- 22a. Tonka bean is the seed of *Coumarouna odorata* Aublet (*Dipteryx odorata* (Aubl.) Willd.).
23. Vanilla extract is the flavoring extract prepared from vanilla bean, with or without sugar or glycerin, and contains in one hundred (100) cubic centimeters the soluble matters from not less than ten (10) grams of the vanilla bean.
- 23a. Vanilla bean is the dried, cured fruit of *Vanilla planifolia* Andrews.
24. Wintergreen extract is the flavoring extract prepared from oil of wintergreen, and contains not less than three (3) per cent by volume of oil of wintergreen.
- 24a. Oil of wintergreen is the volatile oil distilled from the leaves of the *Gaultheria procumbens* L."

## CHAPTER 228, LAWS OF 1905.

Section 1. Any person who shall manufacture for sale, sell or offer or expose for sale or have in his possession with intent to sell as and for lemon extract, or extract of lemon, or essence of lemon, or lemon essence, or spirits of lemon, or under any designation which includes any of the aforesaid names any preparation other than a solution containing not less than five per centum, by volume, of pure lemon oil in ethyl alcohol; or any person who shall manufacture for sale, sell or offer or expose for sale or have in his possession with intent to sell as and for vanilla extract, or extract of vanilla, or tincture of vanilla, or vanilla tincture, or under any designation which includes any of the aforesaid names any preparation which shall contain any flavoring or coloring ingredient other than those derived from pure vanilla bean, shall forfeit to the state of Wisconsin the sum of not less than twenty-five dollars nor more than one hundred dollars. Providing nothing in this act shall prohibit the manufacture of the above specified articles for sale and shipment without the state.

See general law on misbranding of foods, p. 9.

LEMON EXTRACTS AND FLAVORS.  
Extract of Lemon Passed as Lawful

Date.	Purchased of	Manufacturer or Jobber.	Brand.
1908. Mch. 11	G. L. Solberg, Blair.....	Gillett's Chemical Works, Chicago.....	Standard.

Lemon Extracts and Flavors not Lawful

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908, Mch. 18	Lemon .....	Bur's Grocery, Nic. Bur, Jr., Green Bay.	Kenwood Preserving Co., Chicago,	Seal .....	Sold for Lemon Extract. Oil of lemon, none. Label also held to be unlawful.
Mch. 19	Extract of Lemon...	John Biebel, Green Bay..	Carpenter-Cook Co., (C. C. Factory), Meno- minee, Mich.	Shield .....	Oil of lemon, none. Color artifi- cial.
May 26	Lemon Flavor .....	The Church Co., Oshkosh	C. H. Stuart & Co., Ne- wark, N. Y.	NO-AL .....	Held to be not lawfully labeled.
May 27	Concentrated Lemon Flavor.	H. L. Platte, Prescott...	Geo. R. Newell & Co., Minneapolis, Minn.	Mrs. Baker's.....	Adulterated and misbranded.
May 29	Lemon Extract .....	M. Ruben, Alma .....	Latsch & Son, Winona, Minn.	Sugar Loaf .....	Oil of lemon (by vol.) 4.7 per cent. Slightly deficient in oil of lemon.

## VANILLA EXTRACTS AND SUBSTITUTES NOT LAWFUL.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Feb. 15	Vanilla Flavoring, Vanillin, Coumarin, Caramel.	L. Anderson, Washburn.	C. F. Blanke Tea & Coffee Co., Minneapolis, Minn.	White Crow .....	An artificial preparation con- taining caramel, vanillin, and coumarin, but no vanilla ex- tract.
1908. Mch. 26	Vanilla Flavor Com- pound made from Vanilla, Vanillin, Coumarin.	Cameron Farmers' Store Co., Cameron.	A. F. Behnke & Co., St. Paul, Minn.	Fruit .....	Contains little or no vanilla ex- tract. Held to be unlawfully labeled.
1908. May 22	Vanilla Compound..	S. H. VanGorden & Son, Alma Center.	Latsch & Son, Winona, Minn.	Sugar Loaf .....	Contains caramel and coumarin, but little or no vanilla ex- tract.
1908. May 26	Vanilla Compound or Substitute.	The Church Co., Oshkosh	C. H. Stuart & Co., Ne wark, N. Y.	NO-AL .....	Artificially colored. Contains little or no vanilla.
1908. May 22	Vanilla Compound...	P. E. Ibach, Alma .....	Latsch & Son, Winona, Minn.	Sugar Loaf .....	Contains caramel and coumarin, but little or no vanilla ex- tract.
1908. May 27	Vanilla Flavor .....	H. L. Platte, Prescott...	Geo. R. Newell & Co., Minneapolis, Minn.	Mrs. Baker's.....	Contains coumarin and caramel, but no vanilla extract.
1908. May 29	Vanilla Compound ..	M. Ruben, Alma.....	Latsch & Son, Winona, Minn.	Sugar Loaf.....	Contains caramel and coumarin, but little or no vanilla ex- tract.
1908. June 8	Extract of Vanilla ..	Butz Bros., Mazomanie..	Federal Extract Co., Chi- cago.	Standard .....	Not a pure vanilla extract.

## EXTRACT OF PISTACHIO.

Date.	Labeled.	Submitted by	Manufacturer or Jobber.	Remarks.
1908. Jan. 24	Extract of Pistachio .....	Mrs. Chappell, Eau Claire, Wis.	The Abner Royce Co., Cleve- land, Ohio.	An artificial preparation. Mis- branded.

FLAVORING POWDERS  
See general law on adulteration and misbranding, pages

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Apr. 17	Flavoring Powders— Orange.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Contains sugar (95.0 per cent); flavored with oil of orange (about 1.0 per cent) and colored with turmeric. Not lawful.
Apr. 17	Flavoring Powders— Cloves.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	A compound of cane sugar (95.0 per cent) and oil of cloves. Label not approved.
Apr. 17	Flavoring Powders— Vanilla.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Contains 98.5 per cent cane sugar; 0.52 per cent coumarin; 0.80 per cent vanillin; colored with caramel; contains no vanillin. An adulteration.
Apr. 17	Flavoring Powders— Nutmeg.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Composed of sugar flavored with about 5.0 per cent of oil of nutmeg. Label held to be unlawful.
Apr. 17	Flavoring Powders— Pine Apple.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Contains cane sugar (98 per cent) flavored with artificial pine-apple flavor. Label not approved.
Apr. 17	Flavoring Powders— Ginger.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Composed of sugar (97.4 per cent) flavored with oleo-resin of ginger. Label held to be unlawful.
Apr. 17	Flavoring Powders— Lemon.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Contains cane sugar (93.2 per cent), and oil of lemon, and is artificially colored with turmeric. Not lawful.
Apr. 17	Flavoring Powders— Cassia Cinnamon.	Johnson Bros., Neenah..	Bert P. Snell & Co., Chicago.	Snell's .....	Contains cane sugar (95.0 per cent) and oil of cinnamon. Label not approved.
Apr. 17	Urter Specier .....	Johnson Bros., Neenah..	Bert P. Snell & Co., To- ronto, Canada.	.....	Contains salt (65.0 per cent), pepper and sage. Label not approved.

## FLOURS

Ch. 187, Laws of 1905. Section 1. No person shall manufacture for sale within this state, or offer or expose for sale, have in possession with intent to sell, or sell or exchange any ground buckwheat containing any product of wheat, corn, rice, or other foreign substance, unless each and every package thereof shall be distinctly branded or labeled in letters not less than one-half inch in length with the name of the maker and factory, and the location of such factory, and the words "Buckwheat flour compound," together with the words, "This buckwheat flour compound contains the following ingredients and none other" and immediately after the latter words shall appear in the same size letters the true names of each and every ingredient of such mixture or compound. Provided, that this act shall not be construed as prohibiting the manufacture and sale of Self-Rising Buckwheat Flour when labeled or branded as such and when the same consists only of pure buckwheat flour, salt, sodium bicarbonate and calcium acid phosphate, cream of tartar or tartaric acid.

Section 2. Any brand or label herein required shall be an inseparable part of the general or distinguishing label, and such label shall be that principal and conspicuous sign under which it is sold, and any other label or printed matter upon the package shall not be in contravention of the requirements of this act.

Section 3. The having in possession of any buckwheat flour compound, which is not branded or labeled as hereinbefore required and directed upon the part of any person engaged in the public or private sale of such article, shall for the purpose of this act, be deemed prima facie evidence of intent to sell the same.

Section 4. The taking of orders or the making of agreements or contract by any person, firm or corporation or by any agent or representative thereof, for the future delivery of buckwheat flour compound shall be deemed a sale within the meaning of this act.

Section 5. Any person who shall violate any of the provisions of this act shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not less than twenty-five dollars nor more than one hundred dollars, or by imprisonment in the county jail for a period of not less than thirty nor more than ninety days, or by both such fine and imprisonment, in the discretion of the court.

See general laws on adulteration and misbranding, pages 8-9.

## STANDARDS.

"Flour is the fine, clean, sound product made by bolting wheat meal and contains not more than thirteen and one-half (13.5) per cent of moisture, not less than one and twenty-five hundredths (1.25) per cent of nitrogen, not more than one (1) per cent of ash, and not more than fifty hundredths (0.50) per cent of fiber.

Gluten flour is the clean, sound product made from flour by the removal of starch and contains not less than five and six-tenths (5.6) per cent of nitrogen and not more than ten (10) per cent of moisture."

## BUCKWHEAT FLOUR PASSED AS LAWFUL.

Date.	Purchased of or submitted by	Remarks.
1908.		
Jan. 8	*Mrs. Cynthia Edwards, Wautoma....	
Jan. 8	*James Gibson, Madison .....	
Jan. 13	*Frank Zach, Prairie du Chien .....	
Jan. 13	*Frank Zach, Prairie du Chien .....	
Jan. 16	*F. T. Nolo, Alma Center .....	
Jan. 29	*S. N. Baum, Pittsville .....	
Jan. 29	*H. B. Allen, Richland Center .....	
Feb. 1	*W. C. Smith, Cottage Grove .....	
Feb. 7	*Jake King, R. F. D. 5, Oshkosh.....	
Mch. 3	*G. F. Caldwell, Augusta .....	
Mch. 19	*Harry Parfney, Richland Center ....	

## OTHER FLOUR.

Feb. 1	*Miss Ida Herfurth, Madison.....	Represented to be the same as gluten flour, though sold as whole wheat product. Pronounced whole wheat flour. Not a gluten flour.
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\* Submitted.

## GLUCOSE AND SYRUP MIXTURES

Section 4601-1a of the Statutes. No person, firm or corporation, by himself, officer, servant or agent, or as the officer, servant or agent of any other person, firm or corporation, shall sell, offer or expose for sale or have in his possession with intent to sell any syrup, maple syrup, sugar-cane syrup, sugar syrup, refiners' syrup, sorghum syrup, molasses or glucose, unless the same be true to the name under which it is sold and as defined in the standards of purity for food products as latest promulgated by the United States Secretary of Agriculture, and unless the barrel, cask, keg, can, pail or other original container, containing the same be distinctly branded or labeled with the true name of its contents, as defined in the above named standards; and no person, firm or corporation, by himself, officer, servant or agent, or as the officer, servant or agent of any other person, firm or corporation, shall sell, offer or expose for sale or have in his possession with intent to sell any syrup, maple syrup, sugar-cane syrup, sugar syrup, refiners' syrup, sorghum syrup or molasses, mixed with glucose, unless the barrel, cask, keg, can, pail or other original container, containing the same be distinctly branded or labeled so as to plainly show the true name of each and all of the ingredients composing such mixture, as follows:

First: In case said mixture shall contain glucose in a proportion not to exceed 50 per cent. by weight, it shall be labeled and sold as "Maple Syrup and Glucose," "Sugar-Cane Syrup and Glucose," "Sugar Syrup and Glucose," "Refiners Syrup and Glucose," "Sorghum Syrup and Glucose," or "Molasses and Glucose," as the case may be:

Second: In case said mixture shall contain glucose in a proportion exceeding 50 per cent. and not more than 75 per cent. by weight, it shall be labeled and sold as "Glucose and Maple Syrup," "Glucose and Sugar-Cane Syrup," "Glucose and Sugar Syrup," "Glucose and Refiners' Syrup," "Glucose and Sorghum Syrup," "Glucose and Molasses," as the case may be:

Third: In case said mixture shall contain glucose in a proportion exceeding 75 per cent. by weight, it shall be labeled and sold as "Glucose flavored with Maple Syrup," "Glucose flavored with Sugar-Cane Syrup," "Glucose flavored with Sugar Syrup," "Glucose flavored with Refiners' Syrup," "Glucose flavored with Sorghum Syrup," "Glucose flavored with Molasses," as the case may be. The labels provided for in this section shall be printed in type not smaller than eight-point Brevier caps and shall bear the name and address of the manufacturer or dealer. In mixtures in which glucose shall be mixed with any syrup or molasses in the proportion of not more than 50 per cent. by weight of the total product, the word "Glucose" shall be printed in type of the same size and style and the same color as may be used in printing the name of any syrup or molasses with which the glucose may be mixed, and said mixture shall be so labeled and sold. In mixtures in which glucose shall be mixed with any syrup or molasses in the proportion of not more than 75 per cent. and not less than 50 per cent. by weight, the word "Glucose" shall be printed in the same color and in type of the same style but one-third larger than the size of the letters which may be used in the printing of the name of any syrup or molasses with which it may be mixed, and such mixture shall be so labeled and sold. In all mixtures in which glucose is used in the proportion of more than 75 per cent. by weight, the name of the syrup or molasses which is mixed with the glucose for flavoring purposes and the words showing that said syrup or molasses is used as a flavoring, as provided in this section, shall be printed on the label of each container of such mixture in the same color, and in the same style of type but not larger than ten-point caps. The mixtures or syrups designated in this section shall have no other designation or brand than herein required that represents or is the name of any article which contains a saccharine substance; and all brands or labels required shall be an inseparable part of the general or distinguishing label, and the general or distinguishing label shall be the principal and conspicuous sign under which it is sold; nor shall any of the aforesaid glucose, syrups, molasses or mixtures contain any substance injurious to health, nor any other article or substance otherwise prohibited by law in articles of food.

Section 4601-2a. No person, firm or corporation, by himself, officer, servant or agent, or as the officer, servant or agent of any other person, firm or corporation, shall solicit or take orders for delivery, or sell, exchange, deliver or have in possession with intent to sell, exchange or expose, or offer for sale or exchange, any maple syrup mixed with sugar-cane syrup, sugar syrup, refiners' syrup, sorghum syrup or molasses, unless the same be labeled and sold so as to show the true name of each and all of the ingredients contained therein and unless each barrel, cask, keg, can, pail or other original container, containing the same, be distinctly branded or labeled and sold so as to plainly show the true name of each and all of the ingredients composing such mixture, as follows:

First: If said mixture shall contain 50 per cent. or more by weight of maple syrup, it shall be labeled and sold as "Maple Syrup and Sugar-Cane Syrup," "Maple Syrup and Sugar Syrup," "Maple Syrup and Refiners' Syrup," "Maple Syrup and Sorghum Syrup," or "Maple Syrup and Molasses," as the case may be;

Second: If said mixture shall contain not less than 25 per cent. nor more than 49 per cent., by weight, of maple syrup, it shall be labeled and sold as "Sugar-Cane Syrup and Maple Syrup," "Sugar Syrup and Maple Syrup," "Refiners' Syrup and Maple Syrup," "Sorghum Syrup and Maple Syrup," or "Molasses and Maple Syrup," as the case may be:

Third: If said mixture shall contain less than 25 per cent., by weight, of maple syrup, it shall be labeled and sold as "Sugar-Cane Syrup flavored with Maple Syrup," "Sugar Syrup flavored with Maple Syrup," "Refiners' Syrup flavored with Maple Syrup," "Sorghum Syrup flavored with Maple Syrup," or "Molasses flavored with Maple Syrup," as the case may be.

All labels provided for in this section shall be printed in English, in type not smaller than eight-point Brevier caps and shall bear the name and address of the manufacturer or dealer. In mixtures in which maple syrup shall be mixed with molasses or any or either of the syrups designated in this section in the proportion of not less than 50 per cent. by weight of the total product, the word "Maple" shall be printed in type of the same size and style and in the same color as may be used in the printing of the name of any other syrup or molasses with which the maple syrup may be mixed, and said mixture shall be so labeled and sold. In mixtures in which maple syrup shall be mixed with molasses or any or either of the syrups designated in this section, in the proportion of not less than 25 per cent. and not more than 49 per cent., by weight of the total product, the word "Maple" shall be printed in the same color, and in type of the same style, but not larger than two-thirds of the size, of the letters which may be used in printing the name of any syrup or molasses with which maple syrup may be mixed, and such mixture shall be so labeled and sold. In all cases in which maple syrup shall be mixed with any of the syrups designated in this section, in the proportion of less than 25 per cent., by weight of the total product, the word "Maple" and the words showing it to be used as a flavor, as provided in this section, shall be printed on the label of each container of such mixture in the same color and in the same size and style of type, but not larger than ten-point Brevier caps. The mixtures or syrups designated in this section shall have no other designation or brand than herein required that represents or is the name of any article which contains a saccharine substance: and all brands or labels required shall be an inseparable part of the general or distinguishing label, and the general or distinguishing label shall be the principal and conspicuous sign under which it is sold: nor shall any of the aforesaid glucose, syrups, molasses or mixtures contain any substance injurious to health, nor any other article or substance otherwise prohibited by law in articles of food.

4601-3a. Whoever shall do any of the acts or things prohibited, or neglect, or refuse, to do any of the acts or things required by this act, or in any way violate any of the provisions of this act shall be guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of not less than twenty-five dollars nor more than one hundred dollars or by imprisonment in the county jail not less than ten days nor more than sixty days.

#### SIRUPS, STANDARDS.

1. Sirup is the sound product made by purifying and evaporating the juice of a sugar-producing plant without removing any of the sugar.
2. Sugar-cane sirup is sirup made by the evaporation of the juice of the sugar-cane or by the solution of sugar-cane concrete, and contains not more than thirty (30) per cent of water and not more than two and five-tenths (2.5) per cent of ash.
3. Sorghum sirup is sirup made by the evaporation of sorghum juice or by the solution of sorghum concrete, and contains not more than thirty (30) per cent of water and not more than two and five-tenths (2.5) per cent of ash.
4. Maple sirup is sirup made by the evaporation of maple sap or by the solution of maple concrete, and contains not more than thirty-two (32) per cent of water and not less than forty-five hundredths (0.45) per cent of maple sirup ash.
5. Sugar sirup is the product made by dissolving sugar to the consistence of a sirup and contains not more than thirty-five (35) per cent of water.

#### GLUCOSE PRODUCTS, STANDARD.

Glucose, mixing glucose, confectioner's glucose, is a thick, sirupy, colorless product made by incompletely hydrolyzing starch, or a starch-containing substance, and decolorizing and evaporating the product. It varies in density from forty-one (41) to forty-five (45) degrees Baumé at a temperature of 100° Fahr. (37.7° C.), and conforms in density, within these limits, to the degree Baumé it is claimed to show, and for a density of forty-one (41) degrees Baumé contains not more than twenty-one (21) per cent and for a density of forty-five (45) degrees not more than fourteen (14) per cent of water. It contains on a basis of forty-one (41) degrees Baumé not more than one (1) per cent of ash, consisting chiefly of chlorids and sulphates.

GLUCOSE MIXTURES.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Jan. 20	Golden Glory Syrup with Cane Flavor.	Gould, Wells & Black- burn Co., Madison.	Corn Products Manfg. Co., Davenport, Ia.	Golden Glory .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 20	Karo Corn Syrup with Cane Flavor.	Gould, Wells & Black- burn Co., Madison.	Corn Products Manfg. Co., Davenport, Ia.	Karo .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 20	Karo Corn Syrup with Cane Flavor.	Gould, Wells & Black- burn Co., Madison.	Corn Products Manfg. Co., Davenport, Ia.	Karo .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 20	Golden Glory Syrup with Cane Flavor.	Gould, Wells & Black- burn Co., Madison.	Corn Products Manfg. Co., Davenport, Ia.	Golden Glory .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 21	Golden Glory Syrup with Cane Flavor.	Findlay & Co., Madison.	Gould, Wells & Black- burn Co., Madison.	Golden Glory .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 21	Karo Corn Syrup with Cane Flavor.	Findlay & Co., Madison.	Gould, Wells & Black- burn Co., Madison.	Karo .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 21	Karo Corn Syrup with Cane Flavor.	Gould, Wells & Black- burn Co., Madison.	Corn Products Manfg. Co., Davenport, Ia.	Karo .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Jan. 21	Golden Glory Syrup with Cane Flavor.	Gould, Wells & Black- burn Co., Madison.	Corn Products Manfg. Co., Davenport, Ia.	Golden Glory .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Mch. 2	Corn Syrup with Cane Flavor.	A. M. Anderson, Oregon.	Corn Products Manfg. Co., Davenport, Ia.	Karo .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.



## GLUCOSE MIXTURES—Continued.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Mch. 2	Corn Syrup with Cane Flavor.	J. P. Connor, Oregon....	Corn Products Manfg. Co., Davenport, Ia.	Karo .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.
Mch. 2	Corn Syrup with Cane Flavor.	T. H. Grady, Oregon....	Corn Products Manfg. Co., Davenport, Ia.	Karo .....	A mixture of 85 per cent commercial glucose and 15 per cent refiners' syrup. Not lawfully labeled.
Mar. 2	Corn Syrup .....	B. McDermott Sons, Oregon.	Corn Products Co., Chicago, U. S. A.	.....	A mixture of 85 per cent commercial glucose and 15 per cent refiners' syrup. Not lawfully labeled.
May 4	Glucose Flavored with Cane.	Edw. Erbe, Atwood Ave., Madison.	Franklin MacVeagh & Co., Chicago.	Clover Leaf .....	Sold as "syrup." Lawfully labeled but sale as "syrup" not lawful.
June 9	Corn Syrup.....	B. J. Dodge & Co., Poy- nette.	Corn Products Manfg. Co., Davenport, Ia.	Rex .....	A compound glucose mixture containing more than 75 per cent commercial glucose. Not lawfully labeled.

**HONEY**

Ch. 229, laws of 1905. Section 1. No person shall, himself, or by his agent or servant, sell, offer or expose for sale or have in his possession with intent to sell as and for honey any substance whatsoever that is not the legitimate and exclusive product of the honey bee, to-wit, the nectar of flowers, honey dew and natural saccharine exudations of plants gathered and stored in the comb by bees.

**STANDARDS.**

1. Honey is the nectar and saccharine exudations of plants gathered, modified, and stored in the comb by honey bees (*Apis mellifica* and *A. dorsata*); is laevo-rotatory, contains not more than twenty-five (25) per cent of water, not more than twenty-five hundredths (0.25) per cent of ash, and not more than eight (8) per cent of sucrose.
2. Comb honey is honey contained in the cells of comb.
3. Extracted honey is honey which has been separated from the uncrushed comb by centrifugal force or gravity.
4. Strained honey is honey removed from the crushed comb by straining or other means.

Date.	Purchased of or Submitted by.	Remarks.
1908. Feb. 3	*C. F. Lohr & Son, Hartford.....	Passed.

\* Submitted.

**ICE CREAM**

See general laws on adulteration and misbranding, pages 8-9.

**STANDARDS**

- "1. Ice cream is a frozen product made from cream and sugar, with or without a natural flavoring, and contains not less than fourteen (14) per cent of milk fat.
- "2. Fruit ice cream is a frozen product made from cream, sugar, and sound, clean, mature fruits, and contains not less than twelve (12) per cent of milk fat.
- "3. Nut ice cream is a frozen product made from cream, sugar, and sound, nonrancid nuts, and contains not less than twelve (12) per cent of milk fat."

Date.	Purchased of	Manufacturer or Jobber.	Per cent fat.	Remarks.
1908. June 3	M. W. Keeley, State St., Madison.	M. W. Keeley, Madison.	14.7	Passed.
June 3	Thos. Olson, Main St., Madison.	Thos. Olson, Madison....	20.0	Passed.
June 3	Model Creamery, Madison.	Model Creamery, Madison	18.0	Contains gums. Not lawfully salable as "ice cream."
June 3	Louis Labrou, King St., Madison.	.....	16.0	Passed.
June 3	Louis Russos, Wilson St., Madison.	.....	15.0	Passed.
June 3	Chas. Waltzinger, Madison.	Chas. Waltzinger, Madison.	17.0	Contains gelatin. Not lawfully salable as "ice cream."
June 3	Cardinal Creamery Co., Madison.	Cardinal Creamery Co., Madison.	18.4	Contains gums. Not lawfully salable as "ice cream."

## JELLIES, JAMS AND PRESERVES

See general laws on adulteration, misbranding and prohibition of chemical preservatives, pages 8-9.

STANDARDS.

"Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid, and ethereal flavors.

"Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar (sucrose) sirup, with or without spices or vinegar, and conforms in name to that of the fruit used, and in its preparation not less than forty-five (45) pounds of fruit are used to each fifty-five pounds of sugar.

"Honey preserve is preserve in which honey is used in place of sugar (sucrose) sirup.

"Glucose preserve is preserve in which a glucose product is used in place of sugar (sucrose) sirup.

"Jam, marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar (sucrose), with or without spices or vinegar, by boiling to a pulpy or semi-solid consistence, and conforms in name to the fruit used, and in its preparation not less than forty-five (45) pounds of fruit are used to each fifty-five (55) pounds of sugar.

"Glucose jam, glucose marmalade, is jam in which a glucose product is used in place of sugar (sucrose).

"Fruit butter is the sound product made from fruit juice and clean, sound, properly matured and prepared fruit, evaporated to a semisolid mass of homogeneous consistence, with or without the addition of sugar and spices or vinegar, and conforms in name to the fruit used in its preparation.

"Glucose fruit butter is fruit butter in which a glucose product is used in place of sugar (sucrose).

"Jelly is the sound, semisolid, gelatinous product made by boiling clean, sound, properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice to which sugar (sucrose) is added, and conforms in name to the fruit used in its preparation.

"Glucose jelly is jelly in which a glucose product is used in place of sugar (sucrose).

Date.	Purchased for	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Feb. 19	Jelly .....	Jelly, 20 per cent apple juice; 80 per cent corn sirup.	August Haak & Son, Madison ...	Corn Products Manufacturing Co., Davenport, Ia.	Crescent .....	Not lawful.
Feb. 26	Compound Glucose-Strawberry-Apple Jam.	Compound Glucose Strawberry Apple Jams, 20 per cent strawberry stock; 20 per cent apple stock; 50 per cent glucose; 10 per cent granulated sugar.	E. R. Pahl & Co., 294 Broadway, Milwaukee.	St. Louis Syrup and Preserving Co., St. Louis, Mo.	Hi-Value .....	Contains 1.8 per cent cane sugar; 75 per cent glucose; scarcely any strawberries. Misbranded.
Mch. 11	Damson Fruit Preserves.	Fruit Preserves—Pure.	Halverson & Hanson, Blair .....	McNeil & Higgins Co., Chicago.	Blossom .....	Passed.

LARD

STANDARD.

"Lard is the rendered fresh fat from hogs in good health at the time of slaughter, is clean, free from rancidity, and contains, necessarily incorporated in the process of rendering, not more than one (1) per cent of substances, other than fatty acids and fat."

Date.	Purchased of or submitted by	Remarks.
1908.		
Jan. 18	Charles Olson, Knapp .....	Contains cotton-seed oil. Adulterated.
Apr. 15	R. Kiessling, Medford .....	Passed.
May 25	*J. W. Sharp, Seymour .....	Passed.

LINSEED OIL

Ch. 234, Laws of 1899. Section 1. No person, firm, association or corporation shall manufacture for sale, offer or expose for sale in this state, any flaxseed or linseed oil for other than food purposes, unless the same answers a chemical test for purity recognized in the United States pharmacopoeia, or any flaxseed or linseed oil as "boiled linseed oil" unless the same shall have been put, in its manufacture, to a temperature of two hundred and twenty-five degrees Fahrenheit.

Section 2. No person, firm, association or corporation shall at any time, personally or by clerk or agent, sell, expose or offer for sale, dispose of or attempt to dispose of, any flaxseed or linseed oil unless so done under the true name of such oil, and unless each tank car, tank, barrel, keg, can or other vessel containing such oil has, at such time, distinctly and durably painted, stamped, stenciled or marked thereon, in ordinary full-faced capital letters, not less than five line pica in size, the true name thereof in the words "pure linseed oil raw" or "pure linseed oil boiled," as the fact may be, and also the name and address of the manufacturer or dispenser thereof.

Section 3. No person, firm, association or corporation shall, at any time, personally or by any clerk or agent, adulterate any "pure linseed oil raw" or "pure linseed oil boiled," by adding thereto any other oil or substance or thing whatever, for the purpose or with the intent to sell, expose or offer for sale, such mixture or compound as the pure article, nor shall any person, firm, association or corporation, personally or by any clerk or agent, paint, stamp, stencil or mark any tank car, tank, barrel, keg, can or other vessel so as to falsely represent that it contains either "pure linseed oil raw" or "pure linseed oil boiled," nor so as to falsely represent the manufacturer thereof, nor permit or suffer any such false painting, stamping, stenciling or marking.

Section 4. Any person, firm, association or corporation who shall violate any of the provisions of this act shall be punished by a fine of not less than fifty dollars, nor more than five hundred dollars, or by imprisonment in the county jail for not more than six months.

LINSEED OIL PASSED AS LAWFUL.

Date	Sample.	Purchased of or submitted by	Manufacturer or Jobber.	Remarks.
1908.				
Feb. 20	Raw Linseed Oil.	*A. C. Johnson, Camp Douglas.		
Feb. 21	Raw Linseed Oil.	*Chas. Bergen, Peebles, R. F. D., 37.		

ADULTERATED LINSEED OIL.

Apr. 9	Raw Linseed Oil.	*Mr. Deming, Madison.	.....	Not a pure linseed oil.
May 7	Raw Linseed Oil.	*Edwards Bros., MacFarland.	Great Eastern Oil & Paint Co., Omaha, Neb.	Contains over 30 per cent mineral oil.
May 12	Bolled Linseed Oil.	*Edwards Bros., MacFarland.	Great Eastern Oil & Paint Co., Omaha, Neb.	Heavily adulterated with petroleum oil.
May 12	Raw Linseed Oil.	*Edwards Bros., MacFarland.	Great Eastern Oil & Paint Co., Omaha, Neb.	Heavily adulterated with petroleum oil.

\* Submitted.

## MAPLE SUGAR

Ch. 151, Laws of 1905. Section 1. Any person who shall manufacture for sale, sell, or offer or expose for sale or have in his possession with intent to sell, as and for maple sugar or maple syrup, any article other than the unadulterated product produced by the evaporation of pure sap from the maple tree, shall forfeit to the state of Wisconsin, the sum of not less than twenty-five dollars nor more than one hundred dollars.

See general law on adulteration and misbranding, pages 8-9.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Remarks.
1908. Jan. 28	P. V. Maple Sugar.	The Church Co., Oshkosh.	The Ives Co., Osh kosh, Wis.	Not a pure maple sugar. Heavily adulterated.
May 27	.....	H. L. Platte, Prescott.	.....	Passed.

## MEAT PRODUCTS

See general laws on adulteration, misbranding and prohibition of chemical preservatives, pages 8-9.

## STANDARDS

1. Meat, flesh, is any clean, sound, dressed, and properly prepared edible part of animals in good health at the time of slaughter, and if it bears a name descriptive of its kind, composition, or origin, it corresponds thereto. The term "animals," as herein used, includes not only mammals, but fish, fowl, crustaceans, mollusks, and all other animals used as food.

2. Fresh meat is meat from animals recently slaughtered and properly cooled until delivered to the consumer.

3. Cold storage meat is meat from animals recently slaughtered and preserved by refrigeration until delivered to the consumer.

4. Salted, pickled, and smoked meats are unmixed meats preserved by salt, sugar, vinegar, spices, or smoke, singly or in combination, whether in bulk or in suitable containers.

5. Manufactured meats are meats not included in paragraphs 2, 3, and 4, whether simple or mixed, whole or comminuted, in bulk or in suitable containers,\* with or without the addition of salt, sugar, vinegar, spices, smoke, oils, or rendered fat. If they bear names descriptive of kind, composition, or origin, they correspond thereto and when bearing such descriptive names, if force or flavoring meats are used, the kind and quantity thereof are made known.

Date.	Kind.	Purchased of	Remarks.
1908. Jan. 29	Sausage .....	Peterson & Rehbein, Ap- pleton.	Contains starch. Held to be adulterated.
Apr. 28	Home-made Sau- sage.	John Schumann, Hustis- ford.	Contains added starch. Held to be adulterated.
May 22	Bologna Sausage.	Fox & Zimbrich, Water- loo.	Passed.
May 23	Bologna Sausage.	W. A. Piek, Marshall ..	Passed.

\* Suitable containers for keeping moist food products such as sirups, honey, condensed milk, soups, meat extracts, meats, manufactured meats, and undried fruits and vegetables, and wrappers in contact with food products, contain on their surfaces, in contact with the food product, no lead, antimony, arsenic, zinc or copper or any compounds thereof or any other poisonous or injurious substance. If the containers are made of tin plate they are outside-soldered and the plate in no place contains less than one hundred and thirteen (113) milligrams of tin on a piece five (5) centimeters square or one and eight-tenths (1.8) grains on a piece two (2) inches square.

The inner coating of the containers is free from pin holes, blisters, and cracks.

If the tin plate is lacquered, the lacquer completely covers the tinned surface within the container and yields to the contents of the container no lead, antimony, arsenic, zinc or copper or any compounds thereof, or any other poisonous or injurious substance.

## MILKS

Section 4607, Statutes of 1898, as amended by ch. 138, laws of 1905. Any person who shall sell or offer for sale, 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 or person, any adulterated milk or any adulterated cream shall be guilty of a misdemeanor, and upon conviction thereof, shall be punished by a fine of not less than twenty-five dollars nor more than one hundred dollars or be imprisoned in the county jail not less than thirty days nor more than sixty days.

Section 4607a, Statutes of 1898, as amended by ch. 138, laws of 1905. In all prosecutions under the preceding section, or any other section of these statutes, or laws amendatory thereof or supplementary thereto, relating to the sale of adulterated milk or adulterated cream, the term adulterated milk shall mean: Milk containing less than three percentum of milk fat, or milk containing less than eight and one-half percentum of milk solids not fat, or milk drawn from cows within eight days before or four days after parturition, or milk from which any part of the cream has been removed, or milk which has been diluted with water or any other fluid, or milk to which has been added or into which has been introduced any coloring matter or chemical or preservative or deleterious or filthy substance or any foreign substance whatsoever, or milk drawn from cows kept in a filthy or unhealthy condition, or milk drawn from any sick or diseased cow or cow having ulcers or other running sores, or milk drawn from cows fed unwholesome food, or milk in any stage of putrefaction, or milk contaminated by being kept in stables containing cattle or other animals. The term adulterated cream shall mean cream containing less than eighteen percentum of milk fat, or cream taken from milk drawn from cows within eight days before or four days after parturition, or cream from milk to which has been added or introduced any coloring matter or chemical or preservative or deleterious or filthy substance or any foreign substance whatsoever, or cream from milk drawn from cows kept in a filthy or unhealthy condition, or cream from milk drawn from any sick or diseased cow or cow having ulcers or other running sores, or cream from milk drawn from cows fed unwholesome food, or cream contaminated by being kept in stables containing cattle or other animals, or cream to which has been added or into which has been introduced any coloring matter or chemical or preservative or deleterious or filthy substance or any foreign substance whatsoever, or cream in any stage of putrefaction; provided, that nothing in this act shall be construed to prohibit the sale of pasteurized milk or cream to which viscogen or sucrate of lime has been added solely for the purpose of restoring the viscosity, if the same be distinctly labeled in such manner as to advise the purchaser of its true character; and providing that nothing in this act shall be construed as prohibiting the sale of milk commonly known as "skimmed milk," when the same is sold as and for "skimmed milk." Milk drawn from cows within eight days before or four days after parturition, or milk to which has been added or into which has been introduced any coloring matter or chemical or preservative or deleterious or filthy substance or milk drawn from cows kept in a filthy or unclean condition, or milk drawn from any sick or diseased cow or cow having ulcers or other running sores, or milk drawn from cows fed unwholesome food, or milk contaminated by being kept in stables containing cattle or other animals and cream from any such milk, or cream in any stage of putrefaction are hereby declared to be unclean and unsanitary milk or unclean and unsanitary cream, as the case may be.

## HERD SAMPLES MILKED IN PRESENCE OF INSPECTORS.

Date.	From herd of	Sp. Gr.	Per ct. fat.	Total solids.	Solids not fat.	I. R. reading of whey (20° C.)	Remarks.
1908.							
Mich. 24	John Laughney, Tess Corners.....	1.0300	8.0	10.74	7.74	89.75	Night's milk.
Mich. 24	John Kelley, Tess Corners.....	1.0308	8.6	12.14	8.54	41.40	Night's milk.
Mich. 24	John Spitzner, Sr., Tess Corners.....	1.0310	8.3	11.61	8.41	41.15	Night's milk.
Mich. 25	John Burns, Tess Corners.....	1.0324	2.45	10.80	8.35	.....	
Mich. 25	Wm. Small, Tess Corners.....	1.0304	8.25	11.46	8.21	41.00	
Mich. 25	Aug. Riese, Tess Corners.....	1.0316	8.35	12.02	8.67	41.00	
Apr. 8	Feri Latsch, Lake Mills.....	1.0300	8.25	11.88	8.13	40.65	
Apr. 6	A. R. Hurrer, New London.....	.....	8.5	.....	.....	.....	
Apr. 6	Fred Kussrow, New London.....	.....	8.2	.....	.....	.....	
Apr. 6	W. Pomeroy, New London.....	.....	8.5	.....	.....	.....	
Apr. 25	Chas. Drakes, Plainfield.....	1.0305	8.0	11.02	8.02	40.70	
Apr. 30	Joe Langton, Medford.....	1.0297	8.3	11.84	8.04	40.45	
May 1	Eugene Tibbits, Plainfield.....	1.0274	8.55	11.00	7.54	39.20	Night's milk.
May 1	Eugene Tibbits, Plainfield.....	1.0275	8.7	11.87	7.67	39.50	Morning's milk.
May 1	John Myrechuck, Plainfield, R. D.....	1.0307	8.6	11.93	8.33	40.80	Night's milk.
May 1	John Myrechuck, Plainfield, R. D.....	.....	4.15	12.77	8.62	41.80	Morning's milk.
May 15	Adolph Spaeth, Hartford.....	1.0318	8.0	11.59	8.59	41.20	Night's milk.
May 15	Fred Brose, Hartford.....	1.0329	8.45	11.41	7.96	39.80	Night's milk.
June 8	Louis Gundrum, Allenton.....	.....	8.7	12.96	9.26	.....	Morning's milk.
June 8	Louis Gundrum, Allenton.....	.....	8.5	12.65	9.15	.....	
June 8	Louis Kuhnaupt, Allenton.....	.....	8.0	11.80	8.80	.....	
June 25	J. McGuire, Calamine.....	1.0320	8.6	12.36	8.76	.....	

MILKS FROM CITY MILK SUPPLIES.

Lawful Milks from City Milk Supplies

Date.	Dealer.	Sp. Gr.	Per ct. fat.	Per cent total solids.	Per cent solids not fat.	Remarks.
1908.						
Jan. 21	Model Creamery Co., Madison.....	1.0318	3.8	12.61	9.06	
Jan. 31	John Puls, Fountain City.....	1.0333	3.53	13.67	9.32	Tested for preservatives. None found.
Feb. 16	Ed. Rabuck, Wonevoo.....	1.0335	4.35	13.80	9.40	Tested for preservatives. None found.
Feb. 16	Ed. Rabuck, Wonevoo.....	1.0350	4.4			
Apr. 28	Aug. Moritz, Hustisford.....	1.0295	3.60			

Unlawful Milks from City Milk Supplies

Feb. 25	John Hoff, La Crosse.....	1.0267	2.85	10.09	7.24	
Feb. 25	Mrs. F. McDonald, La Crosse.....	1.0275	2.8	10.1	7.3	
Feb. 26	Fenton Wachter, Prairie du Chien.....		2.6	11.27	8.68	
Feb. 26	Abrens Bros., Prairie du Chien.....		2.65	11.69	9.04	
Feb. 26	Wm. Swingle, Prairie du Chien.....		2.25	10.73	8.48	
Mar. 12	R. M. Trestrall, Elroy.....		2.0			Served with meal at R. R. Eating House.
Apr. 10	E. W. Eddy, Madison.....	1.0350	1.5			Served at lunch counter.
Apr. 10	G. W. Campbell, Lake Mills.....	1.0332	2.35	11.05	8.7	



MILKS DELIVERED TO CREAMERIES OR CHEESE FACTORIES.  
Lawful Milks Delivered to Creameries or Cheese Factories

Date.	Patron.	Delivered to	Sp. Gr.	Per cent fat.	Per cent total solids.	Per cent solids not fat.	Remarks.
1908.							
Apr. 24	Chas. Drake, West Plainfield..	West Plainfield Creamery, W. Plainfield.	.....	3.00	.....	.....	Sample sour on arrival.
Apr. 24	Thos. Roycraft, Chippewa Falls.	Lafayette Cry., Chippewa Falls.	.....	3.00	.....	.....	
June 16	Wm. Fink, Calamine.....	Calamine Cheese Factory, Calamine.	1.0623	3.35	12.53	9.18	Night's milk.
June 16	Wm. Fink, Calamine.....	Calamine Cheese Factory, Calamine.	1.0623	4.45	13.76	9.31	Morning's milk.
June 16	J. McGuire, Calamine.....	Calamine Cheese Factory, Calamine.	1.0615	4.50	13.60	9.19	Morning's milk.
June 16	F. Holmes, Calamine.....	Calamine Cheese Factory, Calamine.	1.0625	4.00	13.16	9.16	Morning's milk.

Unlawful Milks Delivered to Creameries or Cheese Factories

Date.	Patron.	Delivered to	Sp. Gr.	Per cent fat.	Per cent total solids.	Per cent solids not fat.	I. R. reading of whey (30° c.)	Remarks.
1908.								
Jan. 14	John Loughack, Green Bay, R. S. Small, Tess Corners.....	Pittsfield Cheese Factory, Green Bay.	1.0173	2.45	7.10	4.65	28.75	Heavily watered.
Feb. 24	John Spitzner, Sr., Tess Corners.....	Creamery, Tess Corners.....	1.0290	3.00	10.98	7.93	40.80	Skimmed. See
Feb. 24	John Spitzner, Sr., Tess Corners.....	Creamery, Tess Corners.....	1.0233	2.00	10.37	8.37	41.20	herd sample.
Feb. 24	John Kelley, Tess Corners.....	Creamery, Tess Corners.....	1.0274	3.45	10.84	7.29	38.10	Watered. See herd sample.

UNLAWFUL MILKS DELIVERED TO CREAMERIES OR CHEESE FACTORIES—Continued.

Date.	Patron.	Delivered to	Sp. Gr.	Per cent fat.	Per cent total solids.	Per cent solids not fat.	I. R. reading of whey (30° c.)	Remarks.
1908. Mch. 24	John Laughney, Tess Corners..	Creamery, Tess Corners.....	1.0303	2.56	10.51	8.01	40.00	Skimmed. See herd sample.
Mch. 25	Aug. Riese, Tess Corners.....	Creamery, Tess Corners.....	1.0323	2.85	11.70	8.05	41.30	Skimmed. See herd sample.
Apr. 3	Ferd. Latsch, Lake Mills.....	Star Cry., Lake Mills.....	1.0253	3.00	9.98	6.98	37.00	Watered. See herd sample.
Apr. 24	John Myrechuck, Plainfield,	W. Plainfield Cry.,, W.	1.0275	2.80	10.25	7.45	38.30	Watered. See herd sample.
Apr. 24	Eugene Tibbits, Plainfield, R. 1	W. Plainfield Cry.,, W.	1.0275	3.50	11.02	7.52	38.75	Watered. See herd sample.
Apr. 30	Fred Brose, Hartford.....	Pleasant Hill Cheese Factory, Hartford.	1.0273	2.95	10.24	7.29	38.00	
Apr. 29	A. Spaeth, Hartford.....	Northwestern Cheese Factory, Hartford.	1.0308	2.70	10.91	8.21	41.90	
Apr. 30	Joe Langton, Medford.....	Schuliz, Cheese Factory, Taylor Co.	1.0315	3.00	11.40	8.40	40.50	
Apr. 30	F. Fritsche, Medford.....	Schuliz, Cheese Factory, Taylor Co.	1.0305	2.90	11.14	8.24	40.50	
May 2	Bartlett Kearns, Oconomowoc,	Mapleton Cheese Factory, Waukesha Co.	1.0300	2.80	10.68	7.83	40.35	
May 27	R. 95 Louis Gundrum, Allenton.....	Addison Cheese Factory, Washington Co.	1.0327	2.80	11.69	8.80	.....	Skimmed. See herd sample.
May 27	Louis Kuhnaupt, Allenton.....	Addison Cheese Factory, Washington Co.	1.0333	2.70	11.39	8.69	.....	
June 16	J. McGuire, Calamine.....	Calamine Cheese Factory, Lafayette Co.	1.0223	2.85	11.90	9.05	.....	Skimmed. See herd sample.
June 16	F. Holmes, Calamine.....	Calamine Cheese Factory, Lafayette Co.	1.0336	2.80	11.83	9.03	.....	

## SUBMITTED MILKS.

Date.	Submitted by	Sp. Gr.	Per cent fat.	Remarks.
1908.				
Jan. 2	Lauritz Olsen, West Deperre.	.....	2.90	Marked No. 19.
Jan. 17	Lauritz Olsen, West Deperre.	.....	3.20	Marked No. 23.
Jan. 20	F. H. Griswold, Ripon.	.....	3.200	
Jan. 20	O. M. Salisbury, Madison.	.....	3.2	
Feb. 2	J. N. Sharp, Ashland.	.....	10.70	Suspected of containing blood. None present.
Feb. 5	J. H. Vollmer, Milton.	.....	3.50	
Feb. 23	F. H. Ahrens, Hustler.	.....	3.50	Marked No. 1.
Feb. 23	F. H. Ahrens, Hustler.	.....	3.00	Marked No. 2.
Feb. 22	O. E. Moehrke, Chilton.	.....	3.45	Marked No. 2.
Feb. 26	D. H. Sheldon, Lake Mills.	.....	3.40	Marked No. 1, Millard.
Feb. 26	D. H. Sheldon, Lake Mills.	.....	3.10	Marked No. 1, Millard.
Feb. 26	D. H. Sheldon, Lake Mills.	.....	3.80	Marked No. 4, F. Sonets.
Feb. 27	D. H. Sheldon, Lake Mills.	.....	3.10	Marked No. 3, Skasberg.
Feb. 28	F. C. Field, Endeavor, R. D. No. 2.	.....	2.80	Marked No. 3.
Feb. 30	F. C. Field, Endeavor, R. D. No. 2.	.....	3.20	Marked No. 5.
Apr. 6	Jos. Erlanger, Madison.	1.0343		Human milk. Total solids 13.0 per cent. Solids not fat 9.8 per cent.
Apr. 7	Lafayette Creamery, Chippewa Falls, R. D.	.....	2.8	
Apr. 14	Prof. Kahlenberg, Madison.	1.034	3.00	Total solids 11.5 per cent. Solids not fat 8.5 per cent.
Apr. 20	Harold Samuel, Denmark, R. 1.	.....	2.00	Marked No. 34.
Apr. 20	Harold Samuel, Denmark, R. 1.	.....	2.70	Marked No. 20.
Apr. 20	Harold Samuel, Denmark, R. 1.	.....	2.67	Marked No. 40.
Apr. 20	Harold Samuel, Denmark, R. 1.	.....	2.87	Marked No. 22.
Apr. 30	J. H. McLaughlin, Minnesota Junction.	.....	4.00	Marked No. 47.
May 4	B. J. Chapin, Cushing.	1.0315	3.10	
May 13	F. H. Ahrens, Hustler.	.....	3.40	
May 13	J. P. Jones, Sec. Georgetown Cry. Co., Georgetown.	.....	3.55	Marked No. 1.
May 13	J. P. Jones, Sec. Georgetown Cry. Co., Georgetown.	.....	2.87	Marked No. 2.
May 20	W. F. Scott, Madison.	1.0312	3.90	
June 5	Baldwin Co-op. Cry. Ass'n, Baldwin.	.....	3.60	Skim-milk.
June 22	O. Pfingster, Sampson.	.....	3.05	Marked L. Wealy.
June 23	O. Pfingster, Sampson.	.....	3.40	Marked C. Geering.

MISCELLANEOUS

See general laws on adulteration, misbranding and prohibition of chemical preservatives, pages 8-9.

Date.	Sample.	Purchased of or Submitted by	Manufacturer or Jobber.	Brand.	Remarks.
1908. Feb. 8	Savalline .....	Klenert Bros., Portage .....	Wolf, Sayer & Hel- ler, Chicago.	Victor .....	Contains sugar, 70.0 per cent; salt, 23.0 per cent, and corn starch.
Feb. 20	Vermicelli .....	M. Jensen, Madison.....	J. B. Canepa, Chi- cago.	.....	Artificially colored. Adulter- ated.
Feb. 27	Berry Pie .....	Klueter Bros., Madison .....	.....	.....	Passed.
Feb. 27	Blackberry Pie .....	Nick Weber, Madison.....	.....	.....	Passed.
Apr. 14	Flour .....	*J. E. Mast, Spooner .....	.....	.....	Contains crystals of strychnine sulphate.
June 17	Bay Rum .....	*R. Schmidt, New Glarus .....	.....	.....	Passed.

\* Submitted.

## OLEOMARGARINE

Section 4607c of the Statutes of 1878, as amended by chapter 151, laws of 1901. Any person who shall by himself, his agent or servant manufacture, buy, sell, offer, ship, consign, expose or have in possession for sale, any cheese manufactured from or by the use of skim milk to which there has been added any fat which is foreign to such milk, or who shall by himself, his agent or servant manufacture, buy, sell, offer, ship, consign, expose or have in possession for sale, within this state, any skimmed-milk cheese or cheese manufactured from milk from which any of the fat originally contained therein has been removed, except such last mentioned cheese is ten inches in diameter and nine inches in height, or who shall, by himself, his agent or servant, render or manufacture, sell or solicit or accept orders for, ship, consign, offer or expose for sale or have in possession, with intent to sell, any article, product or compound made wholly or partly out of any fat, oil or oleaginous substance or compound thereof, not produced from unadulterated milk or cream from the same, and without the admixture or addition of any fat foreign to said milk or cream, which shall be in imitation of yellow butter produced from such milk or cream with or without coloring matter, shall for the first offense be punished by fine of not more than five hundred dollars, nor less than fifty dollars, and for each subsequent offense, by imprisonment in the county jail not to exceed sixty days nor less than ten days, or by fine of not more than five hundred dollars nor less than one hundred dollars, or by both such fine and imprisonment. Nothing in this section shall be construed to prohibit the manufacture or sale of oleomargarine in a separate and distinct form and in such manner as will advise the consumer of its real character, and free from coloration or ingredient that causes it to look like butter.

Section 4607d, Statutes of 1898. Any person who shall sell or offer for sale to any person who asks, sends or inquires for butter, any oleomargarine, butterine or any similar substance made in imitation or semblance of pure butter, not made entirely from the milk of cows, with or without coloring matter, or who shall expose for sale oleomargarine, butterine, or any similar substance not marked and distinguished on the outside of each tub, package or parcel thereof by a placard with the word "oleomargarine," and not having also upon every open tub, package or parcel thereof a placard with the word "oleomargarine," such placard in each case to be printed in plain, uncondensed gothic letters not less than one inch long, and not containing any other words thereon, or who shall sell oleomargarine, butterine or any similar substance from any dwelling, store, office or public mart, without having conspicuously posted thereon the placard or sign, in letters not less than four inches in length, "oleomargarine sold here," or "butterine sold here," which placard or sign shall be approved by the dairy and food commissioner of this state, or who shall sell or deliver from any cart, wagon or other vehicle, upon the public streets or ways, oleomargarine, butterine or any similar substance, without having on the outside of both sides of said cart, wagon or other vehicle a placard, in uncondensed gothic letters not less than three inches in length, "licensed to sell oleomargarine," or who shall furnish or cause to be furnished in any hotel, boarding-house, restaurant or at any lunch counter, oleomargarine, butterine or any similar substance to any guest or patron thereof, without first notifying such guest or patron that the substance so furnished is not butter, shall be punished as provided in the last preceding section.

See decision of supreme court, pages 138-141.

## OLEOMARGARINE PASSED AS LAWFUL.

Date.	Dealer.	Manufacturer or Jobber.
1908.		
Jan. 16	Goetsch & Rabenhorst, Watertown.	Swift & Co., Chicago.
Jan. 17	Kemmer Bros., Madison .....	Morris & Co., Chicago.
Feb. 14	Cohen & Connins, Park Falls.	Swift & Co., Ashland, Wis.

OLEOMARGARINE IN RESEMBLANCE OF YELLOW BUTTER; HELD TO BE UNLAWFUL.

Date.	Dealer.	Manufacturer or Jobber.
1908.		
Jan. 16	R. Block, Watertown .....	Morris & Co., Chicago.
Jan. 18	Fred Eifein, 1115 3rd St., Milwaukee.	Morris & Co., Chicago.
Jan. 23	J. L. Christopherson, 412 Water, St., Eau Claire.	Armour & Co., St. Paul, Minn.
Jan. 23	Sorlie & Buchholz, Eau Claire.	Cudahy & Co., Sioux City, Ia.
Jan. 23	A. J. Kitzman, Eau Claire....	Cudahy & Co., Sioux City, Ia.
Jan. 23	Michael Miley, Eau Claire ....	Swift & Co., St. Paul, Minn.
Jan. 23	Harry Olson, Eau Claire .....	Swift & Co., St. Paul, Minn.
Jan. 28	J. L. Anderson, No. Kaukauna	Morris & Co., Chicago.
Jan. 29	Cohen Bros., Stanley .....	Cudahy & Co., Sioux City, Iowa.
Jan. 30	P. J. Walk, Neillsville.....	Swift & Co., St. Paul, Minn.
Jan. 30	H. C. Koenig, Marshfield .....	Swift & Co., St. Paul, Minn.
Jan. 31	Fountain-Campbell Lumber Co., Donald.	Swift & Co.
Jan. 31	Johnson, Hill & Co., Grand Rapids.	Swift & Co., St. Paul, Minn.
Feb. 4	Benson Mercantile Co., Rice Lake.	Swift & Co., St. Paul, Minn.
Feb. 6	J. B. Smith, Janesville .....	Nelson & Morris Co., Chicago.
Feb. 6	P. Olson, Rhineland .....	
Feb. 7	F. H. Drummond, Cable .....	Swift & Co., St. Paul, Minn.
Feb. 7	A. Biglow, Hayward .....	Armour & Co., St. Paul, Minn.
Feb. 7	Kingsburg & Henshaw, Rhineland.	
Feb. 8	A. R. Halan, Superior .....	Armour & Co., St. Paul, Minn.
Feb. 10	Mrs. F. Bartels, 409 E. Main St., Madison.	Morris & Co., Chicago.
Feb. 11	J. B. Smith, Janesville .....	Morris & Co., Chicago.
Feb. 13	A. C. McDonald, Ashland .....	Armour & Co., Ashland .
Feb. 14	Layman & Jenkins, Mellen ...	Cudahy & Co., Sioux City, Ia.
Feb. 14	C. Carlstrom, Mellen .....	Cudahy & Co., Sioux City, Ia.
Feb. 14	Meredith Bros., Mellen.....	Cudahy & Co., Sioux City, Ia.
Feb. 14	F. A. Mathe, Park Falls .....	Cudahy & Co., Sioux City, Ia.
Feb. 17	W. F. Carle, Janesville .....	Morris & Co., Chicago.
Feb. 21	B. M. Benson & Co., Madison	
Feb. 21	B. M. Benson & Co., Madison	Morris & Co., Chicago.
Feb. 24	O. C. Sabin, Ladysmith .....	Swift & Co., Kansas City, Mo.
Feb. 25	B. M. Benson & Co., Madison	Morris & Co., Chicago.
Mch. 1	Max Wegemann, Lake Mills ..	G. H. Hammond Co., Chicago.

SPICES

See general laws on adulteration and misbranding, pages 8-9.

STANDARDS

"Spices are aromatic vegetable substances used for the seasoning of food and from which no portion of any volatile oil or other flavoring principle has been removed and which are clean, sound, and true to name.

Black pepper is the dried immature berry of *Piper nigrum* L. and contains not less than six (6) per cent of nonvolatile ether extract, not less than twenty-five (25) per cent of starch, not more than seven (7) per cent of total ash, not more than two (2) per cent of ash insoluble in hydrochloric acid, and not more than fifteen (15) per cent of crude fiber. One hundred parts of the non-volatile ether extract contain not less than three and one-quarter (3.25) parts of nitrogen. Ground black pepper is the product made by grinding the entire berry and contains the several parts of the berry in their normal proportions.

Mustard seed is the seed of *Sinapis alba* L. (white mustard), *Brassica nigra* (L.) Koch (black mustard), or *Brassica juncea* (L.) Cosson (black or brown mustard).

Ground mustard is a powder made from mustard seed, with or without the removal of the hulls and a portion of the fixed oil, and contains not more than two and five-tenths (2.5) per cent of starch and not more than eight (8) per cent of total ash.

Prepared mustard, German mustard, French mustard, mustard paste, is a paste composed of a mixture of ground mustard seed or mustard flour with salt, spices and vinegar, and, calculated free from water, fat and salt, contains not more than twenty-four (24) per cent of carbohydrates, calculated as starch, determined according to the official methods, not more than twelve (12) per cent of crude fiber nor less than thirty-five (35) per cent of protein, derived solely from the materials named."

## SPICES PASSED AS LAWFUL.

Date.	Kind.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. May 28 May 28 May 29	Black Pepper Black Pepper Black Pepper	P. E. Ibach, Alma Chas. Schuettie, Alma M. Ruben, Alma			

## ADULTERATED SPICES.

Jan. 14	Mustard	The Arkansas Co-operative Ass'n., Arkansasaw.	Wixon & Co., Chicago.		Labeled "Pure Mustard." Contains considerable wild mustard.
June 5	Pepper	A. J. Nelson, Stoughton	Reld, Henderson & Co., Chicago.	100 per cent Pure	Heavily adulterated with wild mustard and olive pits.

SYRUPS

See special law on maple sugar and maple syrup, page 52; special law on syrup and glucose mixtures, pages 45-46. For standards, see page 46.

MAPLE SYRUP.

Maple Syrup Passed as Lawful.

Date.	Purchased of or submitted by	Manufacturer or Jobber.	Brand.	Remarks.
1907. Dec.	*S. B. Bostwick, Eau Claire...	.....	.....	.....
1908. Apr. 1	*Trainor & Smith, Madison ...	.....	.....	.....
Apr. 8	*J. A. Wilson, Menomonie.....	McNeil & Higgins Co., Chicago	None Such	.....
Apr. 10	*Mrs. E. V. Grunigen, Black Earth.	.....	.....	.....
Apr. 11	*B. Koyer, V. D., Shawano ..	.....	.....	No adulterations found, but sample is slightly burnt.
Apr. 11	*A. L. Fontaine, Grand Rapids	.....	.....	.....
Apr. 18	*J. W. Burnham & Son, Richland Center.	.....	.....	.....
June 5	Louis Krom, Antigo .....	Joannes Bros., Green Bay .....	Martha Washington	.....
June 23	Scholer & Funck, Kenosha....	Robinson & Co., Middlefield, Ohio.	.....	.....
* Submitted.				
Adulterated Maple Syrups				
Feb. 19	E. W. Hawley & Son, Madison	Corbin & Sons Co., Chicago ....	Clear Quill .....	Not a pure maple syrup.



## OTHER SYRUPS.

Date.	Kind.	Submitted by	Remarks.
1908. Jan. 9	Sorghum Syrup .....	F. M. Buzzell, Chippewa Falls .....	Passed.
Feb. 6	Refiner's Syrup .....	D. Dickinson, Nellsville .....	Passed.

## MAPLE SYRUP MIXTURES.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1907. Nov. 18	Sugar Cane Syrup flavored with Maple Syrup.	The Farmers' Produce Co., Chippewa Falls.	The Towle Maple Syrup Co., Minneapolis, Minn.	Beecham's Great Mountain.	Passed.
Dec. 18	Maple and Cane Syrup.	Benson Mercantile Co., Rice Lake.	W. E. & W. G. Jordan, Minneapolis, Minn.	Dakomin .....	Contains less than 25 per cent maple syrup. Not lawfully labeled.
Dec. 29	Pure Syrup. A mixture of Pure Cane and Maple Syrup.	Rivkin Bros., Hayward .....	Stone-Ordean-Wells Co., Duluth.	Wampum .....	Contains less than 25 per cent maple syrup. Not lawfully labeled.
1908. Feb. 18	Canadian Maple Syrup and Cane Syrup.	Geo. Scherneck, Madison .....	Pierre Viau Maple Co., Chicago & Omaha.	P. V. ....	Contains less than 50 per cent maple syrup. Not lawfully labeled.
Feb. 19	Table Syrup made of Maple Sugar and Granulated Sugar.	E. J. Erbe, Atwood Ave., Madison.	Franklin MacVeagh & Co., Chicago.	Charm .....	Contains little or no maple syrup. Not lawfully labeled.
Feb. 19	Vermont Syrup made from Maple and Cane Sugar.	E. W. Hawley & Son, Madison	Corbin, Sons & Co., Chicago.	Defiance .....	Contains less than 25 per cent maple syrup. Not lawfully labeled.
Feb. 21	Maple Syrup and Cane Syrup.	Rowe & Otis, Madison .....	Berry-Maybrun Co., Chicago.	Early Breakfast ...	Contains less than 30 per cent maple syrup. Not lawfully labeled.

MAPLE SYRUP MIXTURES—Continued.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. Feb. 24	Pure Cane and Canadian Maple Syrup.	Findlay & Co., Madison .....	Manierre-Yoe Syrup Co., Chicago.	Old Manse .....	Passed.
Feb. 27	Fancy Quality made from Pure Maple and White Sugar.	H. Blumenfeld, 429 3rd St., Milwaukee, Wis.	New England Maple Syrup Co., Boston, Mass.	Golden Tree .....	Contains little or no maple syrup. Not lawfully labeled.
Mch. 11	Maple and Cane Syrup Sugar Syrup 80 per cent; Maple Syrup 20 per cent.	G. L. Solberg, Blair .....	McNeil & Higgins Co., Chicago.	Empire .....	Contains less than 20 per cent maple syrup. Not lawfully labeled; also misbranded as to percentages of constituents.
Mch. 16	Table Syrup made of Maple Sugar and Granulated Sugar.	Sol Levitan, Madison .....	Franklin Mac Veagh & Co., Chicago.	Charm .....	Contains little or no maple syrup. Not lawfully labeled.
Mch. 16	Maple Syrup and Sugar Syrup.	J. B. Esser, Madison .....	Berry Maybrun Co., Chicago.	Early Breakfast ..	Contains less than 25 per cent maple syrup. Not lawfully labeled.
Mch. 19	Cane and Maple Syrup	C. J. E. Nilsson, Clear Lake ..	St. Paul Syrup Refining Co., St. Paul, Minn.	Colonial .....	Contains less than 10 per cent maple syrup. Not lawfully labeled.
Apr. 1	Maple and Cane Syrup. Contains the following ingredients and none other: Selected Vermont maple sugar and best refined cane sugar.	Meyer & Kelly, Madison .....	Berry-Maybrun Co., Chicago.	Early Breakfast ..	Contains less than 10 per cent maple syrup. Not lawfully labeled.
Apr. 11	Maple and Cane Syrup. Selected Maple and best refiners' Cane Sugar.	E. E. Allen, Spooner .....	.....	.....	Contains less than 25 per cent maple syrup. Not lawfully labeled.
May 5	Maple Flavored Syrup.	Fred E. Hubbard, MacFarland.	Reid, Murdock & Co., Kenwood Preserving Co., Chicago, Ill.	Sugar Grove .....	Contains more than 75 per cent glucose. Not lawfully labeled.

## MAPLE SYRUP MIXTURES—Continued.

Date.	Labeled.	Purchased of	Manufacturer or Jobber.	Brand.	Remarks.
1908. June 5	Table Syrup made from Maple Sugar and Cane Sugar.	Grahn & Jones, Co., Stoughton	Franklin Mac Veagh & Co., Chicago.	Charm .....	Contains little or no maple syrup. Not lawfully labeled.
June 5	Maple and Sugar Syrup	A. J. Nelson, Stoughton .....	John Hoffman Sons' Co., Milwaukee.	Gold Medal .....	Contains less than 25 per cent maple syrup. Not lawfully labeled.
June 5	Syrup made from Pure Maple and White Sugar.	L. Anderson, Stoughton .....	New England Maple Syrup Co., Boston, Mass.	Fancy Quality ....	Contains little or no maple syrup. Not lawfully labeled.
June 5	Pure Canadian Maple Syrup and Cane Syrup	The Department Store, Stoughton.	Pierre Viaus Maple Co., Chicago and Omaha.	P. V. ....	Contains less than 50 per cent maple syrup. Not lawfully labeled.
June 5	Pure Canadian Maple Syrup and Cane Syrup	Grahn & Jones Co., Stoughton	Pierre Viaus Maple Co., Chicago and Omaha.	P. V. ....	Contains less than 50 per cent maple syrup. Not lawfully labeled.
June 5	Fancy Quality Syrup made from Pure Maple and White Sugar.	Rasmussen & Howe, Stoughton	New England Maple Syrup Co., Boston, Mass.	Fancy Quality ....	Contains little or no maple syrup. Not lawfully labeled.
June 6	Pure Maple and White Sugar. Sugar Syrup flavored with Maple Syrup.	E. R. Pahl & Co., 294 Broadway, Milwaukee.	E. R. Pahl & Co., Milwaukee.	Golden Tree .....	Not lawfully labeled.
June 6	Syrup made from Granulated and Maple Sugars.	E. R. Pahl & Co., 294 Broadway, Milwaukee.	E. R. Pahl & Co., Milwaukee.	Golden Tree .....	Not lawfully labeled.
June 22	Maple and Rock Candy Syrup.	Werwie Bros., Kenosha.....	Rizney & Co., Brooklyn, N. Y.	Park .....	Contains less than 25 per cent maple syrup. Not lawfully labeled.

**VINEGARS**

Ch. 370, Laws, 1907. Section 4607i of the statutes is amended to read: Section 4607i. No person shall sell, manufacture for sale, offer or expose for sale or have in his possession with intent to sell as apple, orchard or cider vinegar, any vinegar which has not been made exclusively by the fermentation of pure apple juice, known as apple cider; or vinegar which contains any foreign substance whatsoever; or vinegar which shall contain less than four per centum by weight of absolute acetic acid; or vinegar which shall be found to contain less than one and six-tenths per centum by weight of pure cider vinegar solids upon full evaporation at two hundred and twelve degrees Fahrenheit and no person shall sell, offer or expose for sale or have in his possession with intent to sell any cider vinegar unless each barrel, cask, keg, or other original package or original container, containing the same, be plainly stenciled or branded or labeled, with the words "Cider Vinegar," together with the name and place of business of the manufacturer thereof, and the strength of the vinegar contained in said barrel, cask, keg or other original package or original container, containing the same, which strength shall be denoted by the per centum by weight of absolute acetic acid contained in said vinegar. And no person shall manufacture for sale, offer or expose for sale or have in possession with intent to sell, or sell, any vinegar which shall be adulterated within the meaning of sections 4690 and 4601 of the statutes of 1898, and laws amendatory thereof; or any vinegar which shall contain less than four per centum by weight of absolute acetic acid; or vinegar which shall contain any artificial coloring matter or any preparation of lead, copper, sulphuric or other mineral acids, or any acid made from the distillation of wood or any ingredient injurious to health. And no person shall sell, offer or expose for sale or have in his possession with intent to sell any vinegar (except cider vinegar) made by fermentation without the intervention of distillation unless each barrel, cask, keg, or other original package or original container, containing the same, be plainly stenciled or branded or labeled, with the name and place of business of the manufacturer of said vinegar, and the strength of the vinegar contained in said barrel, cask, keg, or other original package or original container, containing the same, which strength shall be denoted by the per centum by weight of absolute acetic acid contained in said vinegar, together with the words "Fermented Vinegar" and the true name of the fruit or substance from which said vinegar is made. And no person shall sell, offer or expose for sale or have in his possession with intent to sell any vinegar made wholly or in part from distilled liquor unless each barrel, cask, keg, or other original package or original container containing the same, be plainly stenciled or branded or labeled, with the words "Spirit Vinegar," together with the name and place of business of the manufacturer or dealer thereof and the strength of the vinegar contained in said barrel, cask, keg, or other original package or original container, containing the same, which strength shall be denoted by the per centum by weight of absolute acetic acid contained in said vinegar. And no person shall sell, offer or expose for sale or have in his possession with intent to sell, any vinegar unless the stencil, brand or label hereinbefore required shall in the case of barrel, cask or keg be in black letters and figures at least one inch in height on one head of said barrel, cask or keg, and in case of other original package or original container in black letters and figures not smaller than eight-point Brevier caps on the outside of each original package or original container thereof.

Any person who shall be found guilty of violating any of the provisions of this section shall be guilty of a misdemeanor and on conviction shall be punished by fine not less than twenty-five dollars nor more than one hundred dollars or by imprisonment in the county jail not less than ten days nor more than sixty days.

## VINEGARS—Continued.

Date.	Sold for.	Purchased of or submitted by	Remarks.
1908.	Rex Amber Vinegar.	A. R. Maxwell, 433 Main St., Oshkosh.	Not lawfully stenciled.
May 25	Cider Vinegar.	*J. H. Bast, Browntown..	Sp. Gr. (15° C), 1.003; total acidity (calculated as acetic acid), 1.4 per cent; total solids, 2.7 per cent; alcohol, 5.3 per cent; original total solids, 15.4 per cent; Incomplete acetic fermentation, hence deficient in acetic acid. Not lawful.
May 30	Cider Vinegar.	*J. H. Bast, Browntown..	Sp. Gr. (15° C), 1.0022; total acidity (calculated as acetic acid) 1.1 per cent; total solids, 1.0 per cent; alcohol, 1.65 per cent; original total solids, 5.25 per cent. Heavily watered. Not lawful.

\* Submitted.

REPORTS OF CHEESE FACTORY AND  
CREAMERY INSPECTIONS.

## CHEESE FACTORY INSPECTION.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
Barron Co.				
1908. June 20	Fairdale .....	Chetek, R. 2 .....	Yes .....	No .....
Brown Co.				
Jan. 14	Pittsfield Ch. Ass'n.	Green Bay, R. 8 .....	Yes .....	Yes .....
Buffalo Co.				
Apr. 11	Rose Valley .....	Cochrane .....	No .....	Yes .....
Apr. 25	C. D. Loomis .....	Gilmanton .....	Yes .....	No .....
June 9	Iron Creek .....	Alma, R. No. 2 .....	No .....	No .....
June 9	Trout Creek .....	Alma, R. No. 2 .....	No .....	No .....
June 10	Winger Creek .....	Tell .....	Yes .....	No .....
June 10	Mill Creek .....	Alma, R. 2 .....	No .....	No .....
June 11	Island .....	Tell .....	Yes .....	No .....
June 11	Pine Creek Ch. Co.	Tell, R. 1 .....	Yes .....	Yes .....
Chippewa Co.				
Apr. 17	Anson .....	Chippewa Falls, R. 5 .....	Yes .....	No .....
June 2	North Star .....	Boyd .....	Yes .....	No .....
June 2	Deer Brook .....	Stanley, R. 1 .....	Yes .....	No .....
June 2	Stanley .....	Stanley, R. 1 .....	Yes .....	No .....
June 5	Delmer .....	Boyd, R. 1 .....	Yes .....	No .....
June 5	Pine Grove .....	Stanley, R. 1 .....	Yes .....	No .....
June 6	Drywood .....	Cadott, R. 2 .....	Yes .....	No .....
June 6	Dietrichs .....	Cadott .....	Yes .....	No .....
June 17	Anson .....	Chippewa Falls, R. 5 .....	Yes .....	No .....
Clark Co.				
Apr. 29	Steinwand .....	Colby .....	Yes .....	No .....
May 7	Green Grove .....	Colby .....	Yes .....	No .....
May 7	Mandel .....	Colby .....	Yes .....	No .....
May 7	Welch .....	Unity .....	Yes .....	No .....
May 8	The Curtiss Dairy Co.	Curtiss .....	Yes .....	No .....
May 9	The Curtiss Dairy Co.	Curtiss .....	Yes .....	No .....
June 3	Clover Leaf .....	Stanley, R. 2 .....	Yes .....	No .....
June 3	Reeseburg .....	Thorpe, R. 1 .....	Yes .....	No .....
June 4	Roger Creek .....	Stanley .....	Yes .....	No .....
Dane Co.				
Apr. 16	Sunnyside .....	Hollandale .....	No .....	No .....
May 1	Fritz .....	Belleville .....	No .....	No .....
May 2	Wild .....	Belleville .....	No .....	No .....
May 13	Kelley Hill .....	Mt. Vernon .....	No .....	No .....
May 14	Riverside .....	Verona .....	No .....	No .....
Dodge Co.				
Apr. 14	Cherry Hill .....	Rubicon, R. 1 .....	No .....	No .....
Apr. 15	Saylesville .....	Rubicon, R. 1 .....	No .....	No .....
Apr. 17	Oak .....	Hartford .....	No .....	No .....
Apr. 28	Rubicon River .....	Woodland, R. D. .....	No .....	No .....
Apr. 28	Home .....	Hustisford .....	No .....	No .....
Apr. 28	Ryder .....	Hustisford .....	Yes .....	Yes .....
Apr. 28	Bramer .....	Hustisford .....	No .....	No .....
May 2	Mapleton .....	Oconomowoc, R. D. 25 .....	No .....	No .....
May 9	Shaw Creek .....	Beaver Dam .....	No .....	No .....
May 11	Sunnyside .....	Burnett Jct., R. D. .....	No .....	No .....
May 11	Woodland .....	Woodland .....	No .....	No .....
May 27	Five Corners .....	Theresa .....	Yes .....	No .....
June 19	Melcher .....	Juneau .....	No .....	No .....
June 19	Town Line .....	Juneau .....	No .....	No .....
June 19	Horicon .....	Juneau, R. No. 4 .....	No .....	No .....
June 19	Horicon .....	Horicon .....	No .....	No .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
.....	Not clean....	Passable ....	Passable ....	.....	.....
Good .....	Good .....	Good .....	Good .....	Mostly good.	Some sedim't
Passable ....	Passable ....	Good .....	Clean .....	Part poor....	Good .....
Excellent ...	Good .....	Clean .....	Clean .....	Mostly clean	Good .....
Passable ....	Not clean....	Not good ...	Clean .....	Not all clean	Mostly good.
Defective ...	Clean .....	Damp .....	Clean .....	Not all good	Clean .....
Passable ....	Passable ....	Good .....	Clean .....	Not all good	Good .....
Effective ...	Clean .....	Passable ....	Passable ....	Not all good	Good .....
Defective ...	Passable ....	Good .....	Clean .....	Not all good	Not all good
Passable ....	Passable ....	Passable ....	Clean .....	Not all good	Good .....
None .....	Passable ....	Good .....	Some uncl'n.	.....	.....
Bad .....	Passable ....	Passable ....	Good .....	.....	.....
Bad .....	Passable ....	Passable ....	Not clean....	.....	.....
Ineffective ..	Good .....	Good .....	Passable ....	Part unfit ..	Part unclean
Bad .....	Passable ....	Passable ....	Good .....	.....	.....
Passable ....	Good .....	Passable ....	Part rusty ..	Part unclean	.....
Ineffective ..	Passable ....	Poor floor ..	Passable ....	.....	.....
Effective ...	Passable ....	Passable ....	Good .....	Some unfit ..	Part unclean
.....	Passable ....	Passable ....	Passable ....	.....	.....
Effective ....	Not clean....	Good .....	Good .....	Good .....	Passable ....
Passable ....	Not clean....	Good .....	Passable ....	.....	.....
Effective ...	Not clean....	Good .....	Good .....	.....	.....
Defective ...	Passable ....	Passable ....	Not all clean	.....	.....
None .....	Passable ....	Passable ....	Part rusty..	Passable ....	Passable ....
Effective ....	Good .....	Good .....	Not all clean	Part rusty..	Some uncl'n.
Ineffective ..	Passable ....	Good .....	Passable ....	Part rusty..	Some uncl'n.
Ineffective ..	Not clean....	Passable ....	Passable ....	.....	.....
.....	Not clean....	Good .....	Good .....	Good .....	Some uncl'n.
Defective ...	Passable ....	Passable ....	Good .....	.....	.....
Passable ....	Passable ....	Passable ....	Clean .....	Mostly clean	Mostly clean
Passable ....	Passable ....	Passable ....	Clean .....	Mostly clean	Mostly clean
Passable ....	Barrels, cl.	Good .....	Clean .....	Mostly clean	Mostly clean
Passable ....	Not clean....	Good .....	Clean .....	Mostly clean	Not all clean
Good .....	Good .....	Passable ....	Good .....	Mostly good.	Mostly good.
Defective ...	Clean .....	Good .....	Good .....	Mostly good.	Mostly good.
Good .....	Good .....	Good .....	Good .....	Mostly good.	Part poor....
Good .....	Good .....	Good .....	Good .....	Good .....	One can un'n
Good .....	Clean .....	Good .....	Good .....	.....	.....
Good .....	Passable ....	Clean .....	Passable ....	.....	.....
Good .....	Clean .....	Good .....	Good .....	.....	.....
Good .....	Good .....	Good .....	Good .....	Not all clean	Not all clean
Good .....	Good .....	Good .....	Good .....	Good .....	Good .....
Passable ....	Good .....	Good .....	Good .....	Mostly good.	Mostly clean
Passable ....	Not clean....	Passable ....	Good .....	Mostly good.	Mostly clean
Good .....	Good .....	Good .....	Good .....	Some unfit..	Mostly good
Good .....	Clean .....	Good .....	Good .....	Mostly good.	Mostly good
None .....	.....	Passable ....	Good .....	Mostly good.	Not all str'd.
Good .....	Clean .....	Good .....	Good .....	Good .....	Good .....



## CHEESE FACTORY INSPECTION—Continued.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
1908.				
Dunn Co.				
May 20	Tramway .....	Boyceville .....	Yes .....	No .....
May 20	Annis Creek .....	Boyceville .....	Yes .....	No .....
May 22	Big Beaver .....	Wheeler .....	Yes .....	No .....
Fond du Lac Co.				
May 15	Hillside .....	Campbellsport .....	Yes .....	Yes .....
May 15	Jaeger .....	Campbellsport .....	Yes .....	No .....
May 16	Waucousta .....	Campbellsport .....	Yes .....	No .....
May 16	McSchooler .....	Campbellsport .....	Yes .....	No .....
May 16	Woodside .....	Eden .....	Yes .....	No .....
May 16	Eureka .....	Eden .....	Yes .....	No .....
May 22	.....	Campbellsport .....	Yes .....	No .....
May 23	.....	Calvary .....	No .....	No .....
May 23	.....	Calvary .....	Yes .....	No .....
June 4	Eichel .....	Calvary .....	Yes .....	No .....
June 4	Weinreis .....	Peebles .....	Yes .....	No .....
June 5	Empire .....	Peebles .....	Yes .....	No .....
June 5	Winnebago Ch. Co.	Fond du Lac, R. 7 .....	Yes .....	No .....
June 5	.....	Fond du Lac, R. 8 .....	Yes .....	No .....
June 5	Spring Hill .....	Fond du Lac, R. 7 .....	Yes .....	No .....
June 5	Eggersville .....	Fond du Lac, R. 8 .....	Yes .....	No .....
June 5	Forest .....	Fond du Lac, R. 8 .....	Yes .....	No .....
June 5	Dotyville .....	Eden .....	Yes .....	No .....
June 6	Elmwood .....	Eden .....	Yes .....	No .....
June 6	Stratz .....	Fond du Lac, R. 2 .....	Yes .....	No .....
June 6	Rosendale Ass'n.	Fond du Lac, R. 3 .....	Yes .....	No .....
July 15	Loyd .....	Fond du Lac .....	Yes .....	No .....
July 15	Mammoth Spring	Fond du Lac, R. 6 .....	Yes .....	No .....
July 15	Fairview .....	Eden .....	Yes .....	No .....
July 17	Spring Valley ...	Fond du Lac .....	Yes .....	No .....
July 18	Spring Valley ...	Brandon, R. 21 .....	No .....	Yes .....
July 17	Spring Valley ...	Cleveland, R. 2 .....	Yes .....	No .....
July 17	Star Valley .....	Fond du Lac, R. 3 .....	Yes .....	No .....
Grant Co.				
June 26	Muscoda .....	Muscoda .....	Yes .....	Yes .....
June 26	Oak Grove .....	Muscoda .....	Yes .....	Yes .....
June 26	Badger Mills .....	Muscoda .....	Yes .....	Yes .....
June 26	Rocky Point .....	Highland, R. 2 .....	Yes .....	Yes .....
June 26	Walnut Grove ...	Muscoda, R. 2 .....	Yes .....	Yes .....
Green Co.				
Apr. 11	White .....	Monroe, R. 9 .....	No .....	No .....
Apr. 26	Silver .....	Monticello .....	No .....	No .....
Apr. 21	Johnson .....	Woodford, R. 2 .....	No .....	No .....
Apr. 21	Gutzmer .....	Woodford, R. 2 .....	No .....	No .....
Apr. 25	Lawver .....	Browntown .....	No .....	No .....
Apr. 27	Kleckner .....	Monroe .....	No .....	No .....
Apr. 28	Burkhalter & Waelti.	Monroe .....	No .....	No .....
May 4	West .....	Monroe .....	No .....	No .....
May 5	Davis .....	Monroe .....	No .....	No .....
May 11	E. Clarno .....	Clarno, R. D. ....	No .....	No .....
May 19	Kraus .....	Clarno, R. D. ....	No .....	No .....
May 21	Elmer .....	Monroe, R. D. ....	No .....	No .....
May 22	Divan .....	Browntown .....	No .....	No .....
May 22	Trumpy .....	Browntown .....	No .....	No .....
May 27	Haman .....	Clarno .....	No .....	No .....
May 27	Walnut Grove ...	Monroe .....	No .....	No .....
June 1	Jenney .....	Blanchardville .....	No .....	No .....
June 1	Sylvester .....	Monroe .....	No .....	No .....
June 1	Coldren .....	Monroe, R. 2 .....	No .....	No .....
June 4	Pengra .....	Brodhead .....	No .....	No .....
June 4	Decatur .....	Monroe, R. 2 .....	No .....	No .....
June 5	Marty .....	Brodhead .....	No .....	No .....
June 5	Marty .....	Brodhead .....	No .....	No .....
June 6	Giese .....	Juda, R. D. ....	No .....	No .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
Effective ...	Defective ...	Passable ...	Good .....	Mostly clean	Passable ...
Ineffective ...	Passable ...	Passable ...	Good .....	.....	.....
Effective ...	Bad .....	Passable ...	Good .....	Some unfit ..	Much unfit...
Effective ...	Clean .....	Good .....	Good .....	.....	.....
Defective ...	Not clean...	Good .....	Clean .....	.....	.....
Defective ...	Not clean...	Good .....	Clean .....	.....	.....
Bad .....	Passable ...	Not all clean	Clean .....	Not all clean	Passable ...
Faulty .....	Passable ...	Passable ...	Not all clean	.....	.....
Bad .....	Unclean ...	Not clean...	Not all clean	.....	.....
None .....	Passable ...	Clean .....	Clean .....	.....	.....
None .....	Good .....	Clean .....	Clean .....	.....	.....
None .....	Not clean...	Passable ...	Not all clean	.....	.....
Defective ...	Passable ...	Poor floor ..	Clean .....	.....	.....
Defective ...	Passable ...	Not clean...	Not all clean	.....	.....
None .....	Bad .....	Floor uncl'n.	Not all clean	.....	.....
None .....	Passable ...	Floor uncl'n.	Not all clean	.....	.....
None .....	Not clean...	Not clean...	Not all clean	.....	.....
Effective ...	Passable ...	Passable ...	Clean .....	.....	.....
None .....	Not clean...	Good .....	Not all clean	.....	.....
Defective ...	.....	Poor floor ..	Not all clean	.....	.....
Defective ...	Passable ...	Passable ...	Clean .....	.....	.....
Defective ...	Bad .....	Not clean...	Unclean ...	.....	.....
None .....	Good .....	Passable ...	Clean .....	.....	.....
None .....	Not clean...	Uncl'n floors	Clean .....	.....	.....
Faulty .....	.....	Passable ...	Clean .....	.....	.....
None .....	Not clean...	Floor uncl'n.	Not all clean	.....	.....
.....	Not clean...	Floor uncl'n.	Not all clean	.....	.....
None .....	Good .....	Passable ...	Clean .....	.....	.....
Faulty .....	Clean .....	Passable ...	Clean .....	.....	.....
Passable ...	Clean .....	Good .....	Clean .....	Good .....	Good .....
Fairly good.	Clean .....	Good .....	Passable ...	Passable ..	Mostly good
Passable ...	Clean .....	Good .....	Good .....	Good .....	Mostly good.
Good .....	Clean .....	Good .....	Good .....	Mostly good	Mostly good.
Good .....	.....	Good .....	Good .....	Mostly good.	Mostly good.
Defective ...	Bls. on pl'm.	Poor floor ..	Passable ...	(Factory not	In operation.)
Passable ...	Bls. on pl'm.	Poor repair..	.....	(Factory not	In operation.)
Passable ...	Bls. on pl'm.	Good .....	.....	(Factory not	In operation.)
Passable ...	Bls. on pl'm.	Good .....	Good .....	Good .....	Good .....
Passable ...	Passable ...	Passable ...	Good .....	Good .....	Good .....
Passable ...	Passable ...	Clean .....	Good .....	Good .....	Some n't st'd
Passable ...	Good .....	Good .....	Good .....	Good .....	Mostly clean
Passable ...	Barrels, cl...	Passable ...	Good .....	Clean .....	Some n't st'd.
Passable ...	Passable ...	Good .....	Good .....	Mostly clean	Mostly clean
Passable ...	Good .....	Good .....	Good .....	Good .....	Good .....
Passable ...	Good .....	Good .....	Good .....	Mostly clean	Mostly good.
Passable ...	Good .....	Clean .....	Part unclean	Good .....	Good .....
Passable ...	Clean .....	Good .....	Good .....	Mostly clean	Not strained.
Passable ...	Clean .....	Good .....	Good .....	Mostly clean	Not all str'd.
Defective ...	Not clean...	Passable ...	Good .....	Mostly clean	Not strained.
Passable ...	Barr'ls not cl	Good .....	Good .....	Mostly clean	Not strained.
Passable ...	Barr'ls not cl	Poor floor ..	Good .....	Not all clean	Not all clean
Defective ...	Good .....	Good .....	Good .....	Not all clean	Not all clean
Defective ...	Passable ...	Passable ...	Good .....	Not all good	Not strained.
Passable ...	Good .....	Not good ...	Not all clean	Not all good	Not strained.
Passable ...	Good .....	Passable ...	Good .....	Not all good	Not all good
Passable ...	Good .....	Good .....	Passable ...	Not all good	Not all good
Passable ...	Barr'ls not cl	Not good ...	Not clean ...	Not all good	Not all good

## CHEESE FACTORY INSPECTION—Continued.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
Green Co.—Con.				
1908.				
June 10	F. Blum .....	Monticello .....	No .....	No .....
June 11	Ball's Mill .....	Monroe, R. 2 .....	No .....	No .....
June 18	Dill .....	Ramona .....	No .....	No .....
June 23	Whitehead .....	Monroe, R. 1 .....	No .....	No .....
June 24	Beckman .....	Clarno, R. 1 .....	No .....	No .....
June 26	Franklyn .....	Monroe .....	No .....	No .....
June 27	Bayrhofer .....	Monroe .....	No .....	No .....
Iowa Co.				
Apr. 16	Schindler .....	Hollandale .....	No .....	No .....
Apr. 17	North Hill .....	Hollandale .....	No .....	No .....
Apr. 22	Sandy Rock .....	Hollandale, R. F. D. ....	.....	.....
Apr. 22	Middlebury .....	Barneveld, R. 1 .....	.....	.....
Apr. 22	Long Valley .....	Hollandale .....	.....	.....
May 16	Union Ridge .....	Dodgeville, R. 2 .....	Yes .....	Yes .....
May 16	Five Point .....	Dodgeville, R. 2 .....	Yes .....	Yes .....
May 23	Mineral Point .....	Mineral Point .....	Yes .....	Yes .....
May 23	Oak Park .....	Mineral Point .....	No .....	No .....
May 28	McKennie .....	Hollandale .....	No .....	No .....
May 29	Moscow .....	Blanchardville .....	No .....	No .....
June 19	Moscow .....	Blanchardville .....	No .....	No .....
June 19	Clary .....	Blanchardville .....	No .....	No .....
June 27	Pulaski .....	Avoca .....	Yes .....	Yes .....
June 27	Trout Branch .....	Avoca .....	Yes .....	No .....
June 29	Prairie .....	Muscoda, R. 2 .....	Yes .....	No .....
Kewaunee Co.				
Mch. 22	Carlton .....	Kewaunee, R. 1 .....	Yes .....	Yes .....
La Crosse Co.				
May 26	St. Jos. Ridge .....	Bangor, R. 2 .....	Yes .....	Yes .....
June 4	Greenfield .....	La Crosse .....	Yes .....	No .....
Lafayette Co.				
Apr. 14	Brenum .....	Gratiot .....	No .....	No .....
Apr. 15	River Bend .....	Argyle .....	.....	.....
Apr. 17	Blanchardville .....	Blanchardville .....	Yes .....	Yes .....
Apr. 24	Flint & Vinzer .....	Argyle .....	No .....	No .....
May 5	C. Hirschbruner .....	Darlington .....	No .....	No .....
May 6	Barlow .....	Darlington .....	No .....	No .....
May 7	Dublin .....	Darlington .....	No .....	No .....
May 8	P. Legler Cheese Co. ....	Argyle .....	No .....	No .....
June 13	Blanchardville .....	Blanchardville .....	.....	.....
June 16	Calamine .....	Calamine .....	.....	Yes .....
June 16	C. Hirschbruner .....	Darlington .....	No .....	No .....
June 16	McDonald .....	Darlington .....	No .....	No .....
June 20	Engwell .....	Blanchardville .....	No .....	No .....
Manitowoc Co.				
June 18	Lutze .....	Cleveland .....	Yes .....	No .....
June 18	Klessig .....	Cleveland, R. 3 .....	Yes .....	.....
June 18	Osman .....	Cleveland, R. 3 .....	Yes .....	No .....
Marathon Co.				
Mch. 2	Tesch .....	Nauvart .....	No .....	No .....
Apr. 2	Storm .....	Merrill .....	Yes .....	No .....
Apr. 24	Hillside .....	Marathon City .....	Yes .....	No .....
Apr. 27	Spencer .....	Spencer .....	Yes .....	No .....
May 28	Corinth .....	Corinth .....	Yes .....	No .....
May 28	Forest Home .....	Athens .....	Yes .....	No .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
Defective	Barr'ls not cl	Poor	Not all clean		
Good	Good	Good	Good	Not all good	Not all st'd..
Good	Good	Good	Good	Not all good	Mostly clean
Passable	Passably cl'n	Good	Good	Many unfit..	Some unstr'd
Passable	Bls. not all cl	Clean	Good	Many unfit..	Some unstr'd
Passable	Bls. not all cl	Passable	Good	Some unfit..	Some unstr'd
Passable	Good	Clean	Good	Some unfit..	Some unstr'd
Passable	On platform.	Passable		(Factory not	in operation.)
Passable	P'r location..	Passable		(Factory not	in operation.)
Passable	Passable	Passable		(Factory not	in operation.)
Passable	Good	Good	Good	(Factory not	in operation.)
Passable	Good	Passable		(Factory not	in operation.)
None		Clean, new.	Clean		
Passable	Good	Good	Good	Good	Good
Good	Good	Good	Good	Good	Good
Passable	Good	Passable	Passable		
Passable	Barr'ls not cl	Passable	Good	Not all clean	Not all clean
Passable	Bls. not cl.	Passable	Not clean..	Not all clean	Not all clean
Passable	Bls. not cl.	Not clean..	Passable	Some unfit..	Not all clean
Passable	Bbls. not cl.	Clean	Good	Some unfit..	Not all clean
Passable	Clean	Passable	Good	Mostly good.	Mostly good.
Good	Clean	Good	Good	Mostly good	Mostly good.
Good		Passable	Good	Good	Good
Good	Passable	Good	Good	Good	Good
None	Clean	Passable	Clean	Part rusty..	Passable
Passable	Clean	Good	Clean	Part rusty..	Good
Defective		Passable	Passable	(Factory not	in operation.)
Surface.....	Bls. on pl'm.	Passable		(Factory not	in operation.)
Passable	Clean	Good	Good	Good	Good
Passable	Good	Good	Good	Good	Some sour..
Defective	Not good..	Not good..	Good		
Defective	Not clean..	Passable	Passable	Not all clean	Not all clean
Defective	Passable	Passable	Passable	Not all clean	Not all clean
Passable	Not good..	Good	Good	Not all clean	Mostly clean
Passable	Good	Clean	Clean	Not all clean	Not all clean
Passable	Good	Good	Good	Not all good.	Not all clean
Defective	Good	Faulty	Passable		
Passable	Not clean..	Good	Good	Good	Good
Good	Clean	Good	Good	Not all good.	Not all clean
Faulty	Passable	Poor	Passable		
Defective	Good	Good	Passable		
None	Passable	Not clean..	Part unclean		
None	Passable	Passable	Not all clean		
None	Unclean	Good	Passable		
None	Unclean	Poor floor ..	Unclean	(Factory not	in operation.)
None	Not clean..	Good	Passable	Part poor..	Passable
None	Unclean	Passable	Some rusty..		
None	Unclean	Clean	Not all clean		

## CHEESE FACTORY INSPECTION—Continued.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
1908.				
Monroe Co.				
June 27	Bohan .....	Norwalk, R. 1 .....	No .....	No .....
Outagamie Co.				
Apr. 29	Black Creek Ch & B. Co.	Black Creek .....	.....	No .....
May 4	Miller .....	Hortonville, R. 20 .....	Yes .....	No .....
May 18	Welcome .....	Welcome .....	Yes .....	Yes .....
May 19	Twelve Corners ..	Black Creek, R. 33 .....	Yes .....	Yes .....
May 22	Seymour Valley ..	Seymour .....	Yes .....	Yes .....
May 23	West Hortonia ..	Hortonville, R. 20 .....	Yes .....	Yes .....
May 28	School Section ..	Appleton, R. 3 .....	Yes .....	Yes .....
May 29	Elm Grove .....	Appleton, R. 3 .....	Yes .....	Yes .....
June 1	Rickman .....	Dale, R. 18 .....	Yes .....	No .....
June 2	Northeast Maple ..	Sugarbush, R. 26 .....	No .....	No .....
June 3	Cloverdale .....	Dale, R. 18 .....	Yes .....	Yes .....
June 5	Paul Peters .....	New London .....	No .....	No .....
June 6	B. Nelson, No. 2 ..	Dale .....	Yes .....	Yes .....
June 11	Liberty Corners ..	New London, R. 5 .....	Yes .....	Yes .....
June 21	Greenville .....	Greenville .....	Yes .....	Yes .....
June 25	Hortonia .....	Hortonville .....	Yes .....	Yes .....
June 22	Mackville .....	Appleton, R. 4 .....	Yes .....	Yes .....
June 22	Center Valley ..	Appleton, R. 3 .....	Yes .....	No .....
June 27	Walsh .....	Kaukauna, R. 13 .....	Yes .....	No .....
June 27	Farrel .....	Kaukauna, R. 13 .....	Yes .....	No .....
June 27	Oak Grove .....	Kaukauna .....	Yes .....	No .....
June 30	Riverside .....	Shiocton .....	Yes .....	No .....
Ozaukee Co.				
Apr. 29	Green Bay Road..	Port Washington .....	Yes .....	No .....
Apr. 29	Knellsville .....	Port Washington .....	Yes .....	Yes .....
Apr. 30	Lake Church .....	Belgium .....	Yes .....	No .....
Apr. 30	Pioneer .....	Port Washington .....	Yes .....	Yes .....
May 21	Marx .....	Belgium .....	Yes .....	Yes .....
May 21	Schils .....	Cedar Grove, R. 15 ..	Yes .....	Yes .....
May 21	Holy Cross .....	Fredonia .....	Yes .....	Yes .....
May 21	Spring Brook ..	Belgium .....	Yes .....	Yes .....
May 21	Witt .....	Belgium .....	Yes .....	No .....
May 21	Spies .....	Fredonia .....	Yes .....	No .....
May 21	Belgium .....	Belgium .....	Yes .....	No .....
May 21	Possely .....	Belgium .....	Yes .....	No .....
May 30	Marx .....	Belgium .....	No .....	Yes .....
June 2	Holy Cross .....	Fredonia, R. 1 .....	Yes .....	No .....
June 3	Posley .....	Fredonia, R. 1 .....	No .....	No .....
June 4	Wellenstein .....	Port Washington .....	Yes .....	No .....
June 5	Knellsville .....	Port Washington .....	Yes .....	No .....
June 5	Pauley .....	Port Washington .....	No .....	No .....
June 5	Lake Church .....	Belgium, R. 1 .....	No .....	No .....
June 6	Belgium .....	Belgium .....	Yes .....	No .....
June 6	Port Washington.	Port Washington .....	No .....	No .....
June 6	Muehlberg .....	Fredonia .....	Yes .....	Yes .....
June 6	Norwegian .....	Port Washington .....	Yes .....	No .....
June 6	Bruckner & Pauly	Fredonia .....	Yes .....	No .....
June 6	Wabkee .....	Fredonia .....	Yes .....	No .....
June 6	Hubbard .....	Fredonia .....	Yes .....	No .....
June 6	Riverside .....	Saukville .....	Yes .....	No .....
June 23	Schils .....	Cedar Grove .....	Yes .....	Yes .....
Richland Co.				
Feb. 29	Ithaca .....	Ithaca .....	Yes .....	Yes .....
Feb. 29	Neptune .....	Neptune .....	Yes .....	Yes .....
Feb. 29	Butternut .....	Loyd .....	Yes .....	Yes .....
Feb. 29	Loyd .....	Loyd .....	(Factory not .....	In operation.)
Feb. 23	Hub City .....	Hub City .....	Yes .....	Yes .....
Feb. 23	Rockbridge .....	Rockbridge .....	Yes .....	Yes .....
Feb. 23	Buck Creek .....	Richland Center .....	Yes .....	Yes .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
Bad .....	Passable ...	Passable ...	Clean .....	Part unclean	Good .....
Good .....	Not clean...	Not clean...	Not clean ...	Mostly good.	Mostly good.
Passable ...	Clean .....	Very poor ..	Clean .....	Good .....	Good .....
Not good ...	Not clean...	Good .....	Clean .....	Not all good.	Not all clean
Good .....	Clean .....	Good .....	Clean .....	Not all good.	Some sedim't
Good .....	Clean .....	Good .....	Clean .....	Not all good.	Not all clean
Good .....	Clean .....	Good .....	Clean .....	Good .....	Not all clean
Bad .....	Clean .....	Good .....	Clean .....	Clean .....	Not all clean
Passable ...	Clean .....	Fairly good.	Clean .....	Clean .....	Clean .....
None .....	.....	Clean .....	Clean .....	Good .....	Not all clean
Passable ...	.....	Good .....	Good .....	Not all good.	.....
Ineffective	.....	Not clean...	Not all clean	Some faulty	Some sedim't
Ineffective	.....	Good .....	Good .....	Not all good.	Some sedim't
Ineffective	Not clean...	Not clean...	Faulty .....	Part rusty..	Part unclean
Ineffective	Clean .....	Good .....	Good .....	Not all good.	Some sedim't
Good .....	Not clean...	Good .....	Not clean...	Not all good.	Some sedim't
Good .....	.....	Good .....	Clean .....	Not all good.	Some sedim't
Effective	Not clean...	Good .....	Not all clean	.....	.....
Faulty .....	Not clean...	Passable .....	Not clean...	.....	.....
Defective	Bad .....	Good .....	Clean .....	.....	.....
Defective	Passable .....	Good .....	Passable .....	.....	.....
Faulty .....	Passable .....	Passable .....	Not all clean	.....	.....
.....	Not clean...	Not clean...	Not all clean	Good .....	Some sedim't
Defective ...	Not clean...	Floor uncl'n.	Not clean...	.....	.....
Defective ...	Passable .....	Not clean...	Not clean...	.....	.....
Defective ...	Foul .....	Floor uncl'n.	Not clean...	.....	.....
Defective ...	Clean .....	Good .....	Good .....	Good .....	P't not good
None .....	Passable .....	Passable .....	Fairly clean.	.....	.....
None .....	Not clean...	Passable .....	Clean .....	.....	.....
None .....	Passable .....	Good .....	Clean .....	.....	.....
Effective ...	Not clean...	Good .....	Clean .....	.....	.....
None .....	Clean .....	Good .....	Clean .....	.....	.....
Defective	Not clean...	Not clean...	Not all clean	.....	.....
None .....	Passable .....	Good .....	Clean .....	.....	.....
None .....	Not clean...	Floor uncl'n.	Part unclean	.....	.....
None .....	.....	Passable .....	Part unclean	Some faulty.	Part unclean
Good .....	Passable .....	Good .....	Good .....	Good .....	Good .....
Good .....	Not clean...	Good .....	Good .....	Good .....	Good .....
Good .....	Clean .....	Good .....	Good .....	Mostly good.	Clean .....
Unsanitary	Very unclean	Very unclean	Unclean .....	.....	.....
Passable ...	Clean .....	Not clean...	Not clean...	.....	.....
Good .....	Passable .....	Passable .....	Passable .....	.....	.....
Not clean...	Not clean...	Clean .....	Good .....	.....	.....
Good .....	Clean .....	Good .....	Good .....	Good .....	Good .....
Good .....	Passable .....	Good .....	Good .....	Good .....	Good .....
Good .....	Not clean...	Good .....	Good .....	Good .....	Good .....
Bad .....	Not clean...	Not all clean	Passable .....	.....	.....
Good .....	Clean .....	Good .....	Good .....	.....	.....
Bad .....	Not clean...	Passable .....	Good .....	.....	.....
Clean .....	Not clean...	Passable .....	Good .....	.....	.....
None .....	Not clean...	Passable .....	Not clean...	.....	.....
Good .....	Good .....	Good .....	Good .....	.....	.....
Passable ...	Good .....	Good .....	Good .....	.....	.....
Passable ...	Good .....	Good .....	Good .....	Mostly good.	.....
Good .....	Good .....	Good .....	Good .....	.....	.....
Good .....	Clean .....	Good .....	Good .....	.....	.....
Good .....	Clean .....	Passable .....	Good .....	.....	.....

## CHEESE FACTORY INSPECTION—Continued.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
Richland Co.—Con.				
1908.				
Feb. 23	Dosch .....	Richland Center .....	Yes .....	Yes .....
Feb. 23	Shirk's Corners ..	Lone Rock .....	Yes .....	Yes .....
Feb. 28	Gotham .....	Gotham .....	Yes .....	Yes .....
Feb. 28	Twin Bluffs .....	Twin Bluffs .....	Yes .....	Yes .....
May 19	Fox Hollow .....	Richland Center .....	Yes .....	Yes .....
May 19	Boaz .....	Boaz .....	Yes .....	Yes .....
May 19	East Branch .....	Richland Center, R. 4 ..	Yes .....	Yes .....
May 20	Pleasant Hill .....	Richland Center, R. 2 ..	Yes .....	Yes .....
May 20	Eagle .....	Muscoda, R. 1 .....	Yes .....	No .....
May 20	Basswood .....	Muscoda, R. 1 .....	Yes .....	Yes .....
May 20	Basswood Union ..	Basswood .....	No .....	Yes .....
May 22	West Willow .....	Richland Center .....	No .....	Yes .....
May 22	Pleasant Ridge ..	Richland Center .....	Yes .....	Yes .....
May 22	Upper Little Wil- low.	Richland Center, R. 3 ..	Yes .....	Yes .....
May 22	Butternut .....	Loyd .....	Yes .....	Yes .....
May 22	Ithaca Cry. & Ch. Fac.	Ithaca .....	Yes .....	Yes .....
May 23	Neptune .....	Neptune .....	Yes .....	Yes .....
May 26	Brush Creek .....	Richland Center .....	(To start	operating
May 26	Sabin .....	Sabin .....	Yes .....	No .....
May 26	Union C. & B. Co	Boaz .....	Yes .....	Yes .....
May 29	Fancy Creek .....	Richland Center .....	Yes .....	Yes .....
May 29	Peckham .....	Richland Center, R. 1 ..	Yes .....	Yes .....
June 19	Middle Ash Creek ..	Muscoda .....	Yes .....	Yes .....
June 20	Upper Ash Creek ..	Richland Center .....	Yes .....	Yes .....
June 22	Durnford .....	Richland Center, R. 3 ..	Yes .....	Yes .....
June 23	Dosch .....	Richland Center .....	Yes .....	Yes .....
June 23	Richland .....	Richland Center .....	Yes .....	Yes .....
June 24	Buck Creek .....	Richland Center .....	Yes .....	Yes .....
June 25	Ash Creek .....	Rockbridge .....	Yes .....	Yes .....
June 25	Oakridge .....	Richland Center, R. 2 ..	Yes .....	Yes .....
June 25	Indian Creek .....	Muscoda, R. 3 .....	Yes .....	No .....
June 27	Fountain Hill .....	Muscoda .....	Yes .....	No .....
June 27	Fountain Hill .....	Lone Rock .....	Yes .....	No .....
June 30	Hub City .....	Hub City .....	Yes .....	Yes .....
Rock Co.				
May 20	Dickey .....	Orfordville, R. F. D....	No .....	No .....
St. Croix Co.				
May 16	Banner .....	New Richmond, R. 6 .....	Yes .....	No .....
June 24	No. 1 .....	Somerset .....	Yes .....	No .....
June 24	No. 3 .....	Somerset .....	Yes .....	No .....
June 24	No. 4 .....	Somerset .....	Yes .....	No .....
June 24	Sand Hill .....	Somerset .....	Yes .....	No .....
June 25	No. 2 .....	New Richmond .....	Yes .....	No .....
Sauk Co.				
Apr. 29	Lower Big Hollow ..	Spring Green .....	Yes .....	Yes .....
Apr. 29	Upper Big Hollow ..	Spring Green .....	Yes .....	Yes .....
Apr. 29	Pleasant Valley ..	Plain .....	Yes .....	Yes .....
Apr. 30	White Mound .....	White Mound .....	Yes .....	Yes .....
Apr. 30	Poplar Grove .....	Plain .....	Yes .....	Yes .....
Apr. 30	Cedar Grove .....	Plain .....	Yes .....	Yes .....
Apr. 30	Clover Hill .....	Plain .....	Yes .....	Yes .....
May 2	Ward's Factory .....	Sandusky .....	Yes .....	Yes .....
Shawano Co.				
Apr. 15	Wolf River, No. 1 ..	Embarrass .....	Yes .....	Yes .....
May 14	Grass Lake Ch. Fac.	Belle Plaine .....	Yes .....	No .....
May 15	Wolf River .....	Embarrass .....	Yes .....	No .....
May 21	Briarton .....	Leeman, R. 31 .....	Yes .....	No .....
June 25	Leopolls .....	Leopolls .....	Yes .....	No .....
June 27	Elm Grove .....	Marion, R. 2 .....	Yes .....	No .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
Passable	Clean	Good	Good		
Good	New	Good	New		
Good	Clean	Good	Good		Good
Good	Clean	Good	Good	Good	Good
Not good		Good	Good		
Good	Clean	Good	Good	Good	
Good		Good	Good		
Poor	Clean	Passable	Good	Some rusty	Passable
Good	Clean	Good	Good		
Poor		Passable	Clean		
Poor	Clean	Good	Vat rusty		
Passable	Clean	Passable	Good	Good	Mostly good
Good	Clean	Good	Clean		
Defective	Good	Good	Good	Some poor	Some poor
Good	Clean	Clean	Good	Good	Good
Good	Clean	Good	Good		
Good	Clean	Good	Good		
June 1.)					
Passable	Unclean	Good	Poor repair		Gassy
Defective	Clean	Good	Good		
Good	Clean	Good	Good		
Good	Passable	Good	Good		
Defective		Good	Clean	Good	Mostly good.
Passable	Clean	Good	Clean	Good	Mostly good.
Good	Clean	Good	Clean	Mostly good.	Mostly good.
Passable	Clean	Good	Clean	Mostly good.	Some off flav
Passable	Clean	Good	Clean	Mostly good.	Mostly gassy.
Good	Passable	Passable	Passable	Mostly good.	Mostly good.
Good	Passable	Good	Good	Mostly good.	Good
Passable	Passable	Good	Good	Mostly good.	Mostly good.
Passable	Passable	Passable	Good	Mostly good.	Mostly good.
Passable	Clean	Passable	Good		Some gassy.
Good	Clean	Good	Good	Good	Good
Passable	Good	Good	Good	Mostly clean	Some uncl'n.
Effective	Passable	Passable	Good	Passable	Passable
Bad	Not clean	Not good	Passable	Some unfit	
Effective	Passable	Good	Good		
	Not clean	Passable	Good		
Bad	Not clean	Unclean	Not clean	Some unfit	Much off flav
	Not clean	Not clean	Passable	Some unfit	Much off flav
To be tiled	Clean	Passable	Clean		Good
Good	Not clean	Passable	Good		Good
Good	Passable	Good	Clean		Good
Defective	Passable	Needs rep'r	Part faulty		
Defective	Passable	Good	Good		Good
Defective	Passable	Good	Good		Good
Defective	Passable	Old	Clean	Good	Good
Good	Clean	Good	Clean		
Not good	Cle'd wk'ly	Good	Clean	Some rusty	Some sedim't
None	Clean	Good	Clean	Good	Good
Not good	Not clean	Good	Good	Good	Mostly good.
Good	Not clean	Good	Good	Good	Not all clean
None	Not clean	Good	Not all clean	Good	Clean
Ineffective	Clean	Clean	Good	Good	Clean



## CHEESE FACTORY INSPECTION—Continued.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
1908.				
Sheboygan Co.				
Apr. 21	Valley Ch. Fac...	Plymouth .....	Yes .....	No .....
Apr. 28	Adell .....	Adell .....	Yes .....	No .....
May 20	Onion River .....	Waldo .....	Yes .....	No .....
May 22	Batavia .....	Adell .....	Yes .....	Yes .....
June 2	McKinnon .....	Sheboygan Falls .....	Yes .....	No .....
June 2	Anderson .....	Sheboygan Falls .....	Yes .....	No .....
June 3	Town Line .....	Sheboygan Falls, R. 8 .....	Yes .....	Yes .....
June 3	Rehm .....	Plymouth, R. 29 .....	Yes .....	No .....
June 3	Otter Creek .....	Plymouth, R. 29 .....	Yes .....	No .....
June 3	Hahn .....	Sheboygan Falls .....	Yes .....	No .....
June 4	Harmon .....	Plymouth, R. 24 .....	Yes .....	No .....
June 9	Lima .....	Waldo .....	Yes .....	No .....
June 16	Plymouth .....	Plymouth .....	Yes .....	No .....
June 19	Lammers .....	Sheboygan, R. 5 .....	Yes .....	No .....
June 19	Weeden's .....	Sheboygan, R. 4 .....	Yes .....	Yes .....
June 19	Six Corners .....	Sheboygan, R. 4 .....	Yes .....	Yes .....
June 25	Ternes .....	Cedar Grove, R. 15 .....	Yes .....	No .....
June 24	Hillside Valley .....	Elkhart, R. 33 .....	Yes .....	No .....
June 25	Riverside .....	Elkhart, R. 34 .....	Yes .....	No .....
June 26	Rehm .....	Elkhart, R. 33 .....	Yes .....	No .....
June 26	Onion River .....	Waldo .....	Yes .....	Yes .....
Taylor Co.				
Apr. 30	Schultz's .....	Medford .....	Yes .....	No .....
Apr. 30	Little Black .....	Medford .....	Yes .....	No .....
Vernon Co.				
May 5	Kickapoo Valley Cry. Co.	La Farge .....	Yes .....	No .....
May 6	Manning .....	Reedstown, R. 1 .....	Yes .....	No .....
May 7	Muncie .....	Dille, R. 1 .....	Yes .....	No .....
May 7	Star Valley .....	La Farge, R. 3 .....	Yes .....	No .....
May 28	Manning .....	Reedstown, R. 1 .....	Yes .....	Yes .....
June 18	Liberty Pole .....	Viroqua, R. 4 .....	Yes .....	Yes .....
June 18	Fargo .....	Viroqua, R. 4 .....	Yes .....	Yes .....
Washington Co.				
Apr. 14	West Side .....	Hartford .....	No .....	No .....
Apr. 14	Hartford C. & B. Ass'n.	Hartford, R. 3 .....	No .....	No .....
Apr. 14	St. Lawrence .....	St. Lawrence .....	No .....	No .....
Apr. 16	South Star .....	Hartford .....	No .....	No .....
Apr. 16	Pleasant Hill .....	Hartford .....	No .....	No .....
Apr. 17	Schleisingerville .....	Schleisingerville .....	No .....	No .....
Apr. 25	Northwestern .....	Neosho .....	No .....	No .....
Apr. 30	Pleasant Hill .....	Hartford .....	No .....	No .....
May 15	North Side .....	Hartford .....	Yes .....	No .....
May 24	Addison .....	Allenton .....	No .....	No .....
May 28	Six Corners .....	Allenton, R. F. D. .....	No .....	No .....
May 28	Wayne & Addison .....	Allenton, R. F. D. .....	No .....	No .....
May 28	St. Lawrence .....	St. Lawrence .....	No .....	No .....
May 29	Strupp .....	St. Lawrence .....	Yes .....	No .....
May 29	Kohlsville .....	Hartford, R. 3 .....	Yes .....	No .....
June 24	Northwest .....	Kohlsville .....	Yes .....	No .....
June 24	Pleasant Hill .....	Hartford .....	No .....	No .....
June 25	Knellerville .....	Hartford .....	No .....	No .....
June 30	Port Washington .....	Port Washington .....	Yes .....	No .....
June 30	Port Washington .....	Port Washington .....	Yes .....	Yes .....
Waukesha Co.				
Apr. 10	Brown St. ....	Oconomowoc, R. 25 .....	No .....	No .....
Apr. 10	Mapleton .....	Oconomowoc, R. 25 .....	No .....	No .....
May 2	Mapleton .....	Oconomowoc .....	No .....	No .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
None .....	Not clean....	Passable .....	Good .....	Some rusty..	Not all clean
	Passable .....	Passable .....	Good .....	Some faulty.	Clean .....
Not good ..	Not clean....	Passable .....	Not all clean	Mostly good.	Not all clean
	Passable .....	Good .....	Clean .....	.....	.....
Effective ..	Bad .....	Passable .....	Not all clean	.....	.....
None .....	Not clean ..	Not all clean	Not all clean	.....	.....
Defective ..	Not clean ..	Passable .....	Not all clean	.....	.....
Defective ..	Not clean ..	Passable .....	Not all clean	.....	.....
None .....	Not clean....	Passable .....	Not all clean	.....	.....
None .....	Not clean....	Clean .....	Clean .....	.....	.....
Defective ..	Not clean....	Not clean ..	Not all clean	.....	.....
None .....	Bad .....	Passable .....	Passable .....	Some unfit ..	Not all clean
Defective ..	Not clean....	Good .....	Not all clean	Good .....	Good .....
Defective ..	Passable .....	Passable .....	Passable .....	.....	.....
None .....	Not clean....	Passable .....	Not all clean	.....	.....
Faulty .....	Not clean....	Unclean .....	Not all clean	.....	.....
Faulty .....	Not clean....	Passable .....	Not all clean	.....	.....
None .....	Not clean....	Unclean .....	Not all clean	Some rusty..	Fairly clean.
Effective ..	Good .....	Passable .....	Part unclean	Some rusty..	Fairly clean.
None .....	Not clean....	Very good..	Clean .....	Some rusty..	Good .....
Good .....	Good .....	Good .....	Good .....	Good .....	Good .....
Defective ..	.....	Good .....	Good .....	Good .....	Passable .....
None .....	Not clean....	Being repai'd	Passable .....	.....	.....
Excellent ..	Good .....	Poor floors..	Clean .....	Good .....	Good .....
Bad .....	Not clean....	Good .....	Clean .....	Clean .....	Good .....
Defective ..	Clean .....	Good .....	Clean .....	.....	.....
Excellent ..	Not clean ..	Not good ..	Clean .....	Mostly good.	Mostly good
Passable ..	Passable .....	Good .....	Good .....	Good .....	Good .....
Defective ..	Clean .....	Good .....	Clean .....	.....	.....
Bad .....	Not clean....	Good .....	Good .....	Good .....	Good .....
Sewer .....	Good .....	Not good ..	Good .....	.....	.....
Good .....	Good .....	Good .....	Good .....	.....	.....
Good .....	Good .....	Good .....	Clean .....	.....	.....
Not good ..	Clean .....	Passable ..	Good .....	Mostly good.	Mostly good
Good .....	Clean .....	Good .....	Good .....	.....	.....
Passable ..	Passable .....	Passable ..	Good .....	.....	.....
Not good ..	Good .....	Very poor ..	Good .....	Mostly good.	Good .....
Excellent ..	Good .....	Good .....	Good .....	Good .....	Good .....
.....	Good .....	Good .....	Good .....	Mostly good.	Good .....
.....	Good .....	Good .....	Good .....	Mostly good.	Mostly good
Good .....	Good .....	Good .....	Good .....	Good .....	Good .....
Passable ..	Not clean....	Passable ..	Good .....	Not all clean	.....
Good .....	Clean .....	Passable ..	Good .....	Mostly good.	Mostly good
Good .....	Clean .....	Good .....	Good .....	Good .....	Good .....
Good .....	Passable ..	Not good ..	Some unclean	Mostly good.	Mostly good
Passable ..	Clean .....	Good .....	Good .....	Not all clean	.....
Very good..	Good .....	Good .....	Excellent ..	Good .....	Good .....
Bad .....	Not clean ..	Not clean ..	Not clean ..	.....	.....
Very good..	Clean .....	Good .....	Good .....	.....	.....
Passable ..	Passable .....	Passable .....	Passable .....	.....	.....
Good .....	Passable ..	Passable .....	Passable ..	.....	.....
Good .....	Clean .....	Good .....	Clean .....	Mostly clean	Not all clean

## CHEESE FACTORY INSPECTION—Continued.

Date.	Name of Factory.	Address.	Babcock Test used?	Wisconsin Curd Test used?
Waupaca Co.				
1908.				
Mich. 18	Mukwa .....	New London, R. 2 .....	Yes .....	Yes .....
Apr. 16	Farmers' Independent Ch. & B. Co.	Clintonville, R. 2 .....	Yes .....	Yes .....
Apr. 17	Silver Star .....	Embarrass .....	No .....	No .....
Apr. 20	Readfield .....	Readfield .....	Yes .....	No .....
Apr. 22	Twin Ch. & B. Co.	Clintonville, R. 2 .....	Yes .....	Yes .....
Apr. 25	Nick Zehren .....	Clintonville, R. 1 .....	Yes .....	Yes .....
May 5	Maple Grove .....	Clintonville .....	Yes .....	No .....
May 6	Maple Valley .....	Marion, R. 3 .....	Yes .....	No .....
May 7	Caledonia .....	New London, R. 2 .....	Yes .....	No .....
May 16	Sieferdt .....	Clintonville, R. 4 .....	Yes .....	No .....
May 20	Stange .....	Weyauwega .....	Yes .....	No .....
June 24	Dupont Farmers' Ch. Co.	Marion, R. 3 .....	Yes .....	Yes .....
Winnebago Co.				
May 20	Faber .....	Neenah .....	No .....	No .....
June 1	Vosberg .....	Allenville .....	Yes .....	No .....
June 1	Schneider .....	Allenville .....	Yes .....	No .....
June 1	G. Haneter .....	Neenah .....	Yes .....	No .....
June 20	Vosburg .....	Neenah .....	No .....	No .....
June 20	Ryf .....	Allenville, R. 18 .....	Yes .....	No .....
June 20	Butte des Morts..	Oshkosh, R. 6 .....	Yes .....	No .....
June 20	Reuteler .....	Winneconne .....	Yes .....	No .....
June 20	Butte des Morts..	Butte des Morts .....	Yes .....	No .....
June 20	Allenville .....	Allenville .....	Yes .....	No .....

CHEESE FACTORY INSPECTION—Continued.

Condition of Drainage.	Condition of Whey Tank.	Condition of Building.	Condition of Apparatus.	Condition of Milk Cans.	Condition of Milk in Cans.
None .....	Clean .....	Clean .....	Good .....	Some rusty..	Some sedim't
None .....	Clean .....	Clean .....	Good .....	Mostly good.	Good .....
None .....	Clean .....	Good .....	Good .....	Mostly good.	Good .....
Not good ....	Unclean ...	Unclean ....	Not all clean	Some unfit..	Some sedim't
Not good . .	Cleaned weekly	Good .....	Clean .....	Not all good.	Some sedim't
None .....	Clean .....	Good .....	Clean .....	Good .....	Not all clean
None .....	Clean .....	Good .....	Good .....	Good .....	Mostly good.
None .....	Not clean ...	Good .....	Good .....	Mostly good.	Good .....
None .....	Not clean ...	Good .....	Good .....	Mostly good.	Mostly good
None .....	Not clean ...	Good .....	Good .....	Mostly good.	Mostly good.
Excellent ...	Not clean ...	Good .....	Good .....	Clean .....	Clean .....
None .....	Good .....	Good .....	Good .....	Not all good.	Clean .....
Effective ....	Clean .....	Good .....	Clean .....	.....	.....
None .....	Not clean ...	Not clean...	Not all clean	.....	.....
None .....	.....	Not clean...	Not all clean	.....	.....
Effective ....	Clean .....	Good .....	Clean .....	.....	.....
None .....	Not clean ...	Passable ...	Clean .....	Some rusty..	Good .....
Effective ....	Clean .....	Good .....	Clean .....	.....	.....
Ineffective ..	Passable ...	Unclean ....	Clean .....	.....	.....
None .....	Passable ...	Unclean ....	Clean .....	.....	.....
Defective ...	Clean .....	Good .....	Clean .....	.....	.....

## CREAMERY INSPECTION.

Date.	Name of Creamery.	Address.	Pr ct Over-run.	Condition of Glassware.	Condition of Tester.
1908.					
Adams Co.					
Apr. 28	Arkdale .....	Arkdale .....	14	Clean .....	Good .....
Apr. 29	Adams Center .....	Adams Center .....	11	Clean .....	Good .....
Apr. 29	Quincy Sk. Sta. ....	Whitcreek .....	.....	.....	Defective ..
May 1	Plainville .....	Plainville .....	14	Clean .....	Good .....
Barron Co.					
Jan. 20	Rice Lake .....	Rice Lake .....	17.45	Clean .....	Good .....
Mch. 17	Barron .....	Barron .....	19	Clean .....	Good .....
Mch. 19	Barronett .....	Barronett .....	.....	Not clean ..	Passable .....
Mch. 19	Cumberland .....	Cumberland .....	16	Not clean ..	Passable .....
Mch. 18	(Cream Station) ..	Turtle Lake .....	.....	Not clean ..	Good .....
Mch. 18	Turtle Lake .....	Turtle Lake .....	18.	Not clean ..	Passable .....
June 19	Chetek .....	Chetek .....	14	Clean .....	Passable .....
June 20	Moose Ear .....	Chetek .....	17	Clean .....	Good .....
Brown Co.					
Apr. 30	Wis. B. & Ch. Co. ....	Wrightstown .....	.....	Good .....	Good .....
May 1	E. River Val Cry. Co. ....	East Depere, R. 1. ....	.....	Good .....	Defective ...
Buffalo Co.					
Jan. 29	Nelson Cry.....	Nelson .....	17	Clean .....	Good .....
Jan. 30	Cochrane Co-op Farmers' Cry. ....	Cochrane .....	17	Clean .....	Good .....
Feb. 28	Nelson .....	Nelson .....	20	Good .....	Passable .....
Apr. 8	Fountain City .....	Fountain City .....	16	Good .....	Good .....
Apr. 10	Cochrane Co-op Farmers' Cry. ....	Cochrane .....	17	Clean .....	Good .....
Apr. 20	Garden Val. Cry. Co. ....	Waumandee .....	19	Clean .....	Good .....
Apr. 21	Lookout Co-op. Cry. ....	Independence .....	15.5	Not clean ...	Good .....
Apr. 24	Gilmanton Cry. Co. ....	Gilmanton .....	18.5	Clean .....	Defective ...
May 14	Mondovi Co-op. Cry. Co. ....	Mondovi .....	14	Clean .....	Good .....
June 12	Modena Co-op. Cry. Co. ....	Modena .....	13	Clean .....	Good .....
Chippewa Co.					
Apr. 7	Cadott .....	Cadott .....	.....	Pipette inaccurate.	Good .....
Apr. 7	Monroe's .....	Cadott .....	.....	Clean .....	Good .....
Apr. 8	Stanley .....	Stanley .....	16.07	Passable .....	Good .....
Apr. 8	Boyd .....	Boyd .....	13.3	Not clean ...	.....
Apr. 10	Chippewa .....	Chippewa Falls. ....	19	.....	Good .....
Apr. 16	Wheaton .....	Chip. Falls, R. 6. ....	14	Clean .....	Passable .....
Apr. 16	Town Line .....	Chip. Falls, R. 7. ....	.....	Not clean ...	Passable .....
Apr. 17	Lafayette Co-op. Cry. Co. ....	Chip. Falls, R. 1. ....	6	Clean .....	Passable .....
June 6	Cadott Cry. Co. ....	Cadott .....	.....	Clean .....	Good .....
June 10	Yellow River .....	Boyd .....	22.9	Clean .....	Good .....
June 17	Jim Falls Co-op. ....	Jim Falls .....	.....	Passable .....	Good .....
June 18	Eagleton .....	Chip. Falls, R. 8. ....	.....	Not clean ...	Good .....
June 18	Eagle Point .....	Chip. Falls, R. 8. ....	.....	Passable .....	Passable .....
June 18	Tilden .....	Chip. Falls, R. 8. ....	15.5	.....	Good .....
Clark Co.					
Apr. 9	Thorpe D'y Co. ....	Thorpe .....	17.1	Not clean ...	Good .....
Apr. 10	Withee .....	Withee .....	.....	Not clean ...	Good .....
May 2	Abbotsford Cry. Assn. ....	Abbotsford .....	15	Passably cl'n	Good .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Good .....	No .....	Clean .....	Clean .....	Passable ....	Passable ....
Bad .....	Yes .....	Clean .....	Clean .....	Passable ....	Poor floors..
Good .....	Yes .....	Clean .....	Mostly clean	Good .....	Passable ....
Good .....	No .....	Clean .....	Good .....	Part old.....	Poor floors..
Effective ....	No .....	Clean .....	.....	.....	Good .....
Effective ....	No .....	Good .....	Cr. passable	.....	Good .....
Effective ....	No .....	Passable .....	.....	.....	Passable ....
Passable .....	No .....	Passable .....	.....	.....	Passable ....
.....	No .....	.....	.....	.....	Passable ....
Defective ....	No .....	Good .....	.....	.....	Passable ....
Passable .....	No .....	Passable .....	Passable ....	Cr. passable	Good .....
Effective ....	No .....	Clean .....	Good .....	Cr. passable	Good .....
Good .....	No .....	Good .....	Good .....	Some sedim't	Good .....
Good .....	No .....	Good .....	Good .....	.....	Good .....
Passable ....	No .....	Clean .....	.....	.....	Poor floors..
Effective ....	No .....	Part unclean	.....	.....	Good .....
Passable ....	No .....	Good .....	.....	.....	Good .....
Good .....	No .....	Good .....	.....	.....	Good .....
Good .....	No .....	Clean .....	.....	Cr., p't old..	Good .....
Excellent ...	No .....	Clean .....	.....	.....	Good .....
Excellent ....	No .....	Clean .....	.....	.....	Wood floor..
Excellent ...	No .....	Clean .....	Part unclean	Mostly old...	Passable ....
Excellent ...	No .....	Clean .....	Mostly good.	Part old.....	Passable ....
Effective ....	No .....	Clean .....	Part unclean	Good .....	Good .....
Effective ....	No .....	Passable ...	.....	.....	Good .....
Effective ....	No .....	Good .....	.....	.....	Passable ....
Effective ....	Yes .....	Churn uncl'n	Passable ...	Cr. passable	Passable ....
Effective ....	No .....	Churn uncl'n	.....	.....	Passable ....
Effective ....	No .....	Good .....	.....	.....	Good .....
Defective ....	Yes .....	Good .....	.....	.....	Poor floor..
Effective ....	No .....	Not all clean	.....	.....	Passable ....
Bad .....	No .....	Good .....	Some unfit..	Some uncl'n	Poor floor ...
Effective ....	No .....	Clean .....	.....	Cream, old..	Good .....
.....	No .....	Passable .....	.....	.....	Passable ....
Effective ....	No .....	Good .....	.....	Cream, old..	Good .....
Passable .....	No .....	Passable .....	Passable ...	.....	Passable ....
Effective ....	No .....	Passable .....	.....	.....	Good .....
Effective ....	No .....	Passable .....	.....	.....	Good .....
Defective ...	Yes .....	Good .....	Passable ...	Cr. passable	Passable ....
Passable .....	No .....	Uncl'n churn	.....	.....	Good .....
Effective ....	No .....	Passable ...	.....	.....	Passable ....

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Prc t Over- run.	Condition of Glassware.	Condition of Tester.
Clark Co.—Con.					
1908.					
May 5	Peterson's Sk. St.	Withee .....			
May 5	Pleasant View ...	Withee .....	11	Passably cl'n	Good .....
May 6	Clover Belt Cry. Co.	Owen .....		Clean .....	Good .....
May 6	Withee .....	Withee .....		Passably cl'n	Good .....
May 25	Dorchester .....	Dorchester .....		Passable ....	Passable ....
Columbia Co.					
Jan. 1-2	Poynette .....	Poynette .....		Good .....	Good .....
Feb. 20	Doylestown .....	Doylestown .....	17	Clean, corr't	Good .....
Feb. 25	-28 Cambria .....	Cambria .....	16	Clean, corr't	Poor .....
June 13	Portage .....	Portage .....	16	Clean .....	Good .....
Crawford Co.					
Mch. 25	Gay's Mills .....	Gay's Mills .....	16	Good .....	Good .....
May 27	Soldiers Grove ...	Soldier's Grove ....	15	Clean .....	Passable ....
May 28	Readstown Cry. Co.	Readstown .....			
June 3	Gays Mills .....	Gay's Mills .....	20	Clean .....	Good .....
June 3	Wauzeka .....	Wauzeka .....	18	Clean .....	Good .....
Dane Co.					
Jan. 15	Oak Hill .....	Cottage Grove .....		Passable ....	Passable ....
Jan. 15	Paoli .....	Basco .....		Passable ....	Passable ....
Jan. 21	-23 Oak Hill Co-op.	Basco .....	15	Clean, corr't	Good .....
Jan. 27	-28 Hillside .....	Cambridge .....	10	Clean, corr't	Good .....
Feb. 18	Marksville .....	Mazomanie, R. D....	17	Good .....	Good .....
Feb. 18	Blue Ribbon .....	Dane, R. 87 .....	17	Clean .....	Good .....
Mch. 6	Emerald .....	Edgerton .....		Not all corr't	Defective ...
Apr. 21	Square Deal .....	Stoughton .....		Good .....	Good .....
Apr. 30	Belleville .....	Belleville .....	10	Not all clean	Passable ....
May 5	McFarland Co-op.	McFarland .....		Good .....	Passable ....
May 16	Crystal .....	Verona .....	16	Good .....	Good .....
June 1	-2 Medina Cry. Co	Marshall .....	7	Not clean ...	Faulty .....
Dodge Co.					
Feb. 9	The Randolph Cry. Co.	Randolph .....		Unclean ....	Good .....
Mch. 16	Gold Medal .....	Reeseville .....		Unclean ....	Unclean ....
Apr. 1	Randolph .....	Randolph .....	15	Clean .....	Good .....
Apr. 22	Gold Medal .....	Reeseville .....		Good .....	Good .....
May 1	Minn. Junction ..	Minnesota Jct.....		Good .....	Good .....
May 11	Minn. Junction ..	Minnesota Jct.....		Good .....	Good .....
June 19	Minnesota Jct.....	Minnesota Jct.....		Good .....	Good .....
Dunn Co.					
Feb. 28	Boyceville .....	Boyceville .....	10.2	Not clean ...	Passable ....
Feb. 29	Wheeler Cry. Assn.	Wheeler .....	14.	Passable ....	Good .....
Mch. 4	Knapp .....	Knapp .....	12	Clean .....	Good .....
Mch. 23	Elk Mound .....	Elk Mound .....	18.5	Passable ....	Good .....
Mch. 24	Downsville .....	Downsville .....	17.45	Not clean ...	Good .....
Mch. 25	New Hudson Road	Menomonie .....		Not clean ...	Good .....
Mch. 26	Farmers' Co-op. Dairy Assn.	Rusk .....	14	Clean .....	Good .....
Apr. 18	Colfax .....	Colfax .....	21.4	Clean .....	Good .....
May 19	New Hudson Road	Menomonie .....	16.6	Not clean ...	Passable ....
May 21	Boyceville .....	Boyceville .....	10	Clean .....	Passable ....
May 22	Chimney Rock ...	Downing, R. 1.....			Passable ....
May 22	Connersville .....	Downing, R. 1.....	17	Passable ....	Passable ....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Defective	No	Passable	Mostly clean	Passable	Passable
Passable	No	Good			Good
Effective	No	Good			Good
Passable	No	Good			Good
None	No	Clean			Clean
Good	No	Bad		Mostly good.	Passable
Good	No	Good	Clean	Good	Good
Good	No	Not all good.	Mostly clean	Part unclean	Good
Good	No	Clean			Good
Defective	No	Good			Poor floor ..
Excellent	No	Good			Good
Good		Good	(To start	operation	June 1.)
Good	No	Good	Passable		Passable
Good	No	Clean	Mostly good.	Cr. passable	Good
Effective	No	Part unclean			Good
Passable	No	Good	Mostly good.	Mostly good.	Passable
Passable	No	Not all good.	Some unfit ..	Clean	Good
Good	No	Good	Mostly clean	Clean	Good
Good	No	Clean	Mostly clean	Clean	Good
Poor	No	Clean			Good
Good	No	Not all clean	Mostly good.	Good	Passable
Good	No	Good	Some unfit..	Some unfit..	Good
Passable	No	Good	Mostly clean	Not all clean	Passable
Bad	Yes	Not clean			Not clean
Effective	No	Passable		Mostly good.	Fairly good.
Good	Yes	Not clean	Good	Good	Unclean
None		Clean			Passable
Not good	No	Unclean			Unfit
Bad	Yes	Good			Good
Good	No	Good	Good	Good	Good
Good	No	Good	Good	Good	Good
Good	No	Good	Mostly good.	Mostly good.	Good
Good	No	Good	Good	Good	Good
Effective	No	Passable			Passable
Effective	No	Clean			Passable
Effective	No	Good	Some uncl'n.	Some off fl'r	Good
Defective	Yes	Good		Passable	Good
Effective	No	Some poor..			Good
Defective	Yes	Clean			Passable
Passable	No	Part uncl'n.			Good
Effective	No	Good	Cr. passable	Cr. passable	Good
Passable	No	Passable			Good
Effective	No	Clean			Passable
Effective	No	Clean			Good
Defective	Yes	Good			Passable



## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Per cent Over- run.	Condition of Glassware.	Condition of Tester.
Eau Claire Co.					
1908.					
March 4	Fall Creek .....	Fall Creek .....	17.5	Clean .....	Passable .....
June 4	Sk. Sta., No. 2....	Fall Creek, R. 1.....			
June 8	Sk. Sta., No. 3....	Fall Creek, R. 1.....			
Fond du Lac Co.					
Feb. 15	Brandon .....	Brandon .....	20	Not clean...	Passable .....
Apr. 2	Rosendale .....	Rosendale .....		Good .....	Good .....
May 7	Fond du Lac .....	Fond du Lac.....			
May 17	Van Dyne .....	Van Dyne .....	12.1		
May 15	Ashford Sk. Sta.	Lomira .....		Defective ..	
May 23	Schneider Sk. Sta.	Malone .....			
May 23	Silica .....	Malone .....			
May 23	Johnsburg .....	Malone .....	23	Good .....	Good .....
June 17	Ladoga .....	Malone .....	11.70	Good .....	Good .....
June 17	Neeb. Sk. Sta.	Brandon, R. 21 .....	14	Good .....	Good .....
June 17	Willow Creek .....	Oakfield .....			
June 17	Rock Riv. Sk. Sta.	Waupun .....	12.6	Good .....	
June 17	Rogersville .....	Oakfield, R. 26 .....			
		Fond du Lac .....	18	Good .....	Good .....
Grant Co.					
Apr. 27	Farmers' Co-op. Cry. Co.	Montfort .....	17	Good .....	Good .....
May 12	Werley Co-op. Cry. Co.	Werley .....	23.4	Clean .....	Good .....
May 12	Fennimore Co-op.	Fennimore .....	23	Good .....	Good .....
May 12	Fennimore .....	Fennimore .....		Clean .....	Good .....
May 11	Ideal .....	Fennimore .....		Good .....	Good .....
May 13	Stitzer Cry. Co.	Stitzer .....	15	Good .....	Good .....
May 14	Lancaster .....	Lancaster .....	15.84	Good .....	Good .....
May 15	Platteville Cheese & Produce Co.	Platteville .....		Good .....	Good .....
June 8	Beetown Cry. Co.	Beetown .....	12.21	Good .....	
June 9	N. Andover Dy. Assn.	N. Andover .....	18.5	Good .....	
June 10	Boscobel .....	Boscobel .....	22	Good .....	
Green Co.					
Jan. 8	Brodhead .....	Brodhead .....	19	Passable ....	Passable ....
Jan. 16	Dayton .....	Dayton .....	17	Not all corr't	Passable ....
Green Lake Co.					
May 1	Berlin .....	Berlin .....	18		
June 9	Brooklyn .....	Green Lake .....	16	Clean .....	Good .....
June 10	Princeton .....	Princeton .....	16	Clean .....	Good .....
June 16	Black Creek Sk. Sta.	Princeton .....	17		
June 16	Princeton .....	Princeton .....		Good .....	Good .....
Iowa Co.					
Apr. 23	Highland Cry. Co.	Highland .....	12	Good .....	Good .....
Apr. 24	Otter Creek Cry. Co.	Edmund, R. 1 .....	12	Good .....	Good .....
Apr. 24	Cobb .....	Cobb .....	18	Part unclean	Faulty .....
Apr. 24	High Point Cry. Co.	Cobb, R. 1 .....	13.5	Good .....	Good .....
Apr. 27	Edmund Cry. Co.	Edmund .....	13.5	Good .....	Good .....
May 23	Mineral Point ...	Mineral Point .....	18	Good .....	Good .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Effective	No	Clean			Good
Passable	Yes	Passable	Pt. passable.	Part unclean	Unclean
Passable	No	Passable			Passable
Defective	Yes	Passable			Unclean
Good	No	Good			Good
Effective	No	Not clean	Good	Fairly good.	Passable
Defective	No	Clean	Part uncl'n	Passable	Foul floor
Defective	Yes	Not all clean			Not clean
Defective	No	Not all clean			Passable
Effective	No	Not all clean			Passable
Faulty	No	Not all clean			Passable
Effective	No	Clean			Good
Defective	Yes	Not all clean			Not clean
Effective	No	Not all clean			Passable
Defective	No	Not all clean			Good
Defective	No	Clean			Old, pass'ble.
Good	Yes	Good		Old flavor	Clean
Excellent	No	Very good	Good	Good	Very good
Good	No	Very good			Very good
Bad	Yes	Not all clean			Not clean
Good	No	Passably cl'n	Good	Good	Poor floor
Not good	No	Clean			Good
Good	No	Good	Mostly good.	Mostly good.	Good
Good	No	Good	Good	Good	Good
Good	No	Good			Passable
Passable	No	Good	Mostly good.	Some unfit.	Clean
Good	Yes	Good	Some uncl'n.	Some unfit.	Passable
Passable	No	Good	Mostly clean	Mostly good.	Passable
Passable	No	Good	Mostly clean	Mostly clean	Good
Defective	No	Good	Some uncl...	P't not good	Passable
Good	No	Not all good.			Passable
Good	No	Clean			Good
Good	No	Clean	Good	Clean	Good
Effective	No	Not all clean	Not all clean	Not all clean	Good
Very bad	Yes	Fairly good.			Being rep'd.
Very good.	No	Good			Clean
Good	No	Mostly good.	Good	Mostly good.	Being rep'd.
Passable	No	Good			Clean
Good	Yes	Part uncl'n.		Cream, old.	Unclean
Good	No	Clean	Good	Good	Passable

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Pr ct Over- run.	Condition of Glassware.	Condition of Tester.
1908.					
Jackson Co.					
Jan. 17	North Branch Cream Sta.	Alma Center .....		Clean .....	None .....
Mch. 5	Blk. River Falls..	Blk Riv. Falls.....	11	Good .....	.....
Apr. 14	Melrose .....	Melrose .....	15	Clean .....	Good .....
Apr. 15	Disco .....	Melrose .....	19	Clean .....	Good .....
Apr. 15	Irving Co-op.....	Blk. Riv. Falls.....	21	Clean .....	Good .....
May 13	York Cry. Co.....	Northfield .....	20	Clean .....	Defective ..
May 16	Price Sk. Sta.....	Fairchild .....		.....	.....
Jefferson Co.					
Jan. 14	Rock River Val..	Jefferson .....	15	Clean, corr't	Good .....
Jan. 15	Farmington .....	Helenville .....	18	Fairly good.	Good .....
Jan. 16	Ayrshire .....	Johnson's Creek ..	17	Clean, corr't	Good .....
Jan. 17	Aztalan .....	Lake Mills .....	18	Clean, corr't	Good .....
Feb. 21	Star .....	Lake Mills .....	14	Clean, corr't	Good .....
Mch. 5	Badger Sk. Sta..	Lake Mills .....		Clean, corr't	Good .....
Apr. 2	Union .....	Cambridge .....	10	Clean, corr't.	Good .....
Apr. 3	Star .....	Lake Mills .....	17	Clean, corr't	Good .....
Apr. 9	Rock Valley .....	Jefferson .....	16	Not clean....	Faulty .....
Apr. 9	Shoemaker's .....	Jefferson .....	16	Clean, corr't	Good .....
Apr. 15	Union .....	Cambridge .....	16	Clean, corr't	Good .....
Apr. 17	Fairview .....	Jefferson, R. 2 .....	16	Clean, corr't	Good .....
Apr. 18	Fairview Sk. Sta.	Jefferson .....	16	Clean, corr't.	Good .....
May 5	Waterloo B. & C. Co.	Waterloo .....	15	Passable ...	Faulty .....
May 5	Fountain .....	Waterloo .....	16	Clean .....	Good .....
May 21	Blackhawk .....	Fort Atkinson .....	13	Clean, corr't.	Good .....
May 21	Rock Springs .....	Ft. Atkinson, R. D.	10	Clean, corr't.	Good .....
May 25	Palmyra .....	Palmyra .....	17	Clean, corr't.	Good .....
June 3	Jersey Dale Sk. Sta.	Sullivan .....	16	.....	.....
June 3	Sullivan .....	Sullivan .....	16	Clean .....	Good .....
June 4	Concord Sk. Sta..	Sullivan .....		.....	.....
June 4	Bakertown Sk. St	Sullivan .....		.....	.....
June 5	Concord .....	Oconomowoc .....	16	Clean, corr't	Passable .....
June 16	Fountain .....	Waterloo .....		Good .....	Good .....
June 29	Marshall's Home Cry.	Whitewater, R. D..	15	Not clean....	Good .....
June 30	Big Spring .....	Whitewater, R. D..	20	Correct, cl..	Good .....
Juneau Co.					
Jan. 7	Necedah .....	Oakdale .....		Good .....	Passable .....
Jan. 8	New Lisbon .....	New Lisbon .....		Not clean....	Passable .....
Jan. 23	Union Center .....	Union Center .....		Clean .....	Defective .....
Mch. 26	Badger State Cry. Co.	Elroy .....		Clean .....	Good .....
Mch. 31	Lone Rock B. & C. Co.	Camp Douglas .....	11.75	Clean .....	Good .....
Apr. 30	Necedah Co-op....	Necedah .....	20.86	Good .....	Good .....
May 27	Farmers' Co-op. Dairy Co.	Wonewoc .....	16	Clean .....	Good .....
May 29	Hustler .....	Hustler .....	16	Good .....	Good .....
Kenosha Co.					
Jan. 2	Walker's Prairie..	Pl. Prairie, R. 33..	17	Good, clean.	Good .....
Jan. 2	Pikeville .....	Bristol, R. 3 .....	13	Good, clean.	Good .....
Jan. 18	High St. ....	Burlington, R. 20 ..	16.5	Clean .....	Good .....
Jan. 27	Klondike .....	Salem .....	17	Clean .....	Good .....
Mch. 3	Wilnot .....	Wilnot .....		Good .....	Good .....
Mch. 3	Wheatland .....	.....		Good .....	Poor .....
Apr. 24	Paris Corners .....	Union Grove, R. 8 ..		Clean .....	Good .....
Apr. 24	Star .....	Somers, R. 23.....	15	Clean .....	Passable .....
Apr. 27	Bristol .....	Bristol .....		Clean .....	Good .....
Apr. 28	Klondike .....	Salem, R. 23 .....	20	Clean .....	Good .....
Apr. 28	Salem .....	Salem .....		Clean .....	Clean .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
None .....	No .....	Good .....	Clean .....	Cream, good	Good .....
Excellent ...	No .....	Passable ...	.....	Cr. old, poor	Being rep'd..
Excellent ...	No .....	Passable ...	.....	Cr. old, poor	Poor floor ..
Passable ...	No .....	Clean .....	.....	.....	Passable ...
Effective ...	No .....	Clean .....	.....	.....	Good .....
Excellent ...	No .....	Clean .....	.....	.....	Good .....
Excellent ...	No .....	Clean .....	Clean .....	Good .....	.....
Good .....	No .....	Good .....	Some rusty..	Some uncl'n.	Good .....
Good .....	No .....	Clean .....	Mostly good.	Good .....	.....
Good .....	No .....	Good .....	Good .....	Good .....	.....
Good .....	No .....	Passable ...	Good .....	Good .....	.....
.....	No .....	Clean .....	Clean .....	Clean .....	.....
Poor .....	No .....	Clean .....	Clean .....	Clean .....	.....
Passable ...	No .....	Good .....	Mostly good.	Mostly good.	.....
Defective ...	No .....	Good .....	Good .....	Good .....	.....
Good .....	No .....	Good .....	.....	.....	Good .....
Good .....	No .....	Good .....	.....	.....	Good .....
Passable ...	No .....	Good .....	Good .....	Good .....	.....
Passable ...	No .....	Good .....	.....	.....	Good .....
Good .....	No .....	Good .....	.....	.....	Good .....
Fairly good.	No .....	Clean .....	.....	.....	Wood floor..
Good .....	No .....	Good .....	.....	.....	Good .....
Good .....	No .....	Good .....	Good .....	Clean .....	Wood floor..
Good .....	No .....	Clean .....	Good .....	Mostly good.	.....
Excellent ...	No .....	Clean .....	Good .....	Clean .....	.....
Passable ...	No .....	Clean .....	.....	.....	Good .....
Good .....	No .....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Clean .....	Good .....	Some sedim't	Good .....
Poor .....	No .....	Passable ...	.....	.....	Not good...
Effective ...	No .....	Clean .....	Good .....	Some sedim't	Good .....
Very good...	No .....	Good .....	Not all good.	Mostly good.	Good .....
Bad .....	Yes .....	Not all clean	.....	.....	Good .....
Good .....	No .....	Clean .....	Good .....	Clean .....	Good .....
Defective ...	No .....	Part unclean	.....	.....	Passable ...
Excellent ...	No .....	Not good ...	Part unclean	P't not good	Not clean ...
Effective ...	No .....	Not clean ...	.....	.....	Passable ...
Excellent ...	No .....	Clean .....	Part uncl'n..	Cr., tainted.	Good .....
Passable ...	No .....	Good .....	.....	.....	Good .....
Defective ...	No .....	Clean .....	Clean .....	Cream, old..	.....
Excellent ...	No .....	Clean .....	Mostly good.	P'rt not good	Good .....
.....	Yes .....	Clean .....	.....	.....	Poor floor ..
Effective ...	No .....	Good .....	Mostly good.	Good .....	Good .....
Effective ...	No .....	Good .....	.....	.....	Good .....
Effective ...	No .....	Passable ...	.....	.....	Pr. eng. r'm.
Effective ...	No .....	Good .....	.....	Cr. s'me of. fi	Good .....
Good .....	No .....	Not clean ...	Mostly good.	Good .....	Poor floor..
Effective ...	No .....	Good .....	.....	.....	Good .....
Poor .....	No .....	Good .....	Some uncl'n.	Some uncl'n.	Passable ...
Effective ...	No .....	Passable ...	.....	.....	Passable ...
Effective ...	No .....	Good .....	Some unfit ..	Good .....	Passable ...
Effective ...	No .....	Good .....	Good .....	Good .....	Good .....
Effective ...	No .....	Good .....	.....	.....	Good .....

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Pr et Over- run.	Condition of Glassware.	Condition of Tester.
		Kenosha Co.—Con.			
1908.					
Apr. 28	Brighton .....	Kansasville .....	12	Clean .....	Good .....
Apr. 28	Woodworth .....	Bristol, R. 31 .....	16.2	Passable .....	Passable .....
June 1 <sup>st</sup>	Brighton .....	Bristol .....	15	Unclean .....	Poor .....
		La Crosse Co.			
Jan. 21	West Salem .....	West Salem .....	20	Good, clean.	Good .....
Feb. 8	Bangor Cry. ....	Bangor .....	21.5	Clean .....	Passable .....
May 26	Newburg's Cor- ners.	Bangor, R. 2.....	19.2	Clean .....	Good .....
June 5	St. Joseph Ridge Sk. Sta.	West Salem, R. 2....			
		Lafayette Co.			
Apr. 6	Gratiot B. & C. Co.	Gratiot .....		Not clean ...	Defective ...
Apr. 23	Blanchardville ...	Blanchardville .....	3.2	Passable ...	Passable ...
		Langlade Co.			
Apr. 21	Spring Brook ...	Antigo .....	18	Not clean ...	Good .....
Apr. 21	Antigo .....	Antigo .....		(Plant just	starting
Apr. 22	Neva .....	Antigo .....	5	Clean .....	Good .....
Apr. 23	Star Cry. Co.....	Antigo .....		Not clean ...	Not good ...
		Manitowoc Co.			
May 12	Saxenburg .....	Mishicott .....	14.9	Good .....	Good .....
May 15	Mishicott .....	Mishicott .....		Good .....	Good .....
May 17	Buckholz .....	Two Rivers .....	13		
		Marquette Co.			
June 11	Mecan .....	Montello, R. 2 .....	16	Clean .....	Good .....
June 12	Montello B. & C. Co.	Montello .....	17	Clean .....	Good .....
		Marathon Co.			
Apr. 3	Eureka .....	Merrill .....	12	Cl'n, n't acc.	Good .....
Apr. 16	Eureka .....	Merrill, R. 1.....	16.6	Good .....	Good .....
Apr. 24	Stettin .....	Marathan City .....		Passable .....	Passable .....
Apr. 25	Stratford .....	Stratford .....	20.6	Clean .....	Passable .....
Apr. 25	Stratford Cream Station for Ripon Prod. Co.	Stratford .....		Passable .....	Good .....
May 27	Marathon County Farmers' Cry. Co.	Athens .....	10	Not clean...	Good .....
May 29	Helendale Farms	Athens .....		Good .....	Good .....
		Monroe Co.			
Feb. 3	Sparta .....	Sparta .....	19	Clean .....	Good .....
Feb. 7	Enterprise Butter Co.	Cashton .....	17	Good .....	Passable ...
Feb. 18	Melvina .....	Melvina .....	16.5	Clean .....	Good .....
Feb. 19	Portland .....	Cashton, R. 2.....	16	Clean .....	Defective ...
Feb. 20	Central Wis. Cry. Co.	Cashton .....	18	Clean .....	Good .....
Feb. 21	Leon Co-op Cry.	Leon .....	18		
Feb. 23	Norwalk Cry. Co.	Norwalk .....	17.6	Clean .....	Passable ...
Feb. 24	Wilton Mut. Co- op.	Wilton .....	17	Clean .....	Good .....
Feb. 25	Central Wis. Cry. Co.	Wilton .....		Passable ...	Good .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Effective ....	No .....	Passable ....	.....	.....	Passable ....
Effective ....	No .....	Clean .....	.....	.....	Poor floor ..
Passable ....	Yes .....	Not clean....	.....	.....	Poor floor....
Effective ....	Yes .....	Good .....	.....	.....	Passable ....
Excellent ...	No .....	Clean .....	.....	.....	Good .....
Passable ....	No .....	Passable ...	.....	.....	Good .....
Passable ....	No .....	Clean .....	Part unclean	Good .....	Good .....
Good .....	No .....	Part not g'd	Some unfit..	Some unfit..	Good .....
Passable ....	No .....	Not all clean	Some uncl'n.	Some uncl'n.	Poor floor...
Effective ....	No .....	Good .....	.....	.....	Good .....
(None to operate.)	No .....	Passable ...	.....	.....	Passable ...
Not good ...	Yes .....	Good .....	Passable ...	Cr. some old	Poor floor...
Defective ...	No .....	Part uncl'n	.....	.....	Passable ...
Effective ....	No .....	Part unclean	.....	.....	Passable ...
Defective ...	No .....	Clean .....	Part faulty..	Mostly good.	Clean .....
Good .....	No .....	Clean .....	Mostly good.	Mostly good.	Good .....
Good .....	No .....	Clean .....	Clean .....	Good .....	Good .....
Effective ....	No .....	Not all clean	.....	.....	Poor floor...
Passable ....	No .....	Good .....	.....	.....	Good .....
Passable ....	No .....	Not all clean	.....	.....	Poor floor...
Effective ....	No .....	Good .....	.....	.....	Good .....
.....	.....	.....	.....	.....	Passable ...
Defective ...	No .....	Passable ...	Some unfit ..	Cream, old..	Good .....
Effective ....	No .....	Clean .....	Clean .....	Passable ...	Good .....
Excellent ...	No .....	Good .....	.....	.....	Passable ...
Effective ....	No .....	Clean .....	.....	.....	.....
Passable ....	Yes .....	Clean .....	.....	.....	Poor floors..
Passable ....	No .....	Clean .....	.....	.....	Passable ...
Passable ....	Yes .....	Passable ...	Mostly good.	Part tainted.	Poor floor...
Excellent ...	Yes .....	Not clean ...	.....	.....	Very poor fr
Excellent ...	No .....	Clean .....	Clean .....	Cr., tainted.	.....
Excellent ...	No .....	Clean .....	Mostly good.	Mostly good.	Good .....
Excellent ...	Yes .....	Clean .....	Good .....	Passable ...	Poor floors..

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Per Cent Over-run.	Condition of Glassware.	Condition of Tester.
1908.					
Monroe Co.—Con.					
Mch. 25	Glendale Co-op. Cry. Co.	Glendale .....	14.8	Clean .....	Good .....
Mch. 31	Leon Valley .....	Leon .....	17	Good .....	Good .....
Apr. 1	Shennington .....	Shennington .....	15	Clean, good.	Passable .....
Apr. 2	Clifton Co-op. Cry. Ass'n.	Kendalls, R. 3.....	17.4	Good .....	Good .....
Apr. 3	Oakdale Co-op. Cry. Ass'n.	Oakdale .....	20.2	Good .....	Good .....
Apr. 4	Leon Co-op. ....	Leon .....	.....	Not clean ...	.....
Apr. 14	Leon Valley .....	Leon .....	16.9	Good .....	Good .....
Apr. 14	Cataract .....	Cataract .....	18	Clean .....	Good .....
May 2	Tunnel City Cry. Co.	Tunnel City .....	.....	Good .....	Good .....
June 15	Leon Co-op Cry...	Melvina, R. 1 .....	19	Clean .....	Good .....
June 22	Norwalk Cry. Co.	Norwalk .....	23	Clean .....	Good .....
June 23	Wilton Co-op. ...	Wilton .....	.....	Clean .....	Good .....
June 24	Dorset Ridge Sk. Station.	Kendall, R. 1 .....	.....	Clean .....	Good .....
June 25	Cold Springs Sk. Station.	Wilton, R. 2 .....	.....	Clean .....	Good .....
June 26	Hoffman Corners Cry. Ass'n.	Kendall, R. 1 .....	17.5	Clean .....	Good .....
Outagamie Co.					
Apr. 9	Potts-Wood Co...	Appleton .....	.....	Good .....	Good .....
Apr. 18	Welcome Cry. Co.	Welcome .....	14	Clean, corr't	Good .....
Apr. 23	Otto & Sons .....	Seymour .....	12	Clean .....	Good .....
May 2	Shiocton .....	Shiocton .....	.....	Good .....	Good .....
June 29	Shiocton .....	Shiocton .....	15	Good .....	Good .....
Ozaukee Co.					
May 6	Grafton .....	Grafton .....	20	Good .....	Good .....
June 6	Riverside .....	Saukville .....	15	Good .....	Good .....
Pierce Co.					
Jan. 28	Exile Sk. Sta....	Plum City .....	17	Clean .....	Good .....
May 20	Gilman Cry. Co.	Spring Valley, R. 2.	16	Clean .....	Good .....
May 20	Spring Val. Cry. Co.	Spring Valley .....	17	Passable ...	Good .....
May 21	Hatchville Co-op. Cry. Co.	Spring Valley .....	16	Clean .....	Good .....
May 21	Elmwood Co-op. Cry. Co.	Elmwood .....	17	Clean .....	Good .....
May 22	Exile Sk. Sta. ..	Plum City .....	.....	Clean .....	Good .....
Portage Co.					
Mch. 6	Empire Cry. Co..	Junction City .....	14	Good .....	Not good ...
June 11	Custer .....	Custer .....	14	Good .....	Good .....
June 11	North Star Sk. Sta.	Rosholt, R. 2 .....	.....	.....	.....
June 11	Ellis Skim Sta...	Custer .....	.....	.....	.....
June 11	Ellis .....	Stevens Point .....	12	.....	.....
Racine Co.					
Jan. 30	Kansasville .....	Kansasville .....	.....	Good .....	.....
Jan. 30	Racine Pure M. Co.	Racine .....	.....	Good .....	Good .....
Jan. 31	Beaumont .....	Kansasville, R. 15..	.....	Good .....	Good .....
Mch. 4	Norway .....	Waterford, R. 3 .....	.....	Passable ...	.....
Mch. 4	Beaumont .....	Kansasville, R. 15..	.....	Good .....	Good .....
Mch. 4	Rochester .....	Rochester .....	.....	Good .....	Good .....
Apr. 7	Caldwell .....	Lake Beulah .....	17	Clean .....	Passable ...
Apr. 15	Dover .....	Burlington, R. 18 ..	17.5	Clean .....	Good .....
Apr. 23	Union Grove .....	Union Grove .....	.....	Clean .....	Good .....
Apr. 24	Yorkville .....	Union Grove, R. 6..	17	Clean .....	Good .....
Apr. 25	Kellogg's Corners	Somers .....	.....	Clean .....	Passable ...

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Passable ....	Yes .....	Clean .....	Clean .....	Pt. not good.	Poor floor...
Effective ....	No .....	Good .....	Some unfit ..	Cr. passable	Good .....
Passable ....	No .....	Poor .....	.....	.....	Good .....
Effective ....	No .....	Clean .....	Good .....	Good .....	.....
Defective ....	No .....	Clean, good.	Mostly good.	Part tainted	Good .....
Excellent ....	No .....	Not clean ...	.....	.....	Passable ....
Good .....	No .....	Good .....	.....	.....	Good .....
Defective ....	No .....	Clean .....	.....	Cream, stale	Poor floor...
Defective ....	No .....	Not all good.	.....	.....	Passable ....
Excellent ....	No .....	Unclean .....	.....	.....	Poor floor...
Excellent ....	No .....	Clean .....	Good .....	Part poor...	Good .....
Excellent ....	No .....	Clean .....	Part unclean	P't not good	Good .....
Bad .....	Yes .....	Clean .....	Part unclean	Good .....	Good .....
Excellent ...	No .....	Clean .....	Good .....	Good .....	Poor floor...
Effective ....	No .....	Clean .....	Part unfit...	Mostly good.	Poor floor...
Good .....	No .....	Mostly good.	Some uncl'n.	Some uncl'n.	Poor .....
Good .....	No .....	Good .....	Some rusty..	Mostly good.	Clean .....
Not good ....	No .....	Clean .....	Good .....	Cr. some old	Clean .....
Good .....	No .....	Good .....	Good .....	Some sedim't	Clean .....
Good .....	No .....	Good .....	.....	.....	Clean .....
Defective ....	No .....	Good .....	Some poor ..	Part faulty..	Good .....
Good .....	No .....	Good .....	.....	.....	Good .....
Passable ....	No .....	Clean .....	.....	.....	Passable ....
Effective ....	No .....	Clean .....	Part unfit...	Part poor...	Good .....
Excellent ...	No .....	Clean .....	.....	.....	Passable ....
Passable ....	No .....	Clean .....	.....	.....	Passable ....
Excellent ...	No .....	Clean .....	Clean .....	Part poor...	.....
Bad .....	Yes .....	Clean .....	Part unclean	Part poor ..	Passable ....
Good .....	No .....	Good .....	Mostly good.	Not all clean	Good .....
Defective ....	Yes .....	Passable ....	.....	.....	Not good ...
Bad .....	Yes .....	Very unclean	.....	.....	Bad floors...
Passable ....	Yes .....	Not all clean	Not all good	Mostly good.	Not clean ...
Passable ....	No .....	Clean .....	Good .....	Good .....	Good .....
Effective ....	No .....	Good .....	.....	.....	Passable ....
Effective ....	No .....	Passable ....	.....	.....	Good .....
Effective ....	No .....	Good .....	Good .....	Good .....	Poor floor...
Effective ....	No .....	Good .....	Good .....	Good .....	Passable ....
Effective ....	No .....	Good .....	Good .....	Good .....	Passable ....
Effective ....	No .....	Good .....	Good .....	Some off flav	Passable ....
Effective ....	No .....	Good .....	Mostly good.	Good .....	Good .....
Effective ....	No .....	Good .....	Good .....	Good .....	Good .....
Effective ....	No .....	Not all good.	Mostly good.	Mostly good.	Passable ....
Effective ....	No .....	Good .....	Good .....	Good .....	Good .....
Effective ....	No .....	Passable ....	Good .....	Good .....	Poor floor...



## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Per cent Over-run.	Condition of Glassware.	Condition of Tester.
<b>Richland Co.</b>					
1908.					
Mch. 8	Hillside .....	Richland Center .....		Good .....	Good .....
Apr. 24	Richland Center..	Richland Center .....		Good .....	Good .....
Apr. 25	Soot Cash .....	Richland Center .....		(Shipping	cream to
Apr. 22	Hillside .....	Richland Center .....		Good .....	Good .....
Apr. 29	Maple Row. Sk. Sk. Sta.	Lone Rock .....			
May 26	Mill Creek .....	Boaz, R. 1 .....	15	Good .....	Good .....
May 26	Sylvan .....	Sylvan .....		Good .....	Good .....
May 28	Viola .....	Viola .....	18	Good .....	Good .....
May 29	Ash Ridge .....	Viola .....	18	Good .....	Good .....
<b>Rock Co.</b>					
Jan. 2	Orfordville .....	Orfordville .....	18	Good .....	Passable .....
Mch. 16	Shurtleff .....	Janesville .....	18	Good .....	Good .....
Mch. 19	White Lily .....	Janesville, R. 8 .....		Clean .....	Good .....
Mch. 19	Afton .....	Afton .....		Clean .....	Good .....
Mch. 19	Willowdale .....	Janesville .....		Not clean .....	Good .....
Mch. 19	Leyden .....	Janesville, R. 7 .....	17	Clean .....	Good .....
Mch. 20	La Prairie .....	Janesville, R. D. .....	16	Clean .....	Good .....
Mch. 20	Emerald Grove .....	Emerald Grove .....		Clean .....	Passable .....
Mch. 20	Harmony .....	Milton, R. 10 .....		Clean .....	Good .....
Mch. 30	Milton .....	Milton .....		Clean .....	Good .....
Mch. 31	Six Corners .....	Milton, R. 11 .....		Clean .....	Good .....
Apr. 16	Sturtevant & Wright.	Beloit .....		Clean .....	Good .....
May 22	Leyden .....	Leyden .....	16	Correct, cl	Good .....
May 22	La Prairie .....	Janesville .....	16	Clean .....	Good .....
May 23	Willowdale .....	Janesville .....	14	Not correct..	Defective .....
June 17	Milton .....	Milton .....		Not clean .....	Good .....
June 24	Clinton .....	Clinton Jct. ....	16	Not clean .....	Passable .....
June 26	Shurtleff Cry. Co.	Janesville .....		Good .....	Good .....
June 26	Avalon .....	Avalon .....		Good .....	Good .....
June 26	Emerald Grove .....	Janesville .....		Good .....	Faulty .....
June 27	Newville .....	Edgerton .....		Part good...	Faulty .....
<b>St. Croix Co.</b>					
Jan. 18	Baldwin .....	Baldwin .....	19.5	Passable .....	Good .....
Mch. 5	Wilson .....	Wilson .....	12.75	Unclean .....	Passable .....
Mch. 27	Wilson Co-op. ..	Wilson .....	14	Passable .....	Good .....
Mch. 28	Hammond .....	Hammond .....		Clean .....	Good .....
May 14	New Richmond ..	New Richmond .....		Clean .....	Good .....
May 15	Star Prairie .....	Star Prairie .....		Clean .....	Passable .....
May 18	Emerald .....	Emerald .....	14.67	Passably cl'n	Good .....
May 23	Glenwood .....	Glenwood .....		Passably, cl	Good .....
May 23	Glenwood .....	Glenwood .....		Good .....	Good .....
June 23	Lone Tree .....	Boardman .....	17	Not clean .....	Passable .....
June 24	Houlton .....	Stillwater, Minn. ....	12	Passably, cl	Passable .....
June 26	Birch Lake .....	New Richmond .....		Passably cl'n	Passable .....
June 26	Stanton Cheese & Cry. Co.	Stanton .....			Faulty .....
June 27	Hersey .....	Hersey .....		Clean .....	Passable .....
<b>Sauk Co.</b>					
May 1	Hill Point .....	Lime Ridge, R. 1. ....	18.5	Good .....	Good .....
May 1	Logansville B. & C. Ass'n.	Logansville .....	17	Good .....	Good .....
May 2	Ward's Corners Sk. Sta.	Reedsburg .....			
May 2	Sandusky Sk. Sta.	Sandusky .....			

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Defective	No	Good	Mostly good.	Passable	Passable
Good	No	Passable	Good	Good	Passable
Blue Valley	Co.,	Chicago, Ill.)	Good	Good	Good
Not good	No	Clean	Good	Good	Passable
Good	No	Good	Good	Good	Good
None	Yes	Old	Good	Good	Clean
Good	No	Good	Good	Good	Good
Good	No	Good	Good	Good	Good
Passable	No	Good	Good	Good	Passable
Effective	No	Clean	Good	Good	Passable
Effective	No	Passable	Good	Good	Poor floor
Effective	No	Good	Good	Good	Passable
Effective	No	Passable	Good	Good	Passable
Effective	No	Good	Good	Good	Good
Effective	No	Good	Good	Good	Passable
Effective	No	Part uncl'n.	Good	Good	Passable
Effective	No	Passable	Mostly good.	Good	Poor
Effective	No	Good	Good	Good	Good
Effective	No	Good	Good	Good	Good
Good	No	Clean	Good	Clean	Good
Passable	No	Fairly good.	Good	Clean	Good
Passable	No	Passable	Good	Clean	Good
Effective	Yes	Part unclean	Good	Clean	Passable
Good	Yes	Very unclean	Good	Clean	Unclean
Good	Yes	Part unclean	Good	Clean	Unclean
Passable	Yes	Clean, poor.	Good	Clean	Passable
Passable	Yes	Part unclean	Good	Clean	Passable
Not good	Yes	Poor, uncl'n.	Good	Passable	Poor, uncl'n.
Effective	No	Good	Good	Good	Good
Poor	Yes	Passable	Good	Good	Bad
Passable	Yes	Passable	Some unfit..	M'stly ta'n't'd	Poor floor
Defective	Yes	Passable	Good	Good	Passable
Effective	No	Good	Good	Good	Good
Effective	No	Passable	Part rusty.	Passable	Passable
Defective	Yes	Passable	Passable	Good	Good
Effective	Yes	Clean	Passable	Cr'm pas'ble.	Good
None	No	Passable	Passable	Passable	Passable
Effective	No	Passable	Passable	Passable	Passable
Passable	No	Good	Passable	Passable	Good
Not good	Yes	Not all clean	Part rusty..	Passable	Not clean
Not good	No	Passable	Passable	Passable	Good
Not good	No	Clean	Passable	Part ov'rripe	Clean
Good	No	Good	Good	Good	Good
Good	No	Good	Good	Good	Good
Poor	Yes	Passable	Good	Good	Poor floor
Passable	Yes	Not clean	Good	Good	Out of rep'r.

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Pr ct Over-run.	Condition of Glassware.	Condition of Tester.
		Shawano Co.			
1908.					
May 20	Galesburg .....	Leeman, R. 31 .....	16	Good .....	Good .....
June 26	Tilleda .....	Tilleda .....	10.	Good .....	Good .....
		SSheboygan Co.			
June 19	Oourtown .....	Sheboygan, R. 11... ..	14.9	Good .....	Good .....
		Taylor Co.			
Apr. 20	Sunrise .....	Medford .....	10	Clean .....	Passable .....
May 1	Medford Cry. Ass'n.	Medford .....	11.5	Not clean ...	Not good ...
May 1	Maple Grove ...	Medford .....	13	Clean .....	Passable .....
May 1	Stanford .....	Medford .....	15	Clean .....	Good .....
		Trempealeau Co.			
Apr. 7	Arctic Springs ...	Galesville .....	20	Good .....	Good .....
Apr. 16	Preston Cry. Co.	Blair .....	18	Good .....	Good .....
Apr. 18	Independence. Cry. Co.	Independence .....	17.2	Clean .....	Good .....
May 11	Osseo .....	Osseo .....	11	Clean .....	Good .....
May 15	Eleva Co-op Cry. Co. ....	Eleva .....	18	Clean .....	Good .....
		Vernon Co.			
Jan. 3	Chaseburg Co-op. Cry. Co.	Chaseburg .....	28	Clean .....	Good .....
Jan. 4	Coon Valley Cry.	Coon Valley .....		Clean .....	Good .....
Mch. 19	Wenry .....	Westby .....		Clean .....	Good .....
May 4	Ontario .....	Ontario .....		Clean .....	Good .....
May 6	Kickapoo Val. Cry. Co.	La Farge .....	16	Clean .....	Good .....
May 7	Valley .....	Valley .....	14.8	Clean .....	Good .....
May 8	Rockton .....	Rockton .....	11.1	Good .....	Good .....
May 23	Stoddard Co-op. B. & C. Co.	Stoddard .....		Good .....	Good .....
May 30	Mt. Tabor Sk. Sta.	Mt. Tabor .....		Clean .....	Good .....
May 30	Trippville .....	Kendall .....	19	Good .....	Good .....
June 2	Red Mound Co-op. Cry. Co.	De Soto .....		Clean .....	Good .....
June 2	Retreat Co-op. Cry. Co.	De Soto .....	19	Clean .....	Good .....
June 3	Genoa Co-op. Cry. Co.	Genoa .....	15	Clean .....	Good .....
June 17	Avalanche Cry. Co.	Viroqua .....	18	Not clean ...	Good .....
June 19	Bloomington Co-op. Cry. ....	Westby, R. 3 .....	13.2	Good .....	Passable ...
June 20	Westby Co-op Cry.	Westby .....	20.5	Good .....	Good .....
		Walworth Co.			
Jan. 7	Little Prairie ...	Eagle .....	18	Good .....	Good .....
Jan. 7	Adams B. & C. Co.	Troy Center, R. 1. .	13	Good .....	Good .....
Feb. 8	H. Marr .....	Whitewater .....	16	Good .....	Good .....
Feb. 24	La Grange .....	Whitewater, R. 4. .		Not clean ...	Good .....
Feb. 25	Heart Prairie ...	Whitewater, R. 5. .	21	Good .....	Good .....
Feb. 27	Troy Center .....	Troy Center .....	17.5	Clean .....	Good .....
Feb. 28	East Troy .....	East Troy .....	14	Clean .....	Good .....
Mch. 5	Spring Valley ...	Burlington, R. 21. .		Not clean ...	Passable ...
Mch. 5	Lyons .....	Lyons .....		Good .....	Good .....
Mch. 5	Springfield .....	Springfield .....	16	Good .....	Good .....
Mch. 6	Elkhorn .....	Elkhorn .....		Clean .....	Good .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Good .....	Yes .....	Good .....	Mostly good.	Good .....	Good .....
Good .....	No .....	Good .....	Good .....	Some not g'd	Good .....
Defective ...	No .....	Passable ...			Not good ...
Effective....	Yes .....	Clean .....			Poor floor ..
Effective....	No .....	Not all clean	Passable ...	Passable ...	Passable ...
Defective ...	Yes .....	Clean .....			Passable ...
Passable ...	No .....	Good .....			Good .....
Excellent ...	No .....	Good .....		Cr., pt. poor.	Good .....
Excellent ...	No .....	Clean .....			Passable ...
Excellent ...	No .....	Clean .....			Good .....
Excellent ...	No .....	Mostly clean	Old .....		Passable ...
Excellent ...	No .....	Clean .....	Part unclean	Part poor ..	Good .....
Excellent ...	No .....	Good .....	Clean .....	Part old.....	Good .....
Excellent ...	No .....	Good .....			Poor floor ..
Passable ...	No .....	Good .....			Poor floor ..
Passable ...	No .....	Clean .....			Passable ...
Good .....	No .....	Clean .....	Clean .....	Cr., s'ne old	Poor floor ..
Good .....	No .....	Clean .....			Passable ...
Effective....	No .....	Clean .....	Mostly good.	Mostly good.	Good .....
Defective ...	No .....	Clean .....			Good .....
Defective ...	Yes .....	Clean .....	Mostly good.	Pt. passable.	Passable ...
Excellent ...	No .....	Clean .....			Good .....
Defective ...	No .....	Clean .....			Good .....
Effective....	No .....	Clean .....	Some rusty..	Some off flav	Passable ...
Defective ...	No .....	Clean .....	Clean .....	Part off fl'v'r	Good .....
Good .....	No .....	Clean .....	Good .....	Passable ...	Good .....
Excellent ...	No .....	Clean .....	Mostly good.	Cr., not good	Good .....
Effective....	No .....	Clean .....	Clean .....	Cream, good	Good .....
Effective....	No .....	Good .....			Good .....
Effective....	No .....	Good .....			Good .....
Effective....	No .....	Good .....			Good .....
Effective....	No .....	Not all clean			Not clean ...
Effective....	Yes .....	Not all clean			Good .....
Effective....	No .....	Good .....	Good .....	Good .....	Good .....
Effective....	No .....	Good .....	Some unfit..	Mostly good.	Good .....
Effective....	No .....	Not clean ...	Some unfit..	Mostly good.	Poor .....
Effective....	No .....	Poor churn..	Some unfit..	Good .....	Passable ...
Effective....	No .....	Good .....			Good .....
Effective....	No .....	Good .....			Good .....

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Pr ct Over-run.	Condition of Glassware.	Condition of Tester.
Walworth Co.— Con.					
1908.					
Mch. 6	Spring Prairie ..	Spring Prairie .....	15	Good .....	Faulty .....
Mch. 7	Peck's Station ...	Elkhorn, R. 6 .....		Acid stained	Passable .....
Mch. 27	Fairfield .....	Darien, R. 2 .....	17.54	Good .....	Good .....
Mch. 28	Darien .....	Darien .....		Good .....	Good .....
Apr. 1	Island .....	Whitewater .....		Clean .....	Good .....
Apr. 1	Reliance .....	Whitewater, R. 5... ..		Passable .....	Poor .....
Apr. 1	Spring Brook ...	Whitewater .....	16	Clean .....	Good .....
Apr. 2	Spring Prairie ...	Spring Prairie .....	13	Clean .....	Poor .....
Apr. 2	Sp. Val. Sanitary Milk Co.	Burlington, R. D... ..		Not clean ...	
Apr. 2	Honey Creek ....	Honey Creek .....		Passable .....	Passable .....
Apr. 12	Sp. Val. Sanitary Milk Co.	Burlington, R. D... ..		Passable .....	Passable .....
Apr. 14	Bloomfield Center	Lake Geneva, R. 1. . .	14	Clean .....	
Apr. 14	North Bloomfield	North Bloomfield ..	17	Clean .....	Passable .....
Apr. 14	Lake View .....	Zenda .....	15	Passable .....	Good .....
Apr. 17	Allen's Grove ...	Allen's Grove .....	16	Clean .....	Good .....
Apr. 17	Star .....	Delavan .....		(Creamery just closed.)	
Apr. 17	East Delavan .....	Elkhorn, R. 2 .....		Clean .....	Good .....
Apr. 17	Walworth .....	Walworth .....		Clean .....	Good .....
Apr. 21	Little Prairie ...	Little Prairie .....		Clean .....	Good .....
May 27	Marr's .....	Whitewater .....	15	Correct, cl.	Good .....
May 28	Island .....	Whitewater, R. D. . .	15	Correct, cl.	Good .....
May 29	Richmond Center.	Delavan, R. F. D. . .	14	Unclean .....	Bad .....
May 29	Town Line .....	Whitewater .....	16	Correct, cl.	Good .....
June 16	Richmond .....	Delavan, R. 1. . . .	13	Bad .....	Very bad ..
June 16	Reliance .....	Whitewater, R. 1. . .		Unclean .....	Passable .....
June 16	So. Sugar Creek ..	Delavan .....	12	Unclean .....	Good .....
June 17	Town Line .....	Whitewater, R. D. . .		Not all clean	Good .....
June 17	Richmond .....	Delavan .....		(Factory closed for	
June 8	Reliance .....	Whitewater .....			
June 16	East Richmond ..	Whitewater, R. 5... ..	17	Correct, cl.	Good .....
June 16	Lake View .....	Geneva .....	13	Unclean .....	Good .....
June 25	Farmers' Cry. Co.	Walworth .....	9.75	Unclean .....	Good .....
Washington Co.					
Apr. 15	Gilt Edge .....	Hartford .....	15.5	Good .....	Good .....
Apr. 29	Gilt Edge .....	Hartford .....		Good .....	Good .....
May 25	Riverside .....	Allenton .....		Good .....	Passable .....
Waukesha Co.					
Jan. 16	Brown St. ....	Waukesha .....	16.5	Good .....	Good .....
Feb. 5	Eagle .....	Eagle .....	22	Good .....	Good .....
Feb. 18	Waukesha .....	Waukesha .....		Good .....	Good .....
Feb. 19	Hartland .....	Hartland .....		Good .....	Good .....
Feb. 22	Oakview .....	Oconomowoc .....	19	Good .....	Good .....
Mch. 23	Crystal Spring ..	Muskego .....	14	Clean .....	Good .....
Apr. 6	Honey Creek ....	Honey Creek .....	16	Clean .....	Passable .....
Apr. 9	Delafield .....	Delafield .....		Clean .....	Good .....
Apr. 9	Oconomowoc .....	Oconomowoc .....		Clean .....	Good .....
Apr. 10	Monterey .....			(Factory closed.)	
Apr. 10	Brown St. ....	Oconomowoc .....	18	Clean .....	Good .....
Apr. 10	Stone Bank Cry. Co.	Nashotah, R. 22... ..	18	Clean .....	Good .....
Apr. 10	North Lake .....	North Lake .....	12	Clean .....	Good .....
Apr. 10	Hartland .....	Hartland .....	19	Clean .....	Good .....
Apr. 10	Silver Lake .....	Oconomowoc .....		Clean .....	Good .....
Apr. 11	Battle Creek ....	Oconomowoc, R. 23. .	15	Clean .....	Good .....
Apr. 21	Eagle .....	Eagle .....	14.2	Clean .....	Good .....
Apr. 21	Jericho .....	Eagle, R. 37 .....		Clean .....	Good .....
Apr. 22	North Prairie ...	North Prairie .....	13	Clean .....	Good .....
May 6	Oak View Dairy Co.	Oconomowoc .....		Clean .....	Faulty .....
May 7	Oak View .....	Oconomowoc .....	18	Correct, cl.	Faulty .....
June 1	Wales .....	Wales .....	16	Clean .....	Good .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Effective....	No	Good	Good	Good	Good
Effective....	No	Good	Good	Good	Passable
Effective....	No	Good	Some unfit.	Some unfit.	Good
Effective....	No	Good	Mostly good.	Good	Passable
Effective....	No	Good			Good
Poor	No	Poor			Bad
Excellent	No	Good			Good
Effective....	No	Good	Good	Good	Good
		Not clean			Not clean
	No	Not all clean			Passable
Good	No	Clean, old			Passable
Effective....	No	Passable			Passable
Effective....	No	Passable			Passable
Poor	Yes	Passable			Poor, uncl'n.
Effective....	No	Good			Passable
Effective....	No	Passable			Poor floor
Poor	No	Passable			Passable
Poor	No	Good			Passable
Excellent	No	Clean			Passable
Passable	No	Some uncl'n.	Good	Clean	Wood floor
Very bad	Yes	Bad		Fairly clean	Bad
Good	No	Clean	Clean	Clean	Bad
Bad	Yes	Bad			Bad
Bad	Yes	Unclean			Bad
Passable	Yes	Unclean			Good
Good	No	Part unclean			Good
Good	No	Clean			Good
	Yes	Vat unclean	Mostly clean	Good	Good
Very bad	Yes	Very unclean			Very unclean
Good	No	Good			Good
Good	No	Good	Many unfit.	Not all good.	Good
Passable	Yes	Good	Mostly good	Mostly good.	Good
Effective....	No	Good			Poor floor
Poor	No	Good	Good	Good	Good
Effective....	No	Good	Good	Good	Passable
Effective....	No	Good	Mostly good.	Good	Passable
Good	No	Good	Mostly good.	Mostly good.	Passable
Effective....	No	Part poor	Mostly good.	Good	Passable
Effective....	No	Clean	Mostly good.		Passable
Excellent	No	Good			Passable
Effective....	No	Passable			Passable
	No				Passable
Effective....	No	Passable			Passable
Effective....	No	Passable			Good
Excellent	No	Passable			Passable
Effective....	No	Good			Good
Effective....	No	Good			Good
Poor	No	Passable			Passable
Poor	No	Good	Good	Good	Good
Effective....	No	Good	Good	Good	Good
Poor	No	Good	Some uncl'n.	Some uncl'n.	Passable
Good	No	Clean	Clean	Clean	Good
Effective....	No	Clean	Good	Clean	Wood floors.
Bad	Yes	Good	Mostly good.	Part faulty	Good

## CREAMERY INSPECTION—Continued.

Date.	Name of Creamery.	Address.	Pr et Over- run.	Condition of Glassware.	Condition of Tester.
Waukesha Co.— Con.					
1908.					
June 2	River Bend .....	Dousman .....	16	Correct, cl..	Passable ....
June 2	Silver Lake .....	Oconomowoc .....	16	Correct, cl..	Good .....
June 2	Battle Creek .....	Oconomowoc .....	12	Correct, cl..	Good .....
Waupaca Co.					
Jan. 17	Ogdensburg .....	Ogdensburg .....	17	Good .....	Faulty .....
Apr. 6	W. E. Carter .....	New London .....	12	Good .....	Good .....
Apr. 24	Ogdensburg .....	Ogdensburg .....	16.88	Good .....	Good .....
Apr. 29	Pigeon River Co- op. B. & C. Co.	Clintonville .....	9	Good .....	Faulty .....
May 27	Weyauwega Co- op.	Weyauwega .....	15.5	Good .....	Good .....
June 4	Nowell .....	New London .....	15	Good .....	Good .....
Waushara Co.					
Apr. 24	W. Plainfield .....	Plainfield .....	16	Good .....	Good .....
May 14	Wautoma .....	Wautoma .....	18	Clean .....	Good .....
Winnebago Co.					
Apr. 4	Frank's .....	Neenah .....	.....	Not clean ...	Good .....
May 26	Richland .....	Oshkosh .....	12.5	Good .....	Good .....
Wood Co.					
Jan. 2	Vesper Sk. Sta...	Mayville .....	.....	Passable ....	Good .....
Jan. 2	Equitable Cry. Co.	Vesper .....	.....	.....	Good .....
Jan. 2	Chambers Cry. Co.	Grand Rapids .....	13	Good .....	Good .....
Jan. 2	Pittsville .....	Pittsville .....	5	Clean .....	Good .....
Jan. 4	Arpin .....	Arpin .....	14	Part unclean	Good .....
May 13	Grand Rapids ...	Grand Rapids .....	13	Good .....	Good .....

CREAMERY INSPECTION—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Good .....	No .....	Good .....	Clean .....	Good .....	Good .....
Passable .....	No .....	Passable .....	Clean .....	Good .....	Good .....
Bad .....	Yes .....	Passable .....	Clean .....	Good .....	Good .....
Good .....	No .....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Good .....	Some unfit..	Some sedim't	Good .....
Good .....	No .....	Good .....	Not all clean	Some off flav	Good .....
Good .....	Yes .....	Not all clean	Good .....	Poor .....	Poor .....
Good .....	No .....	Good .....	Good .....	Clean, old...	Good .....
Excellent....	No .....	Good .....	Good .....	Clean .....	Good .....
Passable .....	No .....	Good .....	Mostly good.	Not all good.	.....
Effective.....	No .....	Clean .....	.....	.....	Good .....
Good .....	No .....	Not all clean	Good .....	Passable ...	Passable ...
Defective .....	.....	Part unclean	.....	.....	Good .....
Effective.....	No .....	Passable ...	.....	.....	Passable ...
Effective.....	No .....	Good .....	.....	.....	.....
Effective.....	No .....	Good .....	.....	.....	Good .....
Effective.....	No .....	Good .....	.....	.....	Good .....
Defective .....	No .....	Part unclean	.....	.....	Passable ...
Good .....	No .....	Clean .....	Not all good.	Good .....	Clean .....



## MISCELLANEOUS INSPECTIONS.

Date.	Name of Creamery.	Address.	Condition of Glassware.	Condition of Tester.
Miscellaneous.				
1908.				
Jan. 3	Borden's Condensed Milk Co.	Kenosha .....	Good .....	.....
Jan. 4	Bowman Dairy Co.	Kenosha .....	Good .....	Good .....
Jan. 17	Burlington Condensing Fac.	Burlington .....	Good .....	Good .....
Jan. 18	Borden's Condensed Co.	Monroe .....	.....	.....
Feb. 21	Van Camp Condensing Co.	Watertown .....	.....	.....
Mch. 2	Burlington Condensing Fac.	Burlington .....	Good .....	.....
Mch. 2	Borden's Cond. Milk Co. (Bottling plant.)	Bassett .....	Clean .....	Good .....
Mch. 17	Janesville Pure Milk Co.	Janesville .....	Clean .....	.....
Apr. 8	Anderson & Wendrick Milk Depot.	Green Bay .....	Good .....	.....
Apr. 17	Walworth Cond. Milk Co.	Walworth .....	Passable ....	Good .....
Apr. 18	Delavan Condensing Fac.	Delavan .....	Good .....	Good .....
May 16	Sixth Ward Dairy	Madison .....	.....	.....
June 1	Beatrice Cream Sta.	De Soto .....	Clean .....	Good .....
June 1	J. D. Bickel, Cr. Sta.	De Soto .....	Clean .....	Good .....
June 2	Victoria Cr. Sta.	Victoria .....	Clean .....	Good .....
June 2 <sup>r</sup>	Walworth Cond. Milk Co.	Walworth .....	Mostly good.	Good .....

MISCELLANEOUS INSPECTIONS—Continued.

Condition of Drainage.	Any bad odor?	Condition of Apparatus.	Condition of Cans.	Condition of Milk in Cans.	Condition of Building.
Effective.....	No .....	Good .....	Good .....	Good .....	Good .....
Effective.....	No .....	Good .....	Good .....	Good .....	Good .....
Effective.....	No .....	Good .....	.....	.....	Good .....
Good .....	.....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Good .....	Good .....	Good .....	Good .....
Good .....	No .....	Clean .....	Good .....	Good .....	Clean .....
Very poor...	Yes .....	Unclean .....	.....	.....	Poor .....
Effective.....	No .....	Good .....	.....	.....	Good .....
Good .....	Yes .....	Passable .....	Mostly good	Some off flav	Passable .....
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....
Being rep'd..	Yes .....	Good .....	.....	.....	.....
		Not all clean	.....	.....	Passable .....

## BARN AND DAIRY INSPECTION.

COUNTY.	BARNs.									COWs.			MILK.		Total No. inspected.
	Light.		Ventilation.			Cleanliness.			Cleanliness.			Well cooled and cared for.	Not well cooled and cared for.		
	Adequate.	Inadequate.	King system.	Fair.	Poor.	Clean.	Passable.	Unclean.	Clean.	Passable.	Unclean.				
Ashland	3	6	9	5	2	2	2	2	7	4	5	9			
Barron	12	12	21	20	1	1	1	1	1	1	1	2			
Brown	10	18	7	21	20	8	6	12	10	26	1	28			
Buffalo	3	3	1	4	1	1	1	1	2	3	6	3			
Chippewa	3	3	2	4	1	3	2	6	6	6	2	6			
Clark	9	5	1	13	15	12	10	8	11	11	2	14			
Columbia	22	1	33	15	15	4	17	10	3	16	19	34			
Crawford	1	1	1	1	1	1	1	1	1	2	1	2			
Dane	37	87	3	48	73	35	48	41	48	33	41	134			
Dodge	6	1	3	1	3	5	2	48	33	5	19	7			
Door	2	1	1	1	1	2	1	2	1	1	1	2			
Dunn	11	9	5	15	1	11	1	5	1	1	1	2			
Eau Claire	16	10	1	4	21	11	10	5	3	15	19	26			
Fond du Lac	10	4	1	12	2	11	3	10	4	14	3	20			
Grant	6	6	1	12	9	1	6	10	4	14	3	14			
Green	3	8	3	8	5	4	5	5	3	8	3	12			
Iowa	3	8	3	8	5	4	5	5	3	11	1	11			
Jackson	11	17	2	1	1	1	1	1	1	1	1	1			
Jefferson	8	3	1	8	2	17	6	5	15	13	3	28			
Juneau	15	21	2	34	1	8	23	9	8	22	11	36			
Kenosha	2	5	1	1	28	14	9	7	4	17	2	30			
La Crosse	2	2	1	4	3	3	2	1	1	5	7	7			
LaFayette	21	27	1	14	33	16	24	16	9	23	45	48			
Manitowoc	1	1	1	1	1	1	1	1	1	1	1	1			
Milwaukee	7	4	3	3	5	8	3	3	4	4	10	11			
Monroe	46	13	12	47	15	26	17	8	29	52	6	59			
Outagamie	14	2	1	15	2	11	3	3	4	9	16	16			
Ozaukee	3	1	1	1	1	1	1	1	1	1	1	1			
Peplin	3	2	3	2	1	2	2	5	1	4	1	5			
Racine	5	5	5	5	5	5	5	5	5	5	5	5			
Richland	5	16	7	14	4	12	4	5	11	5	20	21			
Rock	1	4	5	5	4	1	1	1	1	1	1	5			
St. Croix	18	4	1	16	5	16	4	9	8	5	22	22			
Sauk	4	1	3	1	3	1	3	1	1	4	5	5			
Shawano	18	11	1	8	20	11	12	7	9	14	4	30			
Sheboygan	2	4	6	5	5	1	1	2	3	6	6	6			
Vernon	11	8	10	9	4	15	1	13	5	11	19	19			
Walworth	9	3	3	1	1	1	1	1	2	3	3	3			
Washington	9	10	7	11	9	5	5	2	8	9	12	19			
Waukesha	21	11	1	31	14	14	4	9	4	19	28	32			
Waupaca	47	16	23	39	22	20	21	8	13	40	58	63			
Winnebago	5	1	4	4	4	1	3	1	5	5	5	5			
Wood	392	399	23	233	547	289	324	188	214	249	330	804			

MILK INSPECTION AT CHEESE FACTORIES.

July 11, 1907. Erin Cheese factory, located 7 miles south of Hartford. Manager, M. Fitzgerald, Watertown.

	% fat.	Sp. Gr.
T. B. Manning.....	3.10	1.0317
James Knealy.....	3.10	1.0315
John Walsh.....	3.15	1.0322
Henry Bruce.....	3.50	1.0322
David Mountain.....	3.70	1.0307
Joe Russell.....	3.70	1.0305
John Jeffords.....	3.80	1.0305
Ed. Walsh.....	4.20	1.031
D. W. Mountain.....	3.50	1.031
J. T. Garvy.....	3.20	1.0306
Peter Guilford.....	3.40	1.0315
Tom Jeffords.....	3.40	1.032
Dennis Hanrahan.....	3.20	1.032
Tom Toner.....	4.20	1.030
James Barry.....	4.00	1.031
Wm. Russell.....	3.30	1.032
Jacob Barchart.....	3.40	1.032
Herman Komp.....	3.50	1.032
Wm. Meyer.....	3.60	1.0315
Martin Monroe.....	3.00	1.0325
John Monroe.....	3.30	1.0315
James McNamara.....	4.00	1.0315
Dan Courtney.....	3.20	1.031
Wm. Kiltzen.....	3.70	1.032
James Hickey.....	4.40	1.0318
James Hanrahan.....	3.90	1.031
Chris. Mittlestead.....	4.00	1.0305
Michael Castles.....	3.60	1.031
Wm. Purtell.....	2.75	1.031
John Buckley.....	4.00	1.0325
Dan Buckley.....	3.40	1.031
Holver Sacherson.....	3.80	1.032
James O'Brien.....	3.80	1.031
Pat. Connors.....	3.40	1.0305
John Collins.....	3.10	1.031
John Cavanaugh.....	3.40	1.031
James Knealy.....	3.00	1.0275
Mrs. Garvy.....	*	.....
Mrs. Sullivan.....	3.35	1.0315

\* Rejected, unclean.

July 19, 1901. Cheese Factory located 3 miles north of La Farge. Manager, Albert Holak, La Farge.

	% fat.	Sp. Gr.
Ole Tuhus.....	3.60	1.032
Albert Holak—		
Night's milk.....	3.00	1.025
Morning's milk.....	3.70	1.030
Laurence Fulmer.....	3.60	1.029
M. C. McVey.....	3.80	1.0315
E. D. Evens.....	3.70	1.032

	% fat.	Sp. Gr.
Chas. Brown.....	3.90	1.0315
Grant Marker.....	4.50	1.0315
Ham Cowan.....	3.80	1.031
Chas. Colman.....	3.80	1.0315
Gust Stone.....	3.40	1.0317
Dan Harris.....	3.90	1.032
August Trappe.....	3.80	1.0317
Sharron Holland.....	3.90	1.031
Geo. Roberts.....	3.80	1.0316
Thomas Huffar.....	4.00	1.0317
Norval Morris.....	3.90	1.031
Pearl Brown.....	4.10	1.0315
Frank Slagel.....	4.00	1.0315
Chas. Hopkins.....	3.80	1.0315
Ole Rude.....	3.80	1.0308
A. H. Cowan.....	4.00	1.0312
Joe Thomas.....	.....	Bottle broken

Aug. 17, 1907. Cheese Factory located 2 miles north of Readstown. Manager, Nile Jennings, Readstown.

	% fat.	Sp. Gr.
J. Harris.....	.....	1.031
Dr. Henika.....	.....	1.0308
Grover Green.....	3.60	1.025
M. Robison.....	.....	1.0314
A. Guist.....	4.80	1.0282
Geo. Snider.....	.....	1.031
Frank Kysor.....	.....	1.032
J. Sylabaugh.....	.....	1.0305
W. M. Sylabaugh.....	.....	1.0315
L. Kysor.....	.....	1.031
J. Kysor.....	.....	1.030
M. Wilkison.....	.....	1.0312
A. Harris.....	.....	1.0315
W. Osborn.....	3.30	1.0333
L. O. Thompson.....	.....	1.031
A. Danig.....	.....	1.0303
E. C. Thostruele.....	.....	1.0305
Cal. Cox.....	.....	1.031
J. Green.....	.....	1.0313
Iver Sobde.....	.....	1.0315
O. H. Larson.....	.....	1.0315
B. F. Adams.....	.....	1.0313
D. Haseltine.....	.....	1.0315
Geo. Spencer.....	.....	1.0312
J. Neeley.....	.....	1.031

September 16, 1907. Cheese factory located at Twin Bluffs. Managers, Fitzgerald Bros., Twin Bluffs, Wis.

	% fat.
(Composite samples.)	
Barnet.....	3.8
McCorkle.....	*

	% fat.
Russell .....	4.0
Nourse & Co. ....	4.2
Hewitt .....	3.8
J. L. R. McCollum .....	3.7
D. C. McCollum .....	4.0
R. Parduhn .....	4.0
M. Kuykendall .....	4.0
D. Pauls .....	3.9
F. Reed .....	4.1
Wm. Teeters .....	4.2
C. Strocine .....	4.0
Henry & Welsh .....	3.8
Wm. Keys .....	4.2
Wm. Cunningham .....	4.6
Clyde Welton .....	4.2
Wm. Bleadow .....	4.3
Harris .....	3.9
F. Parduhn .....	4.1
Mrs. Peoples .....	3.8
Wm. Fells .....	4.0
L. Carter .....	4.2
Henry Umbehaum .....	3.9
Chas. Umbehaum .....	4.3
E. Hapgood .....	4.0
Jones & Derve .....	4.2
Lou Pauls .....	4.1
Wm. Brown .....	4.4
Sam Lord .....	4.1
Chas. Hickman .....	4.3
J. Powers .....	5.0
Hines .....	4.5
H. F. Pauls .....	3.8
S. McNally .....	4.1
Chas. Putz .....	4.2
Dan Barrington .....	4.1
Ed. Shauf .....	4.0
Scot Mickle .....	4.7
C. Jones .....	4.5
J. Nolan .....	5.0

\* Bottle broken.

October 11, 1907. Cheese factory located 3 miles east of Juneau. Manager Aug. Dukerschein, Juneau, Wis.

	% fat.	Sp. Gr.
Aug. Dukerschein .....	3.80	1.0315
F. J. Thieme .....	4.10	1.032
W. Schultz .....	4.00	1.0325
Herman Bartel .....	4.40	1.032
Henry Richard .....	4.70	1.0325
Aug. Schwensow .....	3.70	1.0316
Aug. Affeldt .....	4.40	1.0307
Chas. Thieme .....	*	1.0305
Wm. Beyer .....	4.10	1.031
W. Lueck .....	4.20	1.0315
Frank Schmeling .....	3.60	1.031E
Aug. Schwartz .....	4.00	1.0305

, Broken.

October 26, 1907. Cheese factory located at Richland Center. Managers, Burnham & Scott, Richland Center, Wis.

	% fat.	Sp. Gr.
L. E. James .....	4.00	1.033
Frank Sanford .....	4.20	1.032
O. J. Burnham .....	4.00	1.0323
Frank Luenschloss .....	4.60	1.030
F. B. Loque .....	*	.....
B. J. Minett .....	4.20	1.0325
Dave Jacobson .....	4.50	1.0322
Ben Wheaton .....	5.20	1.0345
Clark Miller .....	4.50	1.0325
Robt. Kirkpatrick .....	5.80	1.032
John Slater .....	4.60	1.030
John Sheperd .....	4.20	1.030

	% fat.	Sp. Gr.
J. A. Fry .....	4.40	1.033
Leon Minett .....	4.70	1.032
David Smith .....	4.10	1.032
Wm. Durnford .....	4.50	1.0315
Wm. Akan .....	4.10	1.0335
John Craig .....	4.70	1.0325
M. H. Liek .....	4.90	1.032
Mart. Hilleshein .....	4.50	1.0325

\* Milk returned.

October 29, 1907. Cheese factory located 2½ miles south of Richland Center. Managers, Scott & Burnham, Richland Center, Wis.

	% fat.	Sp. Gr.
J. W. Davis .....	4.40	1.0325
J. H. Hartley .....	4.00	1.0325
Ed. Kintz .....	4.70	1.0330
John Davis .....	4.60	1.0323
F. Starkey .....	4.40	1.033
H. Gillingham .....	4.50	1.0315
Chas. Keys .....	4.80	1.032
O. Howard .....	4.50	1.031
B. Jewell .....	.....	1.031
A. B. Kingery .....	4.20	1.0305
Mrs. M. Davis .....	4.30	1.0325
W. McDugal .....	4.50	1.0317
Ned Kintz .....	4.20	1.033

April 19, 1908. Cherry Hill cheese factory located in town of Rubicon, 6 miles S. W. of Hartford. Manager, John Reed.

	% fat.	Sp. Gr.
Thos. Nelson .....	3.4	1.030
L. Young .....	3.0	1.029
P. J. Weber .....	3.6	1.0305
A. Hurter, morning milk .....	3.8	1.0305
A. Hurter, evening milk .....	**3.2	1.032
N. Klink .....	3.0	1.029
Chas. Lapien .....	3.2	1.030
Ben. Ruschke .....	3.6	1.0305
Geo. Bertz .....	3.1	1.030
F. N. Christensen .....	**	.....
Anton Goetz .....	3.3	1.0295
Joe Sass .....	3.2	1.0295
Aug. Klenst .....	3.5	1.031
Ed. Pockelwald .....	3.2	1.0305
Louis Jahr .....	3.6	1.0305
Frank Redling .....	3.0	1.030
A. J. Hutchinson .....	3.7	1.030
Geo. Klink .....	3.4	1.0305

\* Unclean.

\*\* Unclean, returned.

April 15, 1908. Cheese factory located at Rubicon 3 miles west of Hartford, Wis.

Manager, John Reed, Oconomowoc.

	% fat.	Sp. Gr.
Chas. Zellow .....	3.1	1.0295
Con. Pusch .....	3.5	1.0305
Chas. Pusch .....	3.8	1.030
Casper Horst .....	3.6	1.031
Herman Pusch .....	3.2	1.030
Rudolph Schneider .....	3.3	1.031
Wm. Klink .....	3.4	1.0315
John Horst .....	3.3	1.031
Wm. New .....	3.0	1.0295
Emil Buhrow .....	3.4	1.030
Wm. Hannan .....	3.1	1.0305
John Leicht .....	3.0	1.030
Fred Bohrow .....	3.4	1.029
Peter Jacobi .....	3.6	1.030
Albert Lambrecht .....	3.3	1.030

	% fat.	Sp.	Gr.
Chas. Wittenberg.....	3.5	1.031	
Peter Radschlog.....	3.4	1.031	
Mat. Grinwald.....	3.7	1.031	
Wm. Behringer.....	3.4	1.030	
John Hoerig.....	3.4	1.030	
P. Schladwaler.....	3.0	1.0235	
Chas. Newmann.....	3.1	1.030	
H. Horst.....	3.8	1.031	
Chas. Kuenzi.....	3.6	1.031	
H. Monti.....	3.2	1.031	

\* Not clean.

April 16, 1908. South Star cheese factory located in town of Erin, Washington county, 2½ miles south of Hartford. Manager, John Reed, Oconomowoc, Wis.

	% fat.	Sp.	Gr.
Fred Lenhard.....	3.4	1.0295	
Joe Miller.....	3.5	1.0305	
Paul Kahlschner.....	3.6	1.031	
John Clancy.....	4.0	1.029	
Fred Broys.....	3.5	1.0305	
Nick Fragner.....	3.4	1.030	
Chas. Mittelstadt.....	3.3	1.030	
Wm. Fritz.....	3.3	1.030	
Phil Klump.....	3.8	1.0315	
D. Foote.....	3.6	1.0315	
John Radtke.....	3.9	1.030	
John Fcote.....	3.6	1.033	
Hi. Kump.....	3.1	1.031	
M. Bahm.....	4.0	1.031	

April 17, 1908. Silver Star cheese factory located in town of Mattison, P. O. Embarrass. Managers Krubsack & Gehrt.

	% fat.	Sp.	Gr.
G. Wetzel.....	4.1	1.0315	
T. Saatsck.....	3.0	1.0295	
H. Lisher.....	3.0	1.0325	
F. Frederick.....	4.0	1.032	
H. Krubsack.....	3.6	1.032	
Chas. Bernhagen.....	3.0	1.0325	
A. Krubsack.....	3.4	1.031	
Wm. Anton.....	3.9	1.031	
Wm. Frederick.....	3.7	1.032	
F. Krewald.....	4.0	1.032	
Wm. Hevler.....	3.4	1.0305	
R. Mueller.....	4.0	1.031	
Wm. Krewald.....	4.2	1.032	
H. Gehrt.....	3.7	1.032	
J. Betterson.....	3.1	1.0325	
Jas. Brown.....	3.3	1.032	
H. Textmeyer.....	3.4	1.032	
H. Kiehhoefer.....	3.0	1.032	
H. Ehlert.....	3.4	1.032	
Wm. Meissner.....	3.9	1.031	
Wm. Kellner.....	3.5	1.0325	

April 17, 1903. Oak cheese factory located in town of Rubicon, Dodge Co., 3 miles south west of Hartford. Manager, John Reed, Oconomowoc, Wis.

	% fat.	Sp.	Gr.
Herman Lepien.....	3.4	1.031	
Henry Lepien.....	3.0	1.031	
Mrs. John Hagen.....	3.8	1.030	
Aug. Mante.....	3.4	1.0295	
Chas. Behnke, Sr.....	3.2	1.0305	
Chas. Behnke, Jr.....	3.8	1.0303	
Robert Ferguson.....	3.5	1.0305	
Joe Klink.....	4.2	1.030	

	% fat.	Sp.	Gr.
Phil. Melius.....	3.7	1.0315	
D. Cavanaugh.....	4.0	1.0305	
S. Maher.....	3.7	1.0325	
Frank Monroe.....	3.6	1.030	
Jas. Collins.....	3.0	1.0305	
Wm. Walrabenstein.....	3.2	1.029	

\* Not clean.

April 28, 1908. Rubicon River cheese factory. Hustisford, Wis. Manager, Mike Fitzgerald.

	% fat.	Sp.	Gr.
Ferdinand Lauersdorf.....	3.50	1.0315	
August Uecker.....	3.40	1.0293	
Herman Lehman.....	3.40	1.0312	
Wm. Leitzke.....	3.20	1.0312	
Albert Reichow.....	3.50	1.0314	
Gustav Schultz.....	3.50	1.0322	
Wm. Kucklton.....	3.40	1.0312	
Albert Klemp.....	3.10	1.0322	
Gottlieb Grimm.....	3.40	1.0312	
Herman Grimm.....	3.80	1.030	
Herman Metzgorf.....	3.60	1.0311	
Paul Lehman.....	3.40	1.0312	

April 29, 1908. Northwestern cheese factory. Hartford. Manager, Aug. F. Westphal, Hartford.

	% fat.	Sp.	Gr.
Ed. Roethe.....	3.20	1.0315	
A. Spaeth.....	*		
Frank Rettler.....	3.60	1.0315	
Albert Wolf.....	4.20	1.0325	
John Marks.....	3.60	1.0313	
Henry Eaker.....	4.10	1.0314	
Aug. Schauf.....	4.00	1.0234	
Albert Schroeder.....	3.40	1.0324	
Nic Thorn.....	3.60	1.0325	
Aug. Steinkie.....	3.40	1.0325	
Barnie Hegg.....	3.69	1.0295	
John Lacks.....	3.50	1.0315	
Geo. Eifert.....	3.60	1.0295	
Wm. Kronk.....	3.80	1.0315	
Anton Borlen.....	4.00	1.0325	
John Steinkie.....	3.80	1.0325	

\* See chemist's report.

April 29, 1908. Steinwood cheese factory located in town of Colby. Manager, J. F. Steinwood, Colby.

	% fat.
A. Steinwand.....	3.1
Julius Kops.....	3.2
Wm. Buchholz.....	3.4
John Aller.....	3.3
Mrs. Span.....	3.1
Math. Aller.....	2.8
Wm. Loes.....	3.6
M. Engedinger.....	3.2
Victor Trane.....	3.2
John Orth.....	3.2
Wm. Baumgart.....	3.6
Chas. Resler.....	3.2
John Schur, Jr.....	3.4
John Schur, Sr.....	3.1
A. La Mont.....	3.8
Weller Bros.....	3.8
Chas. Hertz.....	3.2
Albert Tews.....	3.5
Wm. Kowalk.....	3.5
St. Teporten.....	3.0
A. F. Minett.....	3.6
Fr. Siedler.....	3.7
F. O. Chase.....	3.1

April 30, 1908. Pleasant Hill cheese factory located in town of Hartford. Manager, Fred Uebele, Hartford.

	% fat.	Sp. Gr.
Fred Uebele .....	3.40	1.0315
Fred Deming .....	3.60	1.0322
Klink & Bell .....	3.60	1.0312
Albert Boyd .....	3.80	1.0312
F. G. Uebele .....	3.60	1.0302
Wm. Schroeder .....	3.60	1.0312
Frank Heppner .....	3.80	1.0312
Charlie Rux .....	3.70	1.0312
Reinhold Daehn .....	3.60	1.0302
Charlie Brose .....	* .....	.....
Gustav Fetzlaff .....	3.60	1.0313
George Loos .....	3.10	1.0315
Herman Sell .....	3.60	1.0295
Fred Meitzel .....	3.80	1.0295
Wm. Behnke .....	3.60	1.0315

\* See chemist's report.

April 30, 1908. Schultz cheese factory located in town of Little Black. Manager, Aug. W. Schultz, Medford.

	% fat.	Sp. Gr.
V. Pueshner .....	3.4	.....
J. Mortzka .....	3.2	.....
Joe Langtan .....	3.1	.....
W. Peissig .....	3.0	.....
H. Peissig .....	3.3	.....
J. Pueshner .....	3.2	.....
C. Ranchfus .....	3.2	.....
R. Sheltz .....	3.8	.....
J. Biel .....	3.1	.....
C. Richter .....	3.2	.....
F. Pape .....	3.1	.....
M. Habermeyer .....	3.2	.....
L. Bisson .....	3.5	.....
Frank Fritche .....	3.1	.....
H. Ludwig .....	3.4	.....
J. Paul .....	3.0	.....
Joe Langton .....	* .....	.....
H. Peissig .....	3.2	1.030
J. Biel .....	3.0	1.031
T. Paul .....	3.6	1.030
Frank Fritche .....	* .....	.....
J. Paul .....	3.1	1.0314

\* See chemist's report.

May 2, 1908. Mapleton cheese factory, 6 miles north of Oconomowoc. Manager Mike Fitzgerald, Oconomowoc.

	% fat.	Sp. Gr.
Mike Flanagan .....	3.10	1.0315
Fred Mainz .....	3.10	1.0312
S. W. Counsel .....	3.40	1.031
Ed. Dalton .....	3.40	1.0315
John Kenny .....	3.80	1.032
Jas. Bonney .....	3.40	1.031
Thos. Delaney .....	3.20	1.032
Bartlett Kearns .....	* .....	.....
John Fitzgerald .....	3.20	1.030
Louis Pagenhoff .....	3.20	1.031
Wm. Peebles .....	3.50	1.031
John Grause .....	3.40	1.031
John Agrow .....	3.60	1.035
Louis Skelbrid .....	3.10	1.031
Pan Clemans .....	3.10	1.032
Wm. Byrnes .....	3.50	1.030
M. Heathcote .....	3.80	1.032

\* See chemist's report.

May 4, 1908. Miller cheese factory located in town of Hortonville, Hortonville P. O. Manager, Ray Miller, Hortonville.

	% fat.	Sp. Gr.	Comp. Sam- ples.
L. Hidde .....	3.2	1.032	3.2
A. Lehman .....	3.5	1.032	3.5
J. Mulroy .....	3.4	1.032	3.4
E. Westphal .....	.....	.....	3.8
T. McDermott .....	3.8	1.0315	3.8
O. Elmsner .....	3.6	1.031	3.4
Foy Bros .....	3.4	1.032	3.4
Wm. Rushman .....	3.5	1.032	3.3
L. Rolfs .....	3.8	1.032	3.8
P. Foy .....	3.2	1.032	3.2
H. Rolfs .....	3.2	1.032	3.0
E. Madaganz .....	3.5	1.032	3.6
R. Voltz .....	3.8	1.032	3.9
F. Rice .....	3.3	1.032	.....
H. Lehman .....	3.9	1.032	3.7
W. Lathrop .....	.....	.....	4.0
W. Snook .....	4.0	1.032	3.7
J. Hoge .....	4.4	1.0305	.....
H. Rushman .....	3.9	1.0315	4.0

May 8, 1908. Cheese factory located in town of Hoard, 5 miles N. W. of Curtiss. Manager, E. Laabs, Curtiss.

	% fat.	Sp. Gr.
H. Radke .....	3.5	1.032
Aug. Dunow .....	3.8	1.031
Wm. Pondrie .....	3.5	1.0315
John Krawshaw .....	4.1	1.030
Andrew Hoverson .....	3.7	1.030
Fred Dunow .....	3.9	1.0305
Wm. Ihlenfelt .....	3.6	1.031

May 9, 1908. Cheese factory, Curtiss. E. Laabs, Curtiss.

	% fat.	Sp. Gr.
F. Gisch .....	4.2	1.032
R. Martin .....	4.3	1.031
H. Wachsmuth .....	4.0	1.030
O. Janke .....	3.0	1.031
N. Johnson .....	3.8	1.032
R. Schoeneman .....	3.6	1.0303
E. Jakes .....	4.4	1.030
J. Hoge .....	4.4	1.0305
E. Patitz .....	3.1	1.032
H. Orloff .....	4.0	1.0305
Mrs. Kraut .....	3.9	1.031
Wm. Koffernus .....	3.6	1.0295
F. Thieme .....	3.6	1.030
G. Kind .....	3.6	1.0312

May 10, 1908. Shaw Creek cheese factory. Beaver Dam. Manager, Samuel Indermuelle, Beaver Dam.

	% fat.	Sp. Gr.
Frank Genrich .....	3.80	1.032
Bernhart Niehoff .....	3.30	1.0314
Edward Clason .....	3.80	1.0314
Frank Hasse .....	3.10	1.0299
John Lanth .....	3.00	1.0322
Herman Krueger .....	3.00	1.0318
John Schmidt .....	4.00	1.031
H. M. Brown .....	3.60	1.0314
Ben. Babcock .....	3.20	1.0314
John Huth .....	3.60	1.0316
Julius Loock .....	3.30	1.0306
Aug. Koehler .....	3.40	1.0311
N. Evans .....	3.60	1.0319
Herman Derre .....	3.40	1.0317
Wm. Hoffman .....	3.00	1.0319
Wm. Wolenburg .....	3.80	1.032

May 11, 1908. Sunny Side cheese factory, Burnett Junction P. O., 6½ miles N. of Burnett Junct. Samuel Indermuehle, Beaver Dam.

	% fat.	Sp. Gr.
Emil Zilish.....	3.10	1.0318
Adolph Zilish.....	4.00	1.0306
Fred Linde.....	3.40	1.0316
John Kuehn.....	3.60	1.0308
Gottfried Bolzieus.....	3.70	1.0290
James Kenedy.....	3.10	1.0312
Chas. Krueger.....	3.20	1.0314
Chas. Werner.....	3.20	1.0314
Wm. Nuemann.....	3.20	1.0316
John Marlefskie.....	4.00	1.0290
Wm. Steinhaus.....	3.50	1.0312
John Messer.....	3.70	1.0316
Christ. Brandenburg.....	3.60	1.0311
Henry Wilhelm.....	4.10	1.0307
Jacob Rex.....	3.20	1.0318
Mrs. Bernt.....	3.30	1.0315
Carl Ulrich.....	3.60	1.0308
John Hueblne.....	3.40	1.0316
Ernst Beyer.....	3.40	1.0312
Aug. Hartwech.....	3.30	1.0314
Gus Schindel.....	3.40	1.0314

May 13, 1908. Kelley Hill cheese factory, P. O. Mt. Vernon, located in the town of Spring Dale, 8 miles S. W. of Vernon, Manager, Herman Henkel, Mt. Vernon.

	% fat.	Sp. Gr.
Ed Erickson.....	3.40	1.0305
Herman Henkel.....	3.30	1.0315
Carl Messerschmidt.....	3.80	1.0315
C. Bringold.....	3.50	1.0305
M. Marty.....	*3.50	1.0315
Wm. Kollath.....	*3.20	1.0315
Ray Baird.....	3.80	1.0305
H. Riggi.....	4.60	1.031
H. Jones.....	*3.85	1.0315
H. Lust.....	*3.20	1.032
John Herman.....	*4.20	1.031
Wm. O'Connor.....	3.40	1.031
K. Murkey.....	3.60	1.0315
Mrs. Braeder.....	3.60	1.031

\* Not clean.

Note.—Wisconsin curd test made of these samples.

May 14, 1908. Grass Lake Cheese factory, P. O. Belle Plaine, located in town of Belle Plaine. Manager, Chas. Raach.

	% fat.	Sp. Gr.
Wm. Ratzlaff.....	4.2	1.030
F. Daegner.....	4.0	1.032
Aug. Hoefls.....	3.7	1.0325
J. Niehouse.....	4.6	1.031
Chas. Kuhn.....	4.4	1.032
Chas. Raasch.....	4.2	1.032
A. Strilbs.....	4.4	1.0321
E. Wolfe.....	4.3	1.032
F. Koehler.....	4.6	1.031
W. Varphal.....	4.7	1.031
J. Utke.....	4.0	1.030
A. Winkler.....	4.2	1.031
R. Karpinsky.....	4.4	1.032

May 15, 1908. Wolf River Cheese factory, P. O. Embarrass, located in town of Waukchon. Manager, David Meissner.

	% fat.	Sp. Gr.
Fred Otto.....	3.8	1.0295
H. Bratz.....	4.3	1.031
Wm. Bray.....	3.7	1.032

	% fat.	Sp. Gr.
H. Buyer.....	4.1	1.031
Fred Kuhn.....	3.6	1.0315
C. F. Groslick.....	4.2	1.031
H. F. Bratz.....	4.0	1.032
Chas. Rush.....	4.4	1.031
Albert Bluenke.....	3.2	1.031
Aug. Helling.....	3.9	1.031
Otto Feltz.....	4.0	1.032
Julius Splitgerber.....	3.4	1.0325
Wm. Rung.....	3.9	1.032
Otto Foesch.....	3.3	1.033

May 19, 1903. Kraus Cheese factory, located in town of Monroe, 4 miles northwest of Monroe. Manager, Nic Schmid.

	% fat.	Sp. Gr.
Nick Schmid.....	3.50	1.0315
Christ Roth.....	3.80	1.031
Geo. Buehl.....	3.60	1.032
B. Kraus.....	3.50	1.0315
John Rottenbuehler.....	4.05	1.031
Chas. Goechs.....	3.80	1.031
B. Korn.....	3.10	1.0315
B. Bacon.....	3.35	1.031

May 22, 1908. Little Willow Cheese factory, located in town of Ithaca, 5 miles east of Richland Center. Manager, Fred Walker.

	% fat.	Sp. Gr.
O. Schoonover.....	3.7	1.032
A. Misslich.....	3.6	1.0325
Otto Faga.....	3.5	1.033
Wm. Howard.....	3.5	1.032
E. McNamar.....	3.8	1.032
Wm. Davis.....	3.5	1.031

May 23, 1903. Butternut Cheese factory, located in town of Willow, 3 miles south of Loyd. Manager, Scott Warren.

		Sp. Gr.
F. Seaman del.....		1.032
M. Jewett.....		1.032
Lou Grassman.....		1.032
M. Squires.....		1.0294
J. Draught.....		1.0323
Mrs. Hanold.....		1.033
M. McDonough.....		1.0315
C. Brown.....		1.0333
Ed. Sippy.....		1.0323
W. Quackenbush.....		1.0334
W. Salisbury.....		1.0322
B. Marshall.....		1.0318
C. Grassman.....		1.032
E. Holtz.....		1.032
Pert Thompson.....		1.034
Pert Hart.....		1.032
Carl Herson.....		1.0333
Geo. Butts.....		1.0315
Thomas Collins.....		1.0333
L. M. Hatch.....		1.0335
Bruce McNurlin.....		1.0324

May 26, 1908. St. Joseph Ridge Cheese factory, located in the town of Washington, 11 miles southwest of Bangor. Manager, N. Arenz.

	% fat.	Sp. Gr.
J. Hundt.....	3.6	1.031 3.2
M. Meyer.....	3.0	1.032 2.8
J. Hanson.....	3.4	1.0325 3.3
P. Hass.....	3.2	1.035 3.2
N. Arenz.....	3.6	1.031 3.3



C. Hilke .....	3.1	1.032	3.2
L. Strittmater .....	3.9	1.0315	3.7
T. Krefel .....	3.7	1.0318	3.3
W. Hilke .....	3.6	1.032	3.6
C. Will .....	3.8	1.031	3.4
M. Neisen .....	3.5	1.032	3.3
G. Strittmater .....	3.5	1.032	3.4
E. Cornell .....	3.6	1.0295	3.2
A. Mekshowsky .....	3.8	1.0315	3.6
J. Mekshowsky .....	3.0	1.032	3.2

May 27, 1908. Walnut Grove Cheese factory located in town of York, 7 miles east of Blanchardville. Manager, J. Paulson.

	% fat.	Sp.	Gr.
E. Rood .....	3.80	1.032	
P. Dish .....	*4.00	1.0315	
J. Stauffacher .....	*3.30	1.0325	
J. Paulson .....	3.80	1.032	
A. Lunda .....	3.70	1.0325	
O. Agen .....	*3.20	1.0315	
H. Hanson .....	3.15	1.0315	
N. Thompson .....	3.40	1.0325	
Mrs. Stewart .....	*3.10	1.0305	
A. Jackson .....	*3.50	1.0325	
Mrs. Bleiler .....	*3.40	1.032	
E. Loberg .....	*3.60	1.032	
J. Moe .....	*3.80	1.0315	

\* Not clean.  
Note.—Wisconsin curd test made of these samples.

May 27, 1908. Addison Cheese factory, located in town of Addison, Allenton P. O., Washington county. Manager Fred Sette.

	% fat.	Sp.	Gr.
Anton Vogel .....	3.90	1.031	
Andrew Vogel .....	4.20	1.0312	
Albert Benkler .....	3.67	1.032	
Henry Batzlen .....	3.70	1.0324	
Mrs. Elizabeth Batzlen .....	4.50	1.032	
Henry Gundrum .....	3.70	1.0293	
Louis Gundrum .....	*		
Albert Gundrum .....	3.50	1.0316	
John Gundrum .....	3.10	1.0315	
Henry Vogel .....	3.30	1.0315	
August Renk .....	3.40	1.0314	
Wm. Schmidt .....	3.80	1.0314	
Wm. Pleuffer .....	3.60	1.032	
Emil Derge .....	3.70	1.032	
Wm. Roggenbauer .....	3.30	1.031	
Anton Sauer .....	3.70	1.032	
Louis Kuhant .....	*		
Mrs. R. Schelling .....	3.70	1.0315	
Louis Gundrum .....	4.60	1.032	

\* See chemist's report.

June 1, 1908. Jenny Cheese factory, located in town of Clarno, 5 miles southwest of Monroe. Manager, John Kaeser.

	% fat.	Sp.	Gr.
H. Bast .....	3.00	1.0315	
C. Kuhnke .....	3.30	1.031	
Wm. Bomering .....	3.50	1.0315	
J. J. Kubly .....	3.20	1.031	
H. Anderson .....	3.60	1.0315	
Wm. Carter .....	3.00	1.0325	
John Vogel .....	3.30	1.032	
P. Figl .....	3.30	1.0305	
Fr. Beach .....	3.70	1.032	

	% fat.	Sp.	Gr.
G. Campbell .....	3.15	1.0325	
E. East .....	4.20	1.031	
Mr. Hoffman .....	3.50	1.032	

June 4, 1908. Roger Creek Cheese factory, located in town of Thorp. Stanley P. O. Manager, W. Fery.

Will Ogle .....	3.5	1.0323	
J. A. Hill .....	4.4	1.0322	
O. E. Warner .....	4.0	1.032	
F. Phillips .....	3.9	1.0326	
E. S. Starks .....	3.8	1.0318	

Martin Ignasials .....	3.4	1.0333	
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June 4, 1908. La Crosse Cheese factory, located in town of Greenfield. Manager, Casper Andregg.

	% fat.		
Casper Andregg .....	3.4		
P. J. Eggler .....	3.4		
E. Raesler .....	3.2		
H. Raesler .....	3.0		
Henry Freehoff .....	3.2		
J. Gronemus .....	3.5		
Otto Nicoll .....	3.5		
Wm. Roelick .....	3.3		
August Martin .....	3.8		
Edward Meyer .....	3.3		

June 7, 1908. Pleasant Hill Cheese factory located in town of Eagle, 4 miles north of Muscoda. Manager, W. F. Miller.

	% milk fat.	% fat. comp. samples.
Theo. Schaffer .....	3.6	3.4
Chas. Kinyon .....	...	3.4
Ralph Wright .....	2.9	3.2
John Honer .....	3.5	3.4
John Cosgrove .....	3.8	3.5
Geo. Casey .....	3.4	3.4
Henry Gies .....	3.4	3.3
Emery Miller .....	...	3.7
Byron Case .....	3.6	3.8
Anton Stanczyk .....	3.5	3.5
Arthur Wilson .....	4.0	3.7
Ed. Sharp .....	...	3.4
Anton Stadele .....	3.5	3.3
Chas. Wait .....	3.7	3.7
James Lewis .....	...	3.2
O. B. Recob .....	4.2	3.3

June 13, 1908. Blanchard Cheese factory, located in town of Blanchard and city of Blanchardville. Manager, E. Regez.

	% fat.	Sp.	Gr.
R. Lamb .....	3.55	1.032	
W. F. Backer .....	3.65	1.0295	
Wahl & Baker .....	3.60	1.0315	
Wm. Korupp .....	3.89	1.0305	
Ole Thompson .....	3.55	1.032	
W. Million .....	3.70	1.031	
A. Brew .....	3.45	1.0315	

June 16, 1908. Calamine Cheese factory, located in town of Willow Spring, Calamine, P. O., La Fayette county. Manager F. Schenkel.

	% fat.	Sp.	Gr.
P. F. McKernan .....	4.00	1.032	
J. Stauffacker .....	3.70	1.031	
J. Thoman & Co. ....	4.00	1.0325	
F. Delan .....	3.10	1.032	
Morning's milk .....	3.80	1.0315	

	% fat.	Sp. Gr.
J. Fowley .....	3.70	1.031
Ch. Ruehle .....	3.35	1.0325
Morning's milk .....	3.90	1.0325
E. Smith .....	3.15	1.032
J. Mylor .....	3.40	1.032
Morning's milk .....	3.90	1.031
M. Schmid .....	3.35	1.031
D. McKillip .....	3.10	1.0325
Morning's milk .....	3.50	1.031

June 15, 1908. Town Line Cheese factory, located in town of Juneau, Juneau, P. O., Dodge Co. Manager, Ray Lovell.

(Morning delivery.)

	% fat.	Sp. Gr.
Robert Krahn .....	3.10	1.031
Frank Callahan .....	3.50	1.0316
Frank Weiss .....	3.70	1.0315
Robert Steffin .....	3.00	1.0318
John Key .....	3.70	1.0318
Thomas Maher .....	3.40	1.0316
Otto Tesch .....	3.40	1.0290
Wm. Seagert .....	3.50	1.0298
Wm. Radke .....	3.40	1.0290
Henry Pellack .....	3.10	1.0238
Frank Schmidt .....	3.10	1.280
Robert Runpach .....	3.00	1.0319
Louis Bohnert .....	3.70	1.032

June 19, 1908. Horicon Brick Cheese factory, Horicon, P. O. Manager, E. C. Wrucke.

(Evening delivery.)

	% fat.	Sp. Gr.
Winter Zimmermann .....	3.90	1.0388
Luck Thron .....	3.90	1.0316
Wm. Bramer .....	4.40	1.032
Herman Sell .....	4.00	1.0318
Chas. Zuehlke .....	3.40	1.0316
Albert Keup .....	3.40	1.0304
Frank Weber .....	3.60	1.0313
Wm. Dornfeldt .....	3.10	1.032
Frank Dewitz .....	3.00	1.0374
E. C. Wrucke .....	3.70	1.0290
Wm. Marquardt .....	3.30	1.0314
Phil Keopsell .....	3.40	1.0316
Fred Pufahl .....	3.20	1.032
Wm. Heemann .....	3.20	1.0318
Wm. Steuber .....	3.20	1.290
J. T. Herrig .....	4.00	1.031
Wm. Schildt .....	3.10	1.032
Albert Kehrt .....	3.60	1.0318
Aug. Bozda .....	4.40	1.0318
Geo. Illig .....	3.10	1.0322
Frank Kohrt .....	3.70	1.0290
Paul Mueller .....	3.30	1.0316
Fred Erdmann .....	3.40	1.0318
Albert Stahlhoff .....	3.60	1.0317
Aug. Neitzel .....	3.60	1.032

June 22, 1908. Durnferd Cheese factory, located in town of Akan, 4 miles west of Richland Center. Manager, F. Durnferd.

	Sp. Gr.
John Craig .....	1.032
F. Durnferd .....	1.032
Will Aken .....	1.0315
Rnn Draer .....	*1.032
Walter Perry .....	1.0315
Frank Miller .....	1.0313
Frank Russel .....	1.0315
Alex. Craig .....	1.032
Marvin Hillstine .....	1.032
M. H. Liek .....	1.0315
Ole Draper .....	1.032

June 24, 1908. Buck Creek Cheese factory, located in town of Rockbridge, 8 miles north of Richland Center. Manager, Ned Brewer.

	Sp. Gr.
D. G. Anderson .....	*.....
Ed. Huffman .....	1.032
Abe Anderson .....	1.032
Thos. Joyce .....	1.032
Mrs. Thompson .....	1.0306
Geo. Brewer .....	1.032
M. B. West .....	1.0325
John Kidd .....	1.031
Frank Anderson .....	1.0322
Stanley Hunt .....	1.0316
Wm. Tracy .....	1.031
W. Chesmore .....	1.032
J. C. Fogo .....	1.305
John Marshall .....	1.032
Andrew Bannister .....	1.0325
Chas. Moore .....	1.032
Marion Poole .....	1.032
Lou Thompson .....	1.0308
Robert Long .....	1.0325
Henry West .....	1.030
Wm. Doudna .....	1.0315
Hannah Ford .....	1.0323
Art. Banker .....	1.0315
Albert Thompson .....	1.0306

\* Milk rejected.

June 25, 1908. Lower Ash Creek Cheese Factory, Located in town of Orton, 6 miles southeast of Richland Center. Ben Radel, Manager.

	Sp. Gr.
H. J. Demmer .....	1.031
Allen Adams .....	1.032
Wm. Emshoff .....	1.0325
H. Ehmshoff .....	1.031
Geo. Radel .....	1.031
Wm. Segrist .....	1.032
Frank Demmer .....	1.0325
Emil Bladeau .....	1.0325
E. G. Mayfield .....	1.0315
W. F. Keifer .....	1.032
Frank Shedery .....	1.0305
Percy Emerson .....	1.0325
J. C. Keller .....	1.032
Fred Sennaka .....	1.0315
Chas. Friday .....	1.032
Cal. Beger .....	1.032
Geo. Hanold .....	1.031
J. H. Persinger .....	1.032
Robert Clemens .....	1.0322
C. C. Flamme .....	1.032
S. M. Hole .....	1.0325
Lew. Pugh .....	1.0318

June 26, 1908. Muscoda Cheese Factory, located in town of Muscoda, 2 miles southeast of Muscoda. A. C. V. Elston, Manager.

	Sp. Gr.
M. Horner .....	1.031
Frank Posnichal .....	1.032
John Horioh .....	1.0315
Henry Harms .....	1.032
G. Moran .....	1.0314
Joe Sickbart .....	1.0325
Bruce McAntyre .....	1.0324
J. P. Bremmer .....	1.0315
Jno. Efinger .....	1.032
A. C. V. Elston .....	1.0315
John Kurtz .....	1.032
Frank Kolar .....	1.032
John Boek .....	1.0315

	Sp. Gr.
Wm. Bock .....	1.0315
Wm. Nahlev .....	1.0325
Phil Moischka .....	1.032
Wm. Krouse .....	1.0315
Henry Paefenroth .....	1.0315
John Schlump .....	1.0324
Joe Bremmer .....	1.0305
C. Krouse .....	1.0315
Adam Shiddes .....	1.0315

	Sp. Gr.
J. J. Henkel .....	1.0305
Aug. Rux .....	1.0322
Joe Jonas .....	1.0335
Wm. Galler .....	1.0325

June 30, 1908. Hub City Cheese Factory, located in town of Henrletta. Wm. Waddell, Manager.

June 27, 1908. Prairie Cheese Factory, located in town of Pulaski, 3 miles east of Muscoda. Chas. Kremmer, Manager.

	Sp. Gr.
C. Kraak .....	1.032
M. Schneider .....	1.031
Wm. Thiede .....	1.032
A. Schneider .....	1.0315
Wm. Kraak .....	1.0315
John Rux .....	1.0325
A. Howland .....	1.031
F. Knitz .....	1.033
F. Beran .....	1.0312
John Frase .....	1.0315
C. Lange .....	1.0325
Wm. Gutweller .....	1.0315
Jno. Gutweller .....	1.0315
A. N. Randall .....	1.0318
John Hartwick .....	1.0327
John Muller .....	1.0315
Juds Miller .....	1.0315
F. Young .....	1.0315

	fat.	Sp. Gr.	% fat. comp. samples.
Ellen Clark .....	3.8	1.032	3.6
Dan Britts .....	4.0	1.0325	3.8
R. E. Snow .....	3.7	1.032	3.7
James Turgeson ..	4.0	1.032	3.5
Jas. Sugden .....	4.7	1.032	4.4
Mrs. Thos. Ryan ..	4.1	1.032	3.6
R. W. Sutton .....	3.8	1.0325	3.8
Joe Stevens .....	4.3	1.032	4.0
M. J. Dixon .....	4.0	1.0315	3.6
P. H. Boyle .....	4.0	1.033	3.6
L. H. Huffman .....	3.8	1.032	3.5
Levi Good .....	3.9	1.033	3.7
Vick Snow .....	4.0	1.031	3.5
D. W. Huntington ..	.....	.....	3.7
John Mellen .....	3.8	1.033	3.5
Frank Cockroft ..	4.0	1.0325	4.0
M. J. Ryan .....	3.6	1.033	3.8
Frank Sugden .....	4.4	1.0315	4.0
J. Klingerman .....	4.2	1.032	3.8
W. Keens .....	3.6	1.032	3.7
Dan Lynch .....	3.2	1.032	3.6
Ella Robinson .....	3.0	1.0325	4.4

## MILK INSPECTION AT CREAMERIES.

Jan. 14, 1908. Rock River Valley Creamery, located in town of Aztalan, 1 1/4 miles west of Johnson's Creek. Manager, Wesley Garlock.

	% fat.	comp.	samples.
William Mautz....	4.	1.0315	3.8
Frank Baker .....	.....	.....	3.8
Henry Leighman..	3.9	1.0312	3.8
Ferd Woolin ....	4.1	1.0312	3.8
Peter Kohler ....	3.8	1.032	3.9
August Wadler ..	3.2	1.031	3.
C. Sadean .....	.....	.....	3.2
Mrs. Brindle .....	.....	.....	3.6
Henry Waltmate ..	.....	.....	3.7
V. Gritzbb .....	.....	.....	3.7
Herman Woolin...	3.7	1.032	3.4
Henry Emist .....	3.6	1.0315	3.6
A. Stark .....	.....	.....	3.2
A. Strasburg.....	.....	.....	3.2
Joe Harger .....	3.4	1.031	3.7
John Schwab .....	4.	1.0312	3.9
William Ladine...	4.2	1.0305	3.8
Frank Fischer....	3.9	1.0324	3.4
Enoch Schwab .....	4.3	1.0312	4.2
Joe Gritzbb .....	.....	.....	4.1
August Woolin .....	4.3	1.0315	4.1
Charles Banken ..	3.4	1.0292	3.5
Killen Miller .....	4.	1.0312	3.6
Henry Jamish .....	.....	.....	4.2
Henry Frealich ..	.....	.....	3.4
Chas. Wooljn .....	.....	.....	3.8
Ed. Woolin .....	.....	.....	3.7
S. Stilkie .....	.....	.....	3.4
Albert Hanke .....	4.2	1.0312	4.2
Jerry Quist .....	4.1	1.031	3.1
G. Sanbuhn .....	4.2	1.0304	3.8
Wm. Milkie .....	3.6	1.0294	.....
Albert Woolin .....	.....	.....	4.
Ernest Baker ....	4.2	1.0315	3.8

Jan. 31, 1908. Beaumont Creamery, located at Kansasville. Manager, McCanna & Fraser Co.

	% fat.	comp.	samples.
G. Bollock .....	.....	.....	3.9
Geo. Beaumont.....	.....	.....	3.8
H. Gorman .....	.....	.....	4.2
Cox Bros. ....	.....	.....	3.6
W. Huekstorf .....	.....	.....	3.8
Jno. English .....	.....	.....	3.6
E. Rountree .....	.....	.....	3.8
E. Hinchliffe .....	.....	.....	3.7
Jno. Boltz .....	.....	.....	4.0

% fat.  
comp.  
samples.

Geo. Bollock .....	4.4
E. Graham .....	4.1
H. Gerber .....	3.6
Mrs. Hanaford .....	3.9
Thos. Neven .....	3.6
Jno. Hardie .....	3.9
A. W. Hinchliffe .....	3.7
W. Edwards .....	3.6
Lewis Bros. ....	4.0
F. Buchau .....	3.6
Jno. McManus .....	3.8
A. Crane .....	4.1
P. Larson .....	3.8
C. Hanaford .....	3.0

Feb. 28, 1908. Nelson Creamery located in town of Nelson, Buffalo Co. Manager, T. E. Armstrong, Nelson.

Cream.  
(Composite samples.)

	% fat.
Kennedy & Son.....	24.0
H. Luther .....	27.0
John Witiven .....	25.0
F. Wolhwend .....	26.0
L. Spies .....	20.0
P. Bade .....	19.0
Geo. Ender .....	19.0
Susan Ender .....	19.0
John Hetrich .....	21.0
F. Radatz .....	21.0
Ole Sande .....	21.0
G. Suther .....	26.0
W. Priefert .....	26.0
Aug. Siefert .....	29.0
W. Klitsing .....	26.0
Aug. Briding .....	33.0
J. Zimmerman .....	24.0
D. I. Gibson .....	18.0
A. W. Morgadant .....	25.0
O. Helgo .....	25.0
Wm. Morguadt .....	24.0
Wm. Brunko .....	24.0
Wm. Ristow .....	29.0
Joe Crease .....	25.0
M. Bast .....	35.0
G. Paulson .....	22.0
T. Arndahl .....	18.0
C. Brooner .....	27.0
Jule Reinhardt .....	26.0
C. Reinhardt .....	27.0
Tom Otison .....	25.0
Wm. Knabe .....	28.0
Ed. Van Vleet .....	23.0

	% fat.
L. Doverspike .....	17.0
Joe Zabel .....	29.0
C. E. Lamb .....	15.0
Gunder Paulson .....	*21.0

\* Day's delivery.

Mar. 5, 1908. Empire Creamery Co., Junction City. Managers, Verthein & Rux, Junction City.

	% fat.	Sp. Gr.
Jno. Schlagowski .....	5.2	
Albert Spitalniak .....	4.4	
Martin Weir .....	3.9	
Joe Mazur .....	4.4	
Peter Rhoda .....	3.5	
Mike Waterman .....	4.5	
Stan. Gabreleovich .....	3.8	
Mike Pelarski .....	3.9	
Theo. Deinka .....	4.5	
J. C. O'Brien .....	4.7	
Cream.		
Fred Bernhagen .....	13.0	
D. L. Hunter .....	21.0	
Alex Grohonski .....	19.0	
Geo. Wolf .....	26.0	

March 6, 1908. Emerald Creamery located in town of Dunkirk 6 miles S. E. of Edgerton. Managers, W. H. Lester, Edgerton.

	% fat.	Sp. Gr.
W. H. Pells .....	4.2	1.0315
C. Hartzell .....	4.8	1.031
Cream.		
Wm. Walchline .....	21.6	
Wm. Connor .....	21.3	
W. H. Flaharty .....	27.9	
Frank Scholl .....	19.2	
Ed. Moore .....	25.9	
L. L. Wentworth .....	16.4	
C. D. Geary .....	25.	
James Burns .....	18.4	
J. H. Jensen .....	21.4	

March 24 & 25, 1908. Crystal Spring Creamery, Muskego, R. H. Manager, F. Imme.

	% fat.	Sp. Gr.
John Kelly .....	*	
John Loughney .....	*	
J. Wallman .....	3.9	1.031
Geo. Schuele .....	3.4	1.0315
T. Meade .....	4.0	1.030
J. Ladwig .....	3.8	1.030
A. Kabeg .....	4.3	1.030
Geo. Turgerson .....	3.2	1.030
T. Kellner .....	3.7	1.0305
G. Hohense .....	3.5	1.0295
J. Mcade .....	3.4	1.0315
C. F. Pfeffer .....	3.2	1.0315
M. Preves .....	4.0	1.0305
O. Cisner .....	4.8	1.030
A. Pfeffer .....	3.8	1.031
Geo. Malge .....	4.0	1.030
J. O. Nell .....	4.6	1.032
J. C. Schmitt .....	3.8	1.0315
A. Meade .....	2.9	1.028
F. Sobick .....	4.1	1.031
W. Rubley .....	3.4	1.031
J. Spitzner, Sr. ....	*	
C. Schmidt .....	3.4	1.031
T. Schmidt .....	3.4	1.030
W. Schmidt .....	3.2	1.030

	% fat.	Sp. Gr.
R. Kurth .....	3.5	1.030
A. Reese .....	*	
M. Loughney .....	3.7	1.031
W. Wollman .....	3.3	1.032
Geo. Wieman .....	3.5	1.031
M. Dougherty .....	4.2	1.0295
Geo. Bartin .....	4.3	1.0305
J. Burns .....	2.8	1.0315
J. Bass .....	3.4	1.030
W. Ladwig .....	3.5	1.0305
C. Bass .....	3.6	1.031
S. Bass .....	3.6	1.032
T. Wollman .....	4.2	1.0325
A. Wendt .....	3.45	1.0295
H. Boldt .....	3.6	1.0315
E. Holz .....	3.8	1.032
E. Ladwig .....	3.9	1.031
J. Schmidt .....	3.5	1.030
Al. Wollman .....	3.8	1.0305
O. Kreplin .....	3.8	1.031
W. Loomis .....	3.4	1.030
Wm. Small .....	*	
C. Loomis .....	5.8	1.031
M. McGowan .....	4.2	1.0295

\* See chemist's report.

March 27, 1908. Fairfield Creamery, Darien. Managers, Fenske and Rasmussen.

	% fat.	Sp. Gr.
J. W. Johnson .....		
M. Huber .....		3.5
E. W. Richard .....		3.6
T. Cassy .....		3.7
J. Waterman .....		3.7
Geo. Palmerton .....		3.4
J. Hackwell .....		3.9
O. Rye .....		3.6
Fred Seaver .....		3.6
A. Oleson .....		3.2
Geo. Myer .....		3.6
J. C. Nelson .....		3.7
J. Reohl .....		3.5
B. M. Dykeman .....		3.4
A. Corning .....		3.3
J. McFarland .....		3.7
W. Randall .....		3.6
O. Steinkrous .....		3.5
J. D. Clowes .....		*3.5
W. Finster .....		3.0
L. Stewart .....		4.8
J. Gould .....		3.7
M. J. Wilkins .....		3.6
L. M. Larson .....		4.0
M. J. McCarthy .....		4.1
H. McCarthy .....		*3.9
S. Carlson .....		*3.8
A. Brottlund .....		3.7
J. Dykeman .....		3.6
C. Enhange .....		3.8
J. Larson .....		3.5
A. D. Clark .....		3.6
J. C. Sirl .....		3.8
W. Moore .....		3.9
Robt. Moore .....		3.6
N. Westenberg .....		3.7
F. Schiller .....		3.6
D. Putman .....		3.8
V. Unteriner .....		3.0
W. D. Breitkrautz .....		*4.1
D. Ackley .....		3.6
A. L. Thompson .....		3.9
Geo. Dykeman .....		3.6
		3.8

	% fat, comp. samples.
C. Olives .....	3.4
C. Johnson .....	4.0
W. R. Casper .....	3.8
L. P. Carver .....	3.6
D. Inman .....	3.6
A. Jorgenson .....	3.2
E. Wetmore .....	3.9
H. Wilkins .....	4.1
D. R. Williams .....	3.8
W. H. Dykeman .....	3.4
A. Timm .....	3.9
T. Brooks .....	4.1
W. E. Henry .....	3.5
A. Randall .....	3.9

\* Unclean; returned.

March 23, 1903. Darien Creamery located at Darien. Manager F. P. Sax.

	% fat, comp. samples.	% fat, comp. samples.
J. Dodge .....	3.8	3.5
B. Wise .....	4.2	3.9
R. D. Blakely .....	3.9	3.7
C. Randall .....	3.4	3.2
E. A. Brigham .....	4.6	4.7
C. Nelson .....	3.4	3.5
Mrs. Lindeman .....	3.2	3.6
Wm. Blakely, Jr .....	3.8	3.9
A. Schunke .....	3.9	3.8
E. A. West .....	4.0	3.9
A. Huber .....	3.7	3.4
Piper & Delong Bros. ....	3.5	3.6
W. H. Long .....	4.3	3.8
A. McKinney .....	3.4	3.4
Liddle & Wenzel .....	4.1	4.0
M. Cannon .....	3.8	3.7
Blakely & Rodman .....	4.2	3.7
C. Weed .....	3.4	3.9
H. L. Long .....	4.2	3.8
Geo. Crippen .....	4.0	4.0
N. Heffley .....	3.6	3.4
J. W. Ivis .....	4.4	4.2
Weed & Christenson .....	3.9	3.8
Gardner & Jorgenson .....	3.6	3.6
J. Welch .....	4.3	4.0
C. Sweet .....	4.2	4.2
N. Lawrson .....	3.4	3.6
Clough & Roth .....	3.7	3.7
Geo. Randall .....	3.6	3.3
Fisk and Zahn .....	3.9	4.1
F. Mattison .....	4.2	4.2
G. Krohn .....	3.5	3.6
L. E. Hasting .....	3.8	3.5
Foltz & Newman .....	3.7	3.6
C. A. Mattison .....	3.6	3.2
J. N. Rockwell .....	3.9	3.8
G. Markell .....	3.2	3.0
A. D. Fryer .....	3.8	3.7
J. G. Uble .....	3.6	3.6
A. Ryer .....	3.6	3.5
P. Cannon .....	4.2	3.8
C. Erskdy .....	3.1	3.1
D. Peters .....	3.4	3.4
M. O'Connor .....	4.2	3.9
P. Schneider .....	3.6	3.7
H. Baerdsley .....	4.0	4.0
L. & M. V'helan .....	3.6	3.4
Jim Whelan .....	3.2	3.6
C. Gosso .....	4.2	4.1
Dell Taylor .....	3.9	3.8
M. A. Thorp .....	3.7	3.4
H. Stoll .....	4.7	4.2

March 31, 1908. Milton Creamery located at Milton. Managers, Robt. Else & Son.

	% fat, comp. samples.	% fat, comp. samples.
M. Powers .....	4.3	4.3
W. H. Holmes .....	3.2	3.2
D. Gray .....	4.0	4.0
Aug. Sommerfeldt .....	4.1	4.2
Harve Blusdel .....	3.5	3.5
Bert Carey .....	3.6	3.3
Nick Frell .....	3.8	3.6
N. P. McBride .....	3.8	3.8
Robt. Frederick .....	3.5	3.7
F. Wells .....	4.8	4.8
W. Prat .....	3.7	3.7
W. Grosskreutz .....	3.7	3.3
T. Vickerman .....	3.9	3.6
W. Vickerman .....	3.6	3.8
D. Davis .....	4.0	3.8
Chr. Nickelson .....	3.5	3.9
F. A. Kutz .....	3.3	3.4
R. R. Reude .....	3.7	3.8
H. Frederick .....	3.5	3.6
W. Lepke .....	3.8	3.7
H. D. Clark .....	3.5	3.6
H. Bentz .....	3.8	3.8
H. Holtz .....	3.6	3.6
J. Fanning .....	3.7	3.8

March 31, 1908. Six Corners Creamery, Milton. Manager, Dexter Gray.

	% fat, comp. samples.
Hall & Humes .....	3.6
Kuhuke & Borden .....	4.0
D. Howard .....	3.5
W. Thoms .....	3.7
L. Oldenwaller .....	3.3
F. Summerbell .....	4.6
C. Mullen .....	3.4
J. Fetherstone .....	3.9
H. Fess .....	3.4
L. Godfrey .....	3.4
T. Goodger .....	3.5
J. Monogue .....	3.5
E. Bingham (cream) .....	22.5
F. Richardson .....	3.2
H. Wenham .....	3.4
J. Waters .....	3.4
W. McCann .....	3.8
H. Windorf .....	3.9
Carter .....	4.2
B. Coon .....	3.7
A. Yates .....	3.6
C. A. Rice .....	3.5
G. Scholes .....	3.7
L. Fidler .....	3.4
D. Hull .....	4.0
J. Zanzinger .....	3.6
D. Gray .....	3.5
H. Arndt (cream) .....	21.5
J. Jennings .....	3.4
D. Bevins .....	3.6
C. Newton .....	3.5
A. Smith .....	3.7
G. S. Rice .....	3.7
G. Duckett .....	3.4
J. W. Fude .....	3.7
J. Clark (cream) .....	28.5
W. Shultz .....	3.6
G. Bacon .....	27.0
C. Weber .....	3.0
H. Shultz (cream) .....	25.

	% fat. comp. samples.
P. Bauer .....	3.8
Bier .....	3.9
F. Snyder .....	3.6
T. Storey .....	3.3

April 1, 1908. Shennington Creamery,  
Shennington. Manager, H. B. Audley.  
Cream.

P. Ellofsen .....	21.0
C. Meltesen .....	21.0
P. J. Reitz .....	28.0
C. Wind .....	23.0
D. W. Sheen .....	31.0
J. Jacobson .....	22.0
A. M. Christenson .....	23.0
H. Larson .....	25.0
J. Frei .....	23.0
J. A. Anderson .....	20.0
J. Sorensen .....	23.0
C. Hansen .....	23.0
P. Nelson .....	23.0
N. Robertson .....	27.0
H. Rasmussen .....	23.0
S. Olson .....	32.0
J. K. Jackson .....	21.0
Anna Banzas .....	18.0
H. Busse .....	19.0
J. Henriksen .....	24.0
F. Lander .....	27.0
J. Nelson .....	24.0
G. Will .....	35.0
O. A. Schmakel .....	28.0
O. J. Schmakel .....	27.0
M. Johnson .....	22.0
Mrs. S. Bushing .....	23.0
Olina Quam .....	23.0
F. R. Rogers .....	28.0
W. H. Shuman .....	31.0
F. Deashess .....	22.0
J. Hanson .....	19.0
J. N. Peterson .....	22.0

April 2, 1908. Union Creamery located  
in town of Lake Mills. Cambridge P.  
O. Manager, Gus. Schultz, Cam-  
bridge.

	% fat.
William Kornstadt .....	3.9
Reed & Coombe .....	3.7
Wm. Punzel .....	3.3
C. Willnitz .....	4.3
Mrs. Wallace .....	4.0
S. Esk .....	3.6
C. J. Schrader .....	3.4
August Arndt .....	3.5
August Weber .....	3.4
Wm. Suderman .....	3.4
H. Goerss .....	3.6
F. Schroeder .....	3.6
R. Alexander .....	*3.5
C. Finger .....	3.3
J. Crossman .....	3.6
C. Lyndon .....	3.4
G. Schultz .....	4.0
F. Wendt .....	3.5
August Wadler .....	4.
C. Bohn .....	3.4
C. Genrich .....	3.5
Wm. Schiffer .....	3.4
Fromming Bros. ....	3.4
H. Strasberg .....	3.4
H. Punzel .....	3.5
C. Thorman .....	3.6
C. Stockfish .....	3.6
G. Birow .....	3.1

	% fat.
O. Weber .....	3.6
E. Wilson .....	3.9
J. Berg .....	3.7
Otto Lueck .....	3.2
W. H. Kornstadt .....	4.0
H. C. Smith .....	3.6

\* Milk unclean.

April 2, 1908. Clifton Co-operative  
Creamery located in town of Kendall  
3 miles west of Hurler. Manager,  
H. Frohmader.

	% fat. comp. samples.
F. Nelson .....	24.0
J. Anderley .....	22.0
J. J. Tralmer .....	20.0
J. Humboldt .....	17.0
Wm. Jacob .....	24.0
F. Thrall .....	26.0
Ed. Waffler .....	23.0
J. C. Leitz .....	24.0
H. Cornish .....	22.0
F. Swanson .....	24.0
L. Anderson .....	23.0
C. Ninas .....	25.0
Clas. Van Hoden .....	19.0
M. Audley .....	16.0
Bill Siever .....	19.0
G. Grossman .....	20.0
E. Cook .....	21.0
J. Gamerdinger .....	19.0
G. Cook .....	20.0
J. Pitel .....	20.0

Milk.

C. Hanson .....	3.2
J. Arzt .....	3.2
F. Juderome .....	3.0
F. Barron .....	3.2

April 3, 1908. Star Creamery located  
in town of Lake Mills. Manager,  
Victor Taylor, Lake Mills.

	% fat. comp. samp.
Ferdnan Satsch .....	* 2.8

\* See chemist's report.

April 6, 1908. W. E. Carter Creamery  
located in town of Maple Creek.  
Manager, W. E. Carter, New London.

	% fat. comp. samples.
A. B. Hurter .....	*3.4
Fred Kussrow .....	*3.5
W. Pomeroy .....	*3.3

\* See herd tests, chemist's report.

April 7, 1908. Caldwell Creamery. Lake  
Beulah. Manager, Edw. Seaman.

	% fat.
A. R. Talcott .....	3.4
A. Patterson .....	3.7
E. A. Brown .....	3.4
G. Ward .....	3.6
F. Utter .....	3.5
A. H. Peacock .....	4.0
Geo. Peacock .....	3.8
Clarence Van Valin .....	3.5

	% fat.
Gus Weiderman.....	3.8
C. Neuman .....	2.8
F. Smith .....	3.5
Clem Van Valin .....	3.4
B. W. Craig .....	3.7
S. Quinn .....	3.8
W. Abel .....	3.7
Mrs. Buttles .....	4.1
E. Buttles .....	3.7
E. Beardsley .....	4.3
H. C. Gresly .....	3.7
W. Otterman .....	3.7
H. Misch .....	3.4
Geo. Koch .....	3.9
G. D. Albee .....	3.9
F. Waugeline .....	3.7
C. Clausen .....	3.4
F. Wigert .....	3.4
C. Meyer .....	3.2
E. Hilgert .....	3.2
W. Butke .....	3.9
H. Butke .....	3.3
A. Butke .....	3.7
H. Koerbrniek .....	3.2
W. Gluick .....	3.0
P. Deurst .....	3.5
H. F. Meyers .....	3.3
H. Schrader .....	3.5
H. Haas .....	5.8
M. Weiderman .....	3.9
Cream.	
L. Sargeant .....	18.5
A. J. Gruenwald .....	25.0
A. N. Hollister .....	21.0

April 9, 1908. Fountain City Creamery, Fountain City. Manager, A. E. Gerlock.

Cream.

	% fat.
C. Meile .....	14.5
Mrs. A. Schmidtkeect.....	15.0
H. Litscher .....	17.5
H. Schroeder .....	20.0
W. Hunger .....	14.0

Samples taken at farms.

April 16, 1908. Union Creamery located in town of Lake Mills. Manager, G. Schultz, Cambridge.

	% fat.
Wm. Kornstadt .....	3.5
Reed & Combe .....	3.4
Wm. Punzel .....	3.3
C. Wellnitz .....	3.7
Mrs. Wallace .....	3.5
S. Eck .....	3.6
C. J. Schrader .....	3.4
August Arndt .....	3.4
August Weber .....	3.3
Wm. Suderman .....	3.4
H. Goerss .....	3.6
F. Schroeder .....	3.7
R. Alexander .....	3.7
C. Finger .....	3.3
C. Crossman .....	3.4
G. Schultz .....	3.6
F. Wendt .....	3.5
August Wadler .....	3.6
C. Bohn .....	3.5
C. Genrich .....	3.6
Wm. Schiffler .....	3.3
H. Punzel .....	3.6
C. Thorman .....	3.6
C. Stockfish .....	3.5
G. Birow .....	3.2

	% fat.
O. Weber .....	3.6
E. Wilson .....	3.9
J. Berg .....	3.4
Otto Lueck .....	3.2
H. Kornstadt .....	4.
H. C. Smith .....	3.8

April 17, 1908. Fair View Creamery located in town of Aztalan 4 miles N. W. of Jefferson. Manager, A. G. Peurner, Jefferson.

	% fat.
J. G. Seward .....	4.3
E. F. Goermans .....	4.
F. Marsh .....	4.
O. Christian .....	3.8
G. Mollin .....	3.7
John Whiting .....	4.4
M. Schroeder .....	3.8
Aug. Eoder .....	3.7
A. Schroeder .....	3.6
H. Hemingway .....	3.7
C. Mundt .....	3.6
H. Sour .....	3.1
W. Rea .....	4.2
W. Greene .....	3.8
E. Punzel .....	3.6
C. Mussehl .....	4.
W. Furstnow .....	3.4
F. Sobuck .....	3.6
Aug. Thorman .....	3.7
C. Punzel .....	3.5
C. Moelin .....	3.7
H. Smith .....	3.7
Aug. Grabow .....	3.4
Fred Meyer .....	3.8
E. Butime .....	3.6
C. Musselman .....	4.
C. Zumpf .....	3.6
M. Smith .....	3.5
D. Smith .....	3.6

April 18, 1908. Fair View Creamery located in town of Oakland 5 miles West of Jefferson. Manager, A. G. Puerner, Jefferson.

	% fat.
J. P. Thayer .....	4.8
W. Schimming .....	3.6
J. Sister .....	3.7
G. Strosbel .....	3.6
H. Schimming .....	3.4
C. Deavis .....	3.3
E. Pustorow .....	3.2
C. Krause .....	3.7
M. Heishfield .....	3.5
C. Robbins .....	3.9
S. Gottschalk .....	3.6
A. Moyner .....	3.5
R. Krull .....	3.4
E. Lutz .....	3.6
E. Schroeder .....	3.8
G. Butzmire .....	3.3

April 21, 1908. Valley Creamery located in the town of Plymouth, Sheboygan Co. Manager, A. K. Brant.

	% fat.	Sp. Gr.
J. P. Goelzer .....	3.2	1.0315
P. Knauer .....	3.2	1.0305
A. Kirst .....	3.5	1.0305
W. Bechem .....	3.2	1.0305
F. Iserloth .....	2.85	1.030
F. Jens, Sr. ....	3.0	1.030
H. Reis .....	3.1	1.0303



	% fat.	Sp. Gr.
C. Wiltkop .....	3.0	1.0293
F. Warburton .....	3.2	1.030
G. Allwardt .....	3.1	1.030
F. Jens. Sr. ....	3.3	1.031
C. R. Pfrang .....	3.2	1.0295
N. J. Stemper .....	3.3	1.0295
C. Miller .....	3.1	1.0312
F. Reis .....	3.2	1.0303
J. Sippel .....	3.2	1.031
F. W. Minch .....	3.2	1.030
G. Hadler .....	3.2	1.031
L. Reis .....	3.2	1.0313
H. Juers .....	3.1	1.0317
L. A. Pfrang .....	3.2	1.030
H. Stelter .....	3.8	1.0316
Mrs. Demunck .....	3.3	1.030
E. Juers .....	3.1	1.030
P. Miller .....	3.4	1.0315
A. S. Reed .....	3.2	1.0317
Carl Pfrang .....	3.0	1.0324

April 22, 1903. Star Creamery, located in town of Rolling, P. O. Antigo. Manager, Adolph W. Kommers.

(Cream.)

	% fat.
Joe Marsh .....	34.
Chas. Voss .....	34.
J. C. Bailey .....	32.
Jos Mc Dougal .....	35.
W. Schuster .....	31.5
Joe Eazile .....	31.
S. Earnes .....	28.
Steve Noskowiak .....	39.
Engebret Steber .....	36.5
W. J. White .....	30.
Martin Sobpowiak .....	25.
Dan Gantz .....	32.
Ben Fackman .....	41.5
Joe Wild .....	38.
Henry Hameister .....	38.
Margaret Beshler .....	35.
Julius Hageman .....	34.
Fred Geeman .....	30.
Frank Koszarik .....	31.
Schroeder Bros. ....	35.
Jos. Somaun .....	36.
Aug. Ladin .....	27.
Jos Szychala .....	50.5
Herman Hitz .....	42.5
Frank Kuehl .....	23.
Wenzel Dreschler .....	38.
Mar. Polinsky .....	34.
J. Chert .....	24.
A. Snychalo .....	38.
Frank Zazaman .....	29.
Joe Hartle .....	30.
Wenzel Fleishman .....	23.
Sam P. Nelson .....	25.5
C. Tillett .....	34.

April 22, 1903. Hillside Creamery, located in town of Richland, 3 miles north of Richland Center. Manager, Frank Eowen.

	Sp. Gr.
J. Hall .....	1.029
M. Schoonover .....	1.031
F. Bowen .....	1.032
P. A. Waggoner .....	1.032
F. Straight .....	1.0315
G. Cooper .....	1.031
Bud Schoonover .....	1.0302
J. O. Henthorn .....	1.033

	Sp. Gr.
F. O. Barron .....	1.030
John Lord .....	1.0305
C. K. Janney .....	1.0305
Clark Ray .....	1.0305

April 23, 1908. West Plainfield Creamery, located in town of Plainfield. Plainfield, P. O. Manager, John....

	% milk	% fat.	Sp. Gr.	comp. samples.
Joh Bound .....				3.5
D. M. Wood .....				4.
W. A. Rozell .....				4.
Geo. Sutrak .....				3.5
D. T. Wood .....				3.4
J. W. Wood .....				3.9
C. H. Crawford .....				4.
Frank Elzja .....				3.4
Homer Sovijor .....				3.2
J. H. Rees & Co. 3.2	1.0295			3.2
J. S. Weldon .....				3.8
Alvin Waker .....	3.4	1.0305		3.2
Harry Walker .....				3.7
Charles Drake .....				12.8
S. H. Rozell .....				4.
W. Moore .....				4.
S. J. Gardner .....	3.	1.0315		3.1
Ora Gardner .....				4.5
W. P. Stevens .....				4.1
C. H. Pratt & Co. 3.3	1.0315			3.
A. J. Walker .....				3.6
H. C. Wood .....				3.4
D. Getman .....	3.6	1.0314		3.4
F. C. Lea .....				3.4
G. Potton .....				4.6
Ed. Rozell .....				3.8
Geo. Goult & Co. ....				3.7
John Myrechuck .....				*.
Frank Mulline .....				4.

\* See chemist's report.

† See herd sample.

(Cream.)

	% fat.	comp. samples.
T. J. Sparks .....		21.
D. E. Barker .....		22.5
Susan Bovee .....		17.
M. N. Leavitt .....		17.
M. S. Harris .....		21.
J. H. Garley .....		24.5
Ed. Cromwell .....		29.
C. Allison .....		36.
B. O. Stomes .....		31.
F. E. Perry .....		15.
A. Youngs .....		23.
W. A. Kelley .....		24.
G. R. Applebee .....		24.
W. J. Perry .....		17.
T. S. Reik .....		23.
A. S. Holland .....		20.5
Ora Wing .....		33.
A. Conwell .....		27.
C. S. Stillwell .....		30.
O. M. Ferdon .....		25.
Tony Palik .....		11.
Ed. Tonner .....		34.5
Jos. Kerties .....		23.
W. H. Rice .....		25.
Jerome Starks .....		40.
Jack Wanichack .....		18.
John Porlik .....		19.
Martin Palek .....		20.
Steve Petruski .....		25.
W. H. Decker .....		24.
Ed. Bender .....		25.

April 24, 1908. West Plainfield Creamery, located in town of Plainfield. Manager, John Indermuehle.

	% milk		% fat, comp. samples.
	fat.	Sp. Gr.	
A. W. Adams			4.
S. R. Kavalski	3.3	1.0323	3.2
A. F. Spencer			4.
A. Urban			3.6
C. E. Johnson			3.5
C. Walker			4.
Fred oand			4.
Mary Dobke			3.6
Clarence Wood			3.3
L. H. Applebee			4.2
F. W. Wood			3.9
A. Dewitt			3.4
A. C. Noyes			3.7
Eugene Tibbitts	*.†		...
John Tibbitts			4.
Geo. Davis			4.8
Ira Wilson	3.7	1.0315	3.5
D. McLaughlin			4.3
A. W. McLaughlin	3.2	1.0305	3.2
W. M. Burrows	3.2	1.0315	3.2
C. C. Ray			4.3
H. A. Irish			3.3
John George			3.1
A. J. Steele			3.5

\* See chemist's report.  
† See herd sample.

April 30, 1908. Belleville Creamery, located in town of Mt. Rose, Belleville, P. O. Manager, J. Renney.

	% fat, comp. samples.	
	fat.	Sp. Gr.
H. Riess	3.3	
Wm. Moorhead	3.8	
H. Geiger	4.0	
V. Garville	3.2	
C. Kuehni	3.6	
S. Klaessy	3.2	
A. Garville	3.5	
Bruelng & Hoskins	3.8	
W. Willoughby	3.2	
J. Fahey	3.7	
E. Scott	3.2	
F. Carheron	4.2	
J. Reuey	4.1	
X. Garville	3.4	
P. Babler	3.6	
W. Chatterton	4.0	
E. Maas	4.2	
W. Cunningham	3.5	
L. Ternot	3.4	
J. Berg	3.4	
W. Doyle	3.7	
J. Gehisi	3.7	
C. E. C. G. Rolev	3.4	
Salisbury & Judd	3.7	
J. Voegell	3.3	
W. Elmer	3.3	
Zweifel Bros.	3.0	
R. Wild	3.2	
J. Babler	4.0	
Sam Klaessy	3.2	
E. Durst	3.3	
F. Zweifel	3.6	
H. Hendrickson	3.3	
W. J. Gafke	3.5	
(Cream.)		
F. Luchsinger	30	
M. Fritz	23	
S. Swiggum	40	

May 1, 1908. Minnesota Jct. Creamery, Minnesota Jct. Manager, H. J. Grebl.

	% fat. Sp. Gr.	
	fat.	Sp. Gr.
Aug. Guenrich	3.20	1.0315
Wm. Draeger	3.40	1.0315
Otto Bogta	3.70	1.0308
Wm. Viester	4.20	1.0322
Albert Yates	4.10	1.033
Fred Spatholtz	3.30	1.031
Fred Bennetz	3.40	1.031
Orin Greenfield	3.80	1.0304
Amil Nitzchke	3.70	1.031
Charlie Kannelbach	3.70	1.031
Otto Naffin	4.00	1.031
Frank Selchert	5.00	1.0312
Fred Rupnow	3.30	1.0315
Wallace Tanphair	3.70	1.032
Louis Stehlow	4.10	1.033
Wm. Klemp	3.00	1.033
Ed. Ruch	3.40	1.032
Herman Schroeder	3.20	1.032
Martin Hanson	4.60	1.032
Albert Furhman	3.60	1.0318
W. P. Baker & Son	4.00	1.0315
Louis Grover	3.80	1.031
John Bennisy	3.60	1.0315
J. Luebke	3.40	1.030
Fred Knoll	3.70	1.033
Wm. Barrie	4.20	1.032

May 6, 1908. Oak View Creamery, Oconomowoc. Managers, Gunderman & Roehrdan.

	% fat. Sp. Gr.	
	fat.	Sp. Gr.
Earnest Rosenow—		
Morning's milk	4.2	1.0317
Night's milk	3.8	1.0315
H. C. Welcher—		
Morning's milk	5.1	1.0315
Night's milk	4.6	1.0324
Frank Flanagan—		
Morning's milk	4.4	1.0317
Night's milk	3.6	1.0315
Geo. Tumel—		
Morning's milk	4.0	1.0315
Night's milk	4.4	1.0315
Otto Frank—		
Morning's milk	4.5	1.032
Night's milk	4.0	1.0325

May 14, 1908. New Richmond Creamery, New Richmond. Manager, Peter Utgard.

	% fat, comp. samples.	
	fat.	Sp. Gr.
Alfred Tholien	3.1	
C. N. Weber	3.9	
G. Zembeck	3.6	
L. A. Humphrey	4.0	
G. W. Smith	3.4	
Louis Peterson	3.0	
C. Boyer	3.2	
Henry Bernd	3.2	
Alb. Buettner	3.2	
Math. Cullen	3.3	
L. A. Finz	3.4	
M. P. Earley	3.0	
A. J. Lubka	3.6	
Paul Bremer	3.5	
(Cream.)		
Chris. Christofferson	25.	
Frank Means	34.	
Jas. Lundy	24.	
W. D. Gowan	17.	
J. E. Gison	33.5	
Mrs. F. Kelley	22.	

	fat, comp. samples.
G. Burns .....	21.5
Tim. McNamara .....	23.
O. L. Geaton .....	19.5
A. L. McDonald .....	27.
Joe Harbeck .....	26.
J. McCarty .....	31.
N. A. Jaspersen .....	24.
Fred Bethka .....	18.

May 15, 1908. Star Prairie Creamery,  
Star Prairie P. O. Manager, Brady  
Utgard.

	fat, comp. samples.
Olson Bros. ....	3.7
Fred Rork .....	4.1
Paul Haeckel .....	4.0
Swan Willien .....	3.9
A. Anderson .....	3.4
W. Swanson .....	3.6
Wm. Willien .....	3.7
Mrs. O. Swendson .....	3.1
Nils Asp .....	3.8
A. Amquist .....	4.3
M. Rull .....	3.8
Gust Larson .....	3.6
Joe Plumadore .....	3.7
Mins Olson .....	3.4
Harry Anderson .....	3.4
Dave Gove .....	3.7
Ed. Hand .....	3.2
Theo. Dale .....	3.4
Ole Malstad .....	3.0
Wm. Bunnis .....	3.7
Wm. Hackett .....	3.6
Lou Erickson .....	3.4
John Mattson .....	3.8
J. C. Little .....	3.1
M. O. Stromer .....	3.1
Dave Westbury .....	3.9
Otto Christofferson .....	3.5
Nils Soderquist .....	3.3
(Cream.)	
Lou Olson .....	24.
Mrs. G. Peterson .....	25.5
Wm. Turner .....	29.
Chas. McDougal .....	26.
Ole Westburg .....	27.
S. H. Johnson .....	28.
C. Christofferson .....	23.
Nils Sundval .....	40.
Mrs. A. Thompson .....	24.
Tom Winstad .....	24.
Lyman Kidder .....	32.
Fred Wieland .....	32.5
Jul. Olson .....	28.
A. M. Fuller .....	21.5
H. Hilskotter .....	13.5
Ole Anderson .....	20.
N. E. Olien .....	30.5
Walter Wieland .....	31.5
Fred Weeks .....	27.
Peter Croner .....	29.
P. O. Hangrud .....	24.
Lou Christenson .....	24.5
A. Battolfson .....	23.5
Alb. Skifstad .....	21.5

May 15, 1908. Arena Creamery, Arena,  
Manager, W. J. Smith.

	fat, comp. samples.
Chris. Tudian .....	23.4
Herman Stebnetts .....	24.
Tommy Jones .....	20.4

	fat, comp. samples.
George Smith .....	20.
G. Gorst .....	22.
Wm. Stebnetts .....	18.8
N. E. Bryant .....	20.6
F. Batty .....	26.8
Wallace Caldwell .....	24.4
Wm. Sawle .....	18.4
A. Robert .....	30.
Lee Hottman .....	22.4

May 20, 1908. Galesburg Creamery, lo-  
cated in town of Navarino. P. O., Lee-  
man, R. D. 1. Manager, A. C. Mc-  
Cully.

	fat, comp. samples.
Wm. Abeshner .....	3.8
O. P. Nelson .....	4.
John Bentson .....	4.2
Otto Anderson .....	4.
L. Shumacher .....	4.2
A. Dickow .....	4.5
A. C. McCully .....	4.1
John Reiff .....	4.2
A. Vang .....	3.5
C. Bentson .....	3.5
J. Toum .....	4.2
John Hegrud .....	4.
C. Shemoncoski .....	3.6
E. Robley .....	3.8
S. Ciesielazyk .....	4.
H. Porter .....	4.
Chas. Denow .....	4.
L. Blanchard .....	3.9
J. Wilson .....	3.9
W. Keylar .....	3.9
L. Stegdd .....	3.2
A. Klitzke .....	3.7
O. R. Nelson .....	3.3
M. Ammundson .....	4.1
Peter Johnson .....	3.6
O. Christianson .....	3.4
C. Christianson .....	3.1
O. Peterson .....	3.4
F. Johnson .....	3.4
John Jacobson .....	3.4
N. Peterson .....	3.3
Thomas Jelly .....	3.2
E. Olsen .....	3.4
E. Leish .....	4.4
Wm. McCoy .....	3.8
Mons Boreesen .....	4.2
Aug. Fischer .....	3.8
B. Anderson .....	4.2
J. Peterson .....	4.8
A. J. Westgor .....	3.4
Anton Johnson .....	3.1
Joe Lunlac .....	2.8
A. Short .....	4.0
E. Slack .....	3.8
Aug. Klitzke .....	2.2
John Lindston .....	3.0
J. B. Homes .....	3.9
F. Porter .....	3.0
H. Krull .....	4.0
M. Boreesen .....	4.1
E. Stenberg .....	5.15
O. Onson .....	2.0
Wm. Newman .....	3.2
M. Springer .....	3.8
W. Schwandt .....	4.4
H. Johnson .....	3.2
G. Broen .....	3.8
H. Hill .....	3.6
E. Nelson .....	3.2
Wm. Mills .....	3.8
A. Nelson .....	3.6
L. Peterson .....	2.8

June 29, 1908. Shiocton Creamery, located in town of Bovina, P. O. Shiocton. Manager, F. J. Braatz.

	fat, comp. samples.	fat, comp. samples.
(Cream.)		
Geo. Cone .....	40.	A. Barker, Sr..... 29.
H. Bayer .....	19.	C. Krueger .....
Adam Burns .....	26.5	H. F. Miller .....
C. J. Waller .....	20.	H. Potts .....
A. Barker, Jr. ....	30.	G. Buyer .....
Jno. Aethner .....	24.5	B. Smolk .....
A. Bates .....	37.	G. Lettman .....
W. Lettman .....	37.5	O. Marquit .....
E. Springtrock .....	26.	J. R. Beyer .....
C. Witcheehm .....	27.	J. P. Peterson .....
Fred Maconegny .....	32.	H. Zechaechner .....
L. Kennedy .....	27.	J. Canavan .....
A. Kuhn .....	26.	C. Tackman .....
J. Kennedy .....	34.	A. Conradt .....
Peter Oleson .....	37.	F. M. Schlitz .....
A. Valentine .....	45.	Ed. Preston .....
B. Thompson .....	35.	Chas. Ritter .....
Ed. Manders .....	25.5	Carl Beyer .....
C. M. Peck .....	24.	Wm. Newenfeldt .....
		Thos. Peep .....
		Fred Pluger .....
		A. Milkest .....
		Wm. Palts, milk .....

## CITY MILK AND CREAM INSPECTION.

Jan. 21, 1908. Monroe			Feb. 25, 1908. Boscobel.		
	% fat.	Sp. Gr.		% fat.	Sp. Gr.
C. A. Goddard, morning's milk*	4.6	1.0315	F. L. Salzgebee, milk....	4.0	.....
C. A. Goddard, night's milk*	3.90	1.0315	Feb. 25, 1908. La Crosse.		
E. Trevitt, mixed milk*	4.20	1.033	John C. Kemson, milk....	4.2	1.032
D. Thom, morning's milk.	3.70	1.0305	John C. Kemson, cream....	24.8	.....
D. Thom .....	3.40	1.0295	John Freismuth, milk....	3.7	1.0304
J. H. Klieberger, cream....	22.	.....	John Freismuth, milk....	3.7	1.0322
* Not clean.			Chas. Dussow, milk....	3.5	1.0312
Note.—Wisconsin curd test made of these samples.			Chas. Dussow, milk....	3.4	1.0302
Jan. 22, 1908. Brodhead.			Chas. Dussow, cream....	19.7	.....
	% fat.	Sp. Gr.	L. Casperson, milk....	3.1	1.033
A. Pierce, morning's milk	4.10	1.032	L. Casperson, cream*....	.....	.....
F. M. Farmer, mixed milk	4.10	1.032	O. Knudtson, milk....	3.8	1.0280
Jan. 31, 1908. Fountain City.			O. Knudtson, cream....	18.4	.....
	% fat.	Sp. Gr.	Henry F. Runge, cream....	19.2	.....
John Puls, cream*.....	.....	.....	Henry F. Runge, milk....	5.3	1.0282
John Puls, milk.....	3.5	.....	A. Larson, milk....	3.6	1.0335
* See chemist's report.			A. Larson, milk....	3.9	1.0335
Feb. 18, 1908. Elroy.			A. Swenson, milk....	3.2	1.0337
	% fat.	Sp. Gr.	Edward Almos, milk....	3.6	1.0331
C. E. Phillips & Co., cream	22.	.....	Edward Almos, cream....	18.	.....
C. E. Phillips & Co., milk	4.0	.....	Silar Bros., milk....	3.8	1.031
C. E. Phillips & Co., milk	4.0	.....	Silar Bros., cream....	22.6	.....
Feb. 1, 1908, Lancaster.			Chas. Linsie, milk....	4.3	1.0335
	% fat.	Sp. Gr.	Chas. Linsie, cream....	18.7	.....
Leroy Oates, milk.....	4.5	.....	Baker & Son, milk....	3.9	1.0304
Leroy Oates, milk.....	4.4	.....	Baker & Son, cream....	18.6	.....
Lon Wayne, milk.....	5.0	.....	Kasper Zweifel, milk....	3.4	.....
H. J. Smith, cream....	20.4	.....	Kasper Zweifel, cream*....	.....	.....
Lerov Oates, cream....	21.6	.....	Fred Hess, milk....	3.6	1.0297
U. S. Lathrop, cream....	25.	.....	Fred Hess, cream....	18.2	.....
Feb. 20, 1908. Platteville.			Fred Hess, cream....	20.	.....
	% fat.	Sp. Gr.	John Hoff, milk....	2.85	1.0297
W. M. Boyle, milk.....	3.4	1.0325	Loney Koch, milk....	4.4	1.0316
J. M. Paul, milk.....	4.4	.....	C. Seiler, milk....	4.8	1.0336
Ben. Neeley, milk.....	4.5	.....	C. Seiler, cream....	19.6	.....
Roe Woods, Mgr., milk....	4.2	.....	Chas. Hess, milk....	3.9	1.0335
Eugene Mitchell, milk....	5.0	.....	Silar Bros., milk....	4.3	1.0336
W. M. Boyle, cream.....	17.6	.....	Silar Bros., cream....	21.2	.....
Feb. 21, 1908. Tomah.			H. L. Niles, milk....	3.7	1.034
	% fat.	Sp. Gr.	H. L. Niles, cream....	25.6	.....
Wyott & Son, cream....	34.5	.....	Mrs. F. McDonald, milk*	.....	.....
Wyott & Son, milk....	4.5	.....	Mrs. F. McDonald, cream*	.....	.....
M. B. Lee, cream.....	35.	.....	Chas. Manske, milk....	4.8	1.0325
M. B. Lee, milk.....	4.1	.....	Chas. Manske, cream*....	.....	.....
			Chas. Linsie, milk....	4.4	1.0337
			Chas. Linsie, cream....	18.8	.....
			D. B. Phelps, cream*....	.....	.....
			Nels Jensen, milk....	4.	1.0297
			Nels Jensen, cream....	18.	.....
			A. W. Rennebohm, cream	23.4	.....
			Martin Boma, cream*....	.....	.....
			* See chemist's report.		

	% fat.	Sp. Gr.
Feb. 26, 1908. Prairie du Chien.		
Fenton Wachter, milk*	.....	.....
Fenton Wachter, cream...	16.	.....
Ahrens Bros., milk*	.....	.....
Ahrens Bros., cream.....	20.8	.....
Louis Cherrier, milk.....	4.4	1.0312
Louis Cherrier, cream....	15.6	.....
Wm. Swingle, milk*.....	.....	.....
Wm. Swingle, cream.....	18.8	.....

\* See chemist's report.

	% fat.	Sp. Gr.
Feb. 27, 1908. Mazomanie.		
Thomas Rovston, milk....	4.4	1.0315
R. W. Coleman, milk.....	3.8	1.0305
R. W. Coleman, cream....	21.0	.....

	% fat.	Sp. Gr.
Feb. 28, 1908. Richland Center.		
H. S. Moran, milk.....	4.3	1.0313
W. S. Wightman, milk..	4.6	1.031
C. C. Fries, milk.....	4.0	1.0315
C. C. Fries, cream.....	26.0	.....
R. H. Clarson, milk.....	4.8	1.0312

	% fat.	Sp. Gr.
Feb. 29, 1908. La Crosse.		
Joe Bentler, milk.....	4.8	.....
Joe Bentler, cream.....	23.	.....
Joseph Lentzinger, milk..	3.3	.....
Joseph Lentzinger, cream	24.	.....

	% fat.	Sp. Gr.
March 3, 1908. La Crosse.		
S. Pierce, cream.....	20.5	.....
Tucker, cream.....	19.	.....

	% fat.	Sp. Gr.
March 3, 1908. City of Antigo.		
H. W. Green, cream.....	18.	.....
H. W. Green, milk.....	4.0	1.033
J. Guenther, cream.....	40.	.....
J. Guenther, milk.....	3.8	1.032
M. Carey, milk.....	4.9	1.032
Mrs. Geo. Keen, milk.....	5.0	1.0325
M. Goesch, milk.....	4.0	1.033

	% fat.	Sp. Gr.
March 5, 1908. Beaver Dam.		
J. B. Kastenmeir, milk...	3.8	1.0305
Herman Gross, milk.....	3.7	1.031
Peter Haertl, milk.....	3.8	1.030
W. C. Wheeler, milk.....	3.9	1.030
J. J. Neuno, milk.....	4.0	1.0315

	% fat.	Sp. Gr.
March 6, 1908. Fox Lake.		
A. P. Dickson, milk.....	3.1	1.0315
A. P. Dickson, cream.....	22.3	.....

	% fat.	Sp. Gr.
March 7, 1908. Eau Claire.		
D. Robinson & Son, milk..	4.1	1.031
A. Nemser, milk.....	4.	1.033
A. Nemser, cream.....	18.5	.....
G. Bain, milk.....	4.2	1.0307
G. L. Olin, milk.....	3.6	1.0305
G. L. Olin, milk.....	3.5	1.031
G. L. Olin, cream.....	24.5	.....
John Hollan, milk.....	4.0	1.029
John Hollan, cream.....	19.6	.....
K. A. Borgen, milk.....	4.5	1.0323
K. A. Borgen, cream*.....	.....	.....
Aug. Johnson, milk.....	3.6	1.0318

	% fat.	Sp. Gr.
Osman & Fingler, milk...	3.7	1.032
Osman & Fingler, cream..	21.6	.....
Herman Peisch, milk.....	4.3	1.0305
Herman Peisch, milk.....	3.9	1.0305
Geo. F. Cunningham & Son, milk.....	3.6	1.031
Geo. F. Cunningham & Son, cream*.....	.....	.....
Sam Guthrie, milk.....	4.2	1.0322
Sam Guthrie, cream.....	19.5	.....
L. B. Ritter, cream.....	21.	.....
Steve Dunham, milk.....	3.5	1.0293
Dan Benjamin, milk.....	4.2	1.030
Dan Benjamin, milk.....	4.4	1.032
Eau Claire Cry, cream....	24.8	.....

\* See chemist's report.

	% fat.	Sp. Gr.
March 7, 1908. New London.		
A. L. Nitke, milk.....	4.5	1.032
A. L. Nitke, milk.....	4.8	1.032
Aug. Beckert, milk.....	3.5	1.0315
Aug. Beckert, milk.....	4.2	1.0315

	% fat.	Sp. Gr.
March 9, 1908. Eau Claire.		
Conn & Buchman, cream.....	24.3	.....
W. H. Kneeland, cream*.....	.....	.....
W. H. Smith, cream*.....	.....	.....
S. B. Boswick, cream.....	20.2	.....
C. T. Douglas, cream.....	19.4	.....
C. F. Rawlings, cream*.....	.....	.....
Mahla & Burditt, cream.....	20.6	.....
Geo. Smith, cream.....	19.	.....
Geo. J. Neher, cream.....	21.3	.....
Allen Hanson, cream.....	25.1	.....
H. J. Patterson, cream.....	21.8	.....
Lind & Co., cream.....	25.2	.....
J. H. Kleiner, cream.....	21.	.....

\* See chemist's report.

	% fat.	Sp. Gr.
March 10, 1908. Baraboo.		
John Yagy, milk.....	4.3	1.0325
M. J. Tyler, milk.....	4.3	1.0315
Geo. Holmes, milk.....	4.2	1.032
E. R. Simonds, milk.....	4.1	1.0325
E. R. Simonds, milk.....	4.4	1.0325
C. H. Simonds, milk.....	3.2	1.0315
C. H. Simonds, milk.....	4.1	1.031
Geo. Holmes, milk.....	4.1	1.031
M. J. Tyler, milk.....	4.8	1.030
M. J. Tyler, milk.....	4.1	1.0325
Chauncey Holmes, cream	24.	.....
E. R. Simonds, cream.....	26.	.....
C. H. Simonds, cream.....	25.2	.....
Geo. Holmes, cream.....	22.	.....
M. J. Tyler, cream.....	32.	.....
John Yagy, cream.....	25.4	.....
M. J. Tyler, cream.....	26.4	.....
John Yagy, milk.....	4.2	1.0305
Wm. Platt, milk.....	4.3	1.032
A. H. Varnell, milk.....	4.7	1.030

	% fat.	Sp. Gr.
March 12, 1908. Reedsburg.		
U. G. Druse, milk.....	4.5	1.031
W. L. Harris, milk.....	3.9	1.0325
C. P. Kerrigan, cream.....	34.5	.....
V. G. Druse, cream.....	24.4	.....

March 12, 1908. Elroy.

	% fat.	Sp. Gr.
Oliver Skinner, milk.....	4.0	1.031
R. Cain, milk.....	3.9	1.032
R. M. Trestrail, milk*.....	.....	.....
Oliver Skinner, cream.....	27.	.....

\* See chemist's report.

March 17, 1908. Portage.

	% fat.	Sp. Gr.
Geo. Standenmayer, milk.....	3.6	1.032
Geo. Standenmayer, cream.....	28.	.....
R. C. Meyer, milk.....	4.5	1.0323
R. C. Meyer, cream.....	18.	.....
O. J. Warren, milk.....	6.2	1.032
D. J. O'Keefe, milk.....	5.2	1.032
D. J. O'Keefe, cream.....	24.	.....
Theodore Gloeckler, milk.....	4.7	1.0323
W. C. Meyer, milk.....	4.	1.0316
Matt. Hettinger, milk.....	3.8	1.0320
Robert Theille, milk.....	3.6	.....
Robert Theille, cream.....	53.	.....

March 20, 1908. Green Bay.

	% fat.	Sp. Gr.
H. Armstrong, cream.....	18.4	.....
H. Armstrong, milk.....	4.2	1.032
Green Bay Pure Milk Co. (J. J. Schumacher), cream.....	29.6	.....
Green Bay Pure Milk Co. (J. J. Schumacher), milk.....	3.4	1.0316
Anderson & Wendrick, milk.....	3.2	1.0322
Anderson & Wendrick, cream.....	18.4	.....
A. F. Labelle, cream.....	30.	.....
A. F. Labelle, milk.....	3.6	1.0309
Green Bay Pure Milk Co. (J. J. Schumacher), milk.....	3.5	1.0314
Green Bay Pure Milk Co. (J. J. Schumacher), cream.....	24.4	.....
John Everhard, milk.....	4.7	1.0319
John Everhard, cream.....	20.2	.....
Anderson & Wendrick, milk.....	3.7	1.0317
Anderson & Wendrick, cream.....	19.0	.....
Mrs. Wm. Vandenbrook, cream.....	19.	.....
Mrs. Wm. Vandenbrook, milk.....	3.4	1.0319

—March 21, 1908. Albany.

	% fat.	Sp. Gr.
T. E. Graves, milk.....	4.7	1.0325

March 21, 1908 Prairie du Chien.

	% fat.	Sp. Gr.
Louis Cherrier, milk.....	4.0	1.031
Fenton Wachter, milk.....	3.6	1.0305
Ahrens Bros., milk.....	3.8	1.030
F. G. Wetzel, milk.....	4.3	1.031
Wm. Swingle, milk.....	3.3	1.030
Wm. Swingle, milk.....	3.1	1.030
Louis Cherrier, cream.....	14.	.....
Louis Cherrier, cream.....	27.	.....
Fenton Wachter, cream.....	16.4	.....
Ahrens Bros., cream.....	18.5	.....
F. G. Wetzel, cream.....	17.4	.....

March 24, 1908. Green Bay.

	% fat.	Sp. Gr.
H. E. Wilson, cream.....	18.4	.....
H. E. Wilson, milk.....	3.6	1.0318
Carl Schmidt, cream.....	23.6	.....
Carl Schmidt, milk.....	4.0	1.0321
Anderson & Wendrick, milk.....	3.6	1.0319
Anderson & Wendrick, cream.....	22.0	.....
Henry Melera, milk.....	3.9	1.0319
Henry Melera, cream.....	26.0	.....
Henry Melera, milk.....	3.9	1.0316
Henry Melera, cream.....	24.0	.....
H. J. Kreaser, milk.....	3.7	1.0319
H. J. Kreaser, cream.....	26.8	.....
John Brugman, milk.....	4.1	1.0322
Green Bay Pure Milk Co. (J. J. Schumacher), cream.....	26.0	.....

March 24, 1908. Ashland.

	% fat.	Sp. Gr.
Aug. Fiske, milk.....	3.2	1.032
Aug. Fiske, milk.....	3.3	1.032
A. P. Sinrud.....	4.2	1.0325
Fred Ellison, milk.....	3.4	1.032
Geo. Gray, cream.....	32.	.....
Geo. Gray, milk.....	4.4	1.032
A. H. Hosmer, milk.....	3.8	1.032
John Johnson, milk.....	3.6	1.032
John Helm, milk.....	4.1	1.0325
John Helm, cream.....	26.	.....
Christ Thompson, milk.....	3.6	1.0325
Nels Sornson, milk.....	3.8	1.0325
Gust. Miller, milk.....	3.2	1.032
Geo. Gay, cream.....	34.	.....

March 26, 1908. Hurley.

	% fat.	Sp. Gr.
Aug. Gabardi.....	3.8	1.032
James Hanley.....	3.5	1.0325
John Nelson.....	3.8	1.0325
Peter Nelson.....	4.2	1.031
Peter Nelson.....	5.2	1.030
W. M. Whittam.....	3.8	1.0315

April 4, 1908. Belleville.

	% fat.	Sp. Gr.
E. W. Scott, milk.....	3.6	1.030
Albert Garville, milk.....	3.8	1.0305
Hotel Stark, milk.....	4.2	1.0285

April 8, 1908. Watertown.

	% fat.	Sp. Gr.
Louis Funk, milk.....	3.6	1.0314
Louis Funk, cream.....	18.	.....
John Dobler, milk.....	3.8	1.0312
Wm. Ziegelman, milk.....	3.6	1.032
Miss E. C. Marquart, milk.....	4.	1.032
Herman Berganz, milk.....	4.2	1.032
Julius Doarr, milk.....	4.	1.032
William Frederick, milk.....	3.4	1.032
William Frederick, cream.....	28.5	.....
Gaenz Bros., milk.....	3.2	1.032
H. S. Gillis, milk.....	3.2	1.032

April 9, 1908. Jefferson.

	% fat.	Sp. Gr.
O. E. Puerner, milk.....	4.5	1.032
Mrs. C. E. Braman, milk.....	4.6	1.032

April 10, 1908. Lake Mills.

	% fat.	Sp. Gr.
C. A. Kuhl, milk.....	3.8	1.031
C. A. Kuhl, cream.....	28.	.....
O. Wodkil, milk.....	5.6	1.0324
O. Wodkil, cream.....	27.	.....
W. W. Campbell, milk*... ..	.....	.....

\* See chemist's report.

April 11, 1908. Fort Atkinson.

	% fat.	Sp. Gr.
W. E. Kyle, milk.....	4.	1.032
Earl Ralph, milk.....	4.	1.031
W. D. Hoard, milk.....	5.4	1.032
W. D. Hoard, cream.....	50.	.....
John Hetts, milk.....	5.6	1.031
John Hetts, cream.....	32.	.....
Wm. Braunschwig, milk..	4.8	1.031
Wm. Braunschwig, cream	30.	.....

May 12, 1908. Grand Rapids.

	% fat.	Sp. Gr.
W. H. Burns, milk.....	4.	1.0315
W. H. Burns, cream.....	22.	.....
F. Whittrock, R. 7, milk	3.8	1.031
D. C. Minard, R. 6, milk..	4.	1.030
D. C. Minard, R. 6, cream	29.	.....

May 16, 1908. Hartford.

	% fat.	Sp. Gr.
Jacob Wallrabenstein, milk	4.30	1.030
Jacob Wallrabenstein, cream	23.6	.....
Jacob Wallrabenstein, milk	3.80	1.0316
Fred Uebele, milk.....	4.10	1.031
Fred Uebele, cream.....	22.8	.....

May 16, 1908. 6th Ward Dairy, Madison. Managers, Anderson & Koerbe.

	% fat.	Sp. Gr.
(Milk.)		
Wm. Radke.....	4.3	1.031
Nels Stolen, .....	3.2	1.033
C. Busse, .....	3.5	1.031
Mrs. Walterscheidt.....	4.0	1.032
Wm. Maher .....	3.3	1.032
Ole Nelson .....	3.6	1.0325
John Little .....	3.4	1.0328
John Johnson .....	4.4	1.033
F. J. Field .....	3.4	1.031
Ellestad Bros.....	3.1	1.034
(Cream.)		
Geo. Herrington .....	20.8	.....
J. C. McLeish .....	19.6	.....



## CONVICTIONS.

Date.	Name and Address of Defendant.	Cause of Action.	Name and Address of Trial Justice.	Fine or Forfeiture.
1908. Jan. 23	Jacob Herman, Mgr. Liquor Dept., Boston Store, Milwaukee.	Selling for and as port wine a preparation containing glucose, artificial color and benzoic acid.	N. B. Neelen, Milwaukee.....	\$25 and costs.
Jan. 27	Chas. Olson, Knapp.....	Selling adulterated lard.	P. P. Clark, Menomonee.....	\$25 and costs.
Jan. 29	Schuckmann & Selligman, a corporation (Geo. Hatzel, clerk), Milwaukee.	Selling as and for port wine a preparation containing glucose, artificial color and benzoic acid.	N. B. Neelen, Milwaukee.....	*\$20 and costs.
Jan. 31	John Langhack, Green Bay....	Selling adulterated milk.....	M. J. Monahan, Green Bay.....	\$25 and costs.
Feb. 26	Mrs. Mary Puls, Fountain City	Selling adulterated cream.....	L. Dressendorfer, Fountain City.....	\$25 and costs.
Feb. 26	Wm. E. Barringer, Baraboo....	Selling adulterated spirit of nitrous ether.	L. H. Halsted, Baraboo.....	\$25 and costs.
Feb. 26	Wm. E. Barringer, Baraboo....	Selling adulterated spirit of camphor.	L. H. Halsted, Baraboo.....	\$25 and costs.
Mar. 4	Henry Lewis, Madison.....	Selling adulterated alcohol.....	L. H. Halsted, Baraboo.....	\$25 and costs.
Mar. 4	Henry Lewis, Madison.....	Selling adulterated spirit of camphor.	Anthony Donovan, Madison.....	\$25 and costs.
Mar. 6	Frank Ahrens, Prairie du Ch'n	Selling adulterated milk.....	Anthony Donovan, Madison.....	\$25 and costs.
Mar. 6	Fenton Wachter, Prairie du Chien.	Selling adulterated milk.....	C. C. Chase, Prairie du Chien.....	\$25 and costs.
Mar. 6	Wm. Swingle, Prairie du Ch'n	Selling adulterated milk.....	John Garrity, Prairie du Chien.....	\$25 and costs.
Mar. 16	J. D. Hatch, Lancaster.....	Selling adulterated laudanum.....	C. C. Chase, Prairie du Chien.....	\$25 and costs.
Mar. 16	J. Hoff, LaCrosse.....	Selling adulterated milk.....	David Schreiner, Lancaster.....	\$25 and costs.
Mar. 16	Kasper Zweifel, LaCrosse.....	Selling adulterated cream.....	J. Brindley, LaCrosse.....	\$25 and costs.
Mar. 17	Chas. Manske, LaCrosse.....	Selling adulterated cream.....	J. Brindley, LaCrosse.....	\$25 and costs.
Mar. 17	L. Casperson, LaCrosse.....	Selling adulterated cream.....	J. Brindley, LaCrosse.....	\$25 and costs.
Mar. 17	Mrs. F. McD., LaCrosse.....	Selling adulterated milk.....	J. Brindley, LaCrosse.....	\$25 and costs.
Mar. 17	J. V. Swift, Darlington.....	Selling adulterated tincture of iodine.	J. H. Clary, Darlington.....	\$25 and costs.
Mar. 17	Geo. F. Oates, Darlington.....	Selling adulterated tincture of iodine.	J. H. Clary, Darlington.....	\$25 and costs.
Mar. 20	J. A. Messerole and Geo. Horn, Mineral Point.	Selling adulterated tincture of iodine.	Henry Pitts, Mineral Point.....	\$25 and costs.
Mar. 21	Sol. Levitan, Madison.....	Selling catsup containing a chemical preservative.	Anthony Donovan, Madison.....	\$25 and costs.
Mar. 24	Fred H. Gadsby, Eau Claire..	Selling adulterated spirit of nitrous ether.	Jos. W. Singleton, Eau Claire.....	\$25 and costs.

\* Minimum fine under statute, \$25.

CONVICTIONS—Continued.

Date.	Name and Address of Defendant.	Cause of Action.	Name and Address of Trial Justice.	Fine or Forfeiture.
1908				
Mar. 25	A. A. Pardee, Madison.....	Selling adulterated spirit of camphor.	C. K. Tenney, Madison.....	\$25 and costs.
Mar. 27	Dr. A. R. Nash, Ellsworth.....	Selling adulterated spirit of nitrous ether.	C. Feuton, Ellsworth.....	\$25 and costs.
Mar. 28	K. A. Borgen, Eau Claire.....	Selling adulterated cream.	Jos. W. Singleton, Eau Claire.....	\$25 and costs.
Mar. 28	St. Croix Co-op Co. (Andrew Westerdahl), Hersey.....	Selling adulterated spirit of nitrous ether.	O. W. Arnquist, Hudson.....	\$25 and costs.
Mar. 28	N. W. Helmtz, Rice Lake.....	Selling adulterated laudanum.....	F. B. Kinsley, Barron.....	\$25 and costs.
Apr. 1	The Polk Co-on, Co. (Azarie Hatu, Agr.), Amery.....	Selling canned peas colored with phosphate of copper.	I. N. Knight, Clear Lake.....	\$25 and costs.
Apr. 1	John Klauack, Kiel.....	Selling unclean and unsanitary milk.	Albert Schmidt, Manitowoc.....	\$25 and costs.
Apr. 2	J. F. W. Schmidt, Oshkosh.....	Selling adulterated spirit of camphor.	A. H. Goss, Oshkosh.....	\$25 and costs.
Apr. 3	K. O. Knutzen, Manitowoc.....	Selling adulterated spirit of nitrous ether.	A. H. Schmidt, Manitowoc.....	\$25 and costs.
Apr. 3	J. E. Barnstein, Manitowoc.....	Selling adulterated hamamelis water..	A. H. Schmidt, Manitowoc.....	\$25 and costs.
Apr. 3	Ambrose Heinz, Lyons.....	Maintaining creamery premises and utensils in unclean and unsanitary condition.	J. E. Fuller, Elkhorn.....	\$25 and costs.
Apr. 6	W. H. Smith, Eau Claire.....	Selling adulterated cream.	Jos. W. Singleton, Eau Claire.....	\$25 and costs.
Apr. 8	Dr. Hugh F. McDonald, Hollandale.....	Selling adulterated laudanum.....	T. H. Arthur, Dodgeville.....	\$25 and costs.
Apr. 10	F. J. Federspiel, Port Washington.....	Maintaining in unclean and unsanitary condition premises where milk was sold.	Wm. A. Tholen, Port Washington.....	Appealed. \$25 and costs.
Apr. 10	D. H. Pollock, Beloit.....	Selling hamamelis water containing wood alcohol.	C. D. Rosa, Beloit.....	\$25 and costs.
Apr. 15	Collette Drug Store, Chippewa Falls.....	Selling adulterated spirit of camphor..	F. W. Jenkins, Chippewa Falls.....	\$25 and costs.
Apr. 15	C. G. Suits, Medford.....	Selling adulterated tincture of iodine..	T. G. Jeffers, Medford.....	\$25 and costs.
Apr. 15	L. W. Stanton, Chippewa Falls.....	Selling adulterated laudanum.....	F. W. Jenkins, Chippewa Falls.....	\$25 and costs.
Apr. 16	Purdy Drug Co. (Evan Hughes Clerk), Portage.....	Selling adulterated spirit of camphor..	A. R. Bunker, Portage.....	\$25 and costs.
Apr. 16	F. A. Rhymer, Portage.....	Selling adulterated spirit of camphor..	A. R. Bunker, Portage.....	\$25 and costs.
Apr. 16	Dr. Chas. Kossat, Milwaukee.....	Selling spirit of camphor below legal standard in camphor and containing wood alcohol.	N. B. Neelen, Milwaukee.....	\$25 and costs.

## CONVICTIONS—Continued.

Date.	Name and Address of Defendant.	Cause of Action.	Name and Address of Trial Justice.	Fine or Forfeiture.
1908.				
Apr. 16	Henry B. Stanz, Milwaukee....	Selling adulterated cheese. ....	N. B. Neelen, Milwaukee.....	\$25 and costs.
Apr. 17	Wm. Steinneyer Co. (Henry A. Eichfeld, Agt.), Milwaukee.	Selling adulterated cheese. ....	N. B. Neelen, Milwaukee.....	\$25 and costs.
Apr. 17	Adolf Dernehl, Milwaukee.....	Selling adulterated cheese. ....	N. B. Neelen, Milwaukee.....	\$25 and costs.
Apr. 17	Ferd. Latsch, Lake Mills....	Delivering adulterated milk to a creamery.	G. F. Krebs, Jefferson.....	\$25 and costs.
Apr. 17	Aug. Heise, Muskego .....	Offering adulterated milk to a creamery.	C. E. Armin, Waukesha.....	\$25 and costs.
Apr. 18	John Loughney, Muskego.....	Offering adulterated milk to a creamery.	C. E. Armin, Waukesha.....	\$25 and costs.
Apr. 21	John Kelly, Muskego.....	Offering adulterated milk to a creamery.	C. E. Armin, Waukesha.....	\$25 and costs.
Apr. 21	John Spitzner, Sr., Muskego..	Offering adulterated milk to a creamery.	C. E. Armin, Waukesha.....	\$25 and costs.
Apr. 24	Wm. Lorentz, Milwaukee.....	Selling adulterated tincture of iodine.	N. B. Neelen, Milwaukee.....	\$25 and costs.
Apr. 25	E. M. Worden, Ladysmith....	Selling canned peas containing a copper compound.	O. G. Briggs, Bruce.....	\$25 and costs.
Apr. 28	L. L. Rowe, Madison.....	Selling a maple syrup mixture unlawfully labeled.	Anthony Donovan, Madison.....	\$25 and costs.
Apr. 30	F. J. Pauly, Port Washington	Maintaining cheese factory premises and utensils in unclean and unsanitary condition.	N. E. Wilson, Port Washington.....	Appealed. (See May 15.) \$25 and costs.
May 1	W. C. Wendt, Kaukauna.....	Selling adulterated spirit of nitrous ether.	T. H. Ryan, Appleton.....	\$25 and costs.
May 1	Frank Blumenstein, Berlin....	Maintaining creamery premises in unclean and unsanitary condition.	Fred Engelbracht, Berlin.....	\$25 and costs.
May 2	J. B. Esser, Madison.....	Selling a maple syrup mixture not lawfully labeled.	Anthony Donovan, Madison.....	\$25 and costs.
May 2	G. W. Campbell, Lake Mills....	Selling adulterated milk.....	C. D. Root, Lake Mills.....	Appealed. (See May 15.) \$25 and costs.
May 5	Frank Pauly, Belgium.....	Maintaining cheese factory premises and utensils in unclean and unsanitary condition.	Richard Hoffman, Port Washington....	\$25 and costs.

CONVICTIONS—Continued.

Date.	Name and Address of Defendant.	Cause of Action.	Name and Address of Trial Justice.	Fine or Forfeiture.
1908. May 6	Chas. Thlex, Oshkosh.....	Maintaining utensils in unclean and unsanitary condition and premises where milk was sold.	A. H. Goss, Oshkosh.....	\$25 and costs.
May 7	Carl Sorenson, Fond du Lac..	Maintaining creamery premises and utensils in unclean and unsanitary condition.	D. S. Blewitt, Fond du Lac.....	\$25 and costs.
May 8	Wm. Bender, Milwaukee.....	Selling spirit of camphor below legal standard in camphor and containing wood alcohol.	N. B. Neelen, Milwaukee.....	\$25 and costs.
May 8	Adolph and Leslie Eckhardt, Milwaukee	Selling adulterated tincture of iodine.	N. B. Neelen, Milwaukee.....	\$25 and costs.
May 8	Wm. Tetch, Milwaukee.....	Selling adulterated spirit of camphor..	N. B. Neelen, Milwaukee.....	\$25 and costs.
May 8	A. E. Kienth, Milwaukee.....	Selling adulterated spirit of camphor..	N. B. Neelen, Milwaukee.....	\$25 and costs.
May 8	A. Luethe, Milwaukee.....	Having in possession with intent to sell unclean and unsanitary milk.	A. H. Schmidt, Manitowoc.....	\$25 and costs.
May 11	Roy Davis, Manitowoc.....			
May 15	L. L. Rowe, Madison.....	Selling a maple syrup mixture not lawfully labeled. Appeal from verdict rendered by Judge Donovan. Municipal Court, Madison.	Jas. O'Neill, sitting for E. R. Stevens, Circuit Court, Madison.	\$25 and costs.
May 15	J. B. Esser, Madison.....	Selling a maple syrup mixture not lawfully labeled. Appeal from verdict rendered by Judge Donovan. Municipal Court, Madison.	Jas. O'Neill, sitting for E. R. Stevens, Circuit Court, Madison.	\$25 and costs.
May 18	John Myrechuck, Plainfield, R. D.	Delivering adulterated milk to a creamery.	R. W. Hubbell, Wautoma.....	\$25 and costs.
May 18	F. W. Medland, Oshkosh.....	Selling adulterated spirit of camphor..	A. H. Goss, Oshkosh.....	\$25 and costs.
May 18	J. H. Schroeder, Oshkosh.....	Selling a mixture of glucose and refinners' syrup not lawfully labeled.	A. H. Goss, Oshkosh.....	\$25 and costs.
May 19	T. H. Grady, Oregon.....	Selling a mixture of glucose and refinners' syrup not lawfully labeled.	Anthony Donovan, Madison.....	\$25 and costs. Appealed.
May 19	Geo. McDermott, Oregon.....	Selling a mixture of glucose and refinners' syrup not lawfully labeled.	Anthony Donovan, Madison.....	\$25 and costs. Appealed.
May 20	Wm. H. Meler (Meler & Kelly), Madison.	Selling a maple syrup mixture not lawfully labeled.	Anthony Donovan, Madison.....	\$25 and costs.

## CONVICTIONS—Continued.

Date.	Name and Address of Defendant.	Cause of Action.	Name and Address of Trial Justice.	Fine or Forfeiture.
1908, May 21	S. A. Piper, Madison.....	Selling canned "Maraschino" cherries containing chemical preservatives and artificial color.	Anthony Donovan, Madison.....	\$25 and costs.
May 22	A. R. Nitz, Milwaukee.....	Selling pop containing saccharin.....	N. B. Neelen, Milwaukee.....	\$25 and costs. Appealed. (See June 29.)
May 23	Nicholas Karis, Malone.....	Maintaining creamery premises and utensils in unclean and unsanitary condition.	D. F. Blewitt, Fond du Lac.....	\$25 and costs.
June 3	Ira Billings, Allenville.....	Maintaining cheese factory premises and utensils in unclean and unsanitary condition.	Nels Jenssen, Neenah.....	\$25 and costs.
June 4	Fred E. Hubbard, MacFarland	Selling a mixture of glucose and maple syrup not lawfully labeled.	Anthony Donovan, Madison.....	\$25 and costs.
June 4	J. P. Braun, Malone.....	Maintaining creamery premises in unclean and unsanitary condition.	R. C. Fairbank, Fond du Lac.....	\$25 and costs.
June 12	Albert Eichhorst, Stevens Pt..	Maintaining in unclean and unsanitary condition utensils used in handling milk for sale.	G. L. Park, Stevens Point.....	\$25 and costs.
June 16	Geo. Jensen, Melvina.....	Maintaining creamery utensils in unclean and unsanitary condition.	H. E. Kelley, Sparta.....	\$25 and costs.
June 16	E. E. Allen, Spooner.....	Selling a maple syrup mixture not lawfully labeled.	Andrew Ryan, Shell Lake.....	\$25 and costs.
June 16	Alex. Gorecke, Rosholt.....	Maintaining creamery premises and utensils in unclean and unsanitary condition.	G. L. Park, Stevens Point.....	\$25 and costs.
June 16	Frank Nowacke .....	Offering unclean and unsanitary milk to a creamery.	Edward Harroun, Princeton.....	\$25 and costs.
June 17	A. J. Humphrey Drug Co. (W. N. White, Agt.), Water- loo.	Selling adulterated spirit of camphor...	A. W. Redemann, Waterloo.....	\$25 and costs.
June 17	Geo. Soulk, Custer.....	Maintaining creamery premises and utensils in unclean and unsanitary condition.	G. L. Park, Stevens Point.....	\$25 and costs.

CONVICTIONS—Continued.

Date.	Name and Address of Defendant.	Cause of Action.	Name and Address of Trial Justice.	Fine or Forfeiture.
1908, June 18	Richard Bielke, Brandon.....	Maintaining creamery premises and utensils in unclean and unsanitary condition.	R. C. Fairbank, Fond du Lac.....	\$25 and costs.
June 24	Geo. Schils, Port Washington.	Maintaining cheese factory premises and utensils in unclean and unsanitary condition.	N. E. Wilson, Port Washington.....	\$25 and costs.
June 28	Oscar Bartelt, Campbellsport.	Maintaining cheese factory premises and utensils in unclean and unsanitary condition.	R. C. Fairbank, Fond du Lac.....	\$25 and costs.
June 29	Chas. Gartman, Sheboygan....	Maintaining cheese factory premises and utensils in unclean and unsanitary condition.	Jacobus DeSchmidt, Sheboygan.....	\$25 and costs.
June 29	A. R. Nitz, Milwaukee.....	Selling pop containing saccharin. Appeal from verdict rendered by N. B. Neelen. District Court, Milwaukee.	A. C. Brazee, Municipal Court, Milwaukee.	\$25 and costs.
June 30	David Goldberg, Antigo.....	Selling unlicensed concentrated feeding stuff.	W. F. White, Antigo.....	\$25 and costs.
June 30	Fred Maiden, Bristol.....	Maintaining creamery premises and utensils in unclean and unsanitary condition.	G. B. McCarron, Kenosha.....	Appealed. \$25 and costs.

## RELATING TO THE JURISDICTION OF THE COMMISSIONER.

STATE OF WISCONSIN,  
*Office of Dairy and Food Commission,*  
MADISON, Wis., March 17, 1908.

HON. F. L. GILBERT,  
*Attorney General,*  
Madison, Wis.

DEAR SIR: Frequent requests are made by different citizens of the state, and county, village and town officers for the analysis of beverages for the determination of their alcohol content with a view of prosecuting violators of the liquor license laws. During the year 1907 thirty-eight such requests came to this commission. In none of these cases were the samples suspected of being adulterated within the meaning of the Wisconsin food laws. This condition of affairs has led us to a renewed consideration as to the legal function of this commission in relation to these requests.

I call your attention to section 1410b and section 1410c of the statutes of 1898, and I request your official opinion as to the legal duties of this commission in the class of cases herein referred to; that is to say, requests to analyze spirituous or malt liquors for the purpose of determining their alcohol content with a view to prosecution under the liquor license laws.

Very truly yours,

J. Q. EMERY,  
*Commissioner.*

OFFICE OF ATTORNEY GENERAL,  
MADISON, Wis., March 18, 1908.

HON. J. Q. EMERY,  
*Dairy and Food Commissioner,*  
Madison, Wisconsin.

DEAR SIR: I am in receipt of your favor of the 17th inst. in which you state that numerous requests have been made upon you by different citizens of the state and also county, village and town officers, to analyze beverages for the determination of their alcoholic contents and with a view of prosecuting violators of the Excise Law, and you call my attention to section 1410b and section 1410c of the Statutes of 1898, and request my opinion as to whether or not it is your duty to have analyses of this nature made for the purpose of laying the foundation for a prosecution for a violation of said Excise Laws.

In reply to the same will say that I am clearly of the opinion that such work by your department was not contemplated by the legislature and that you are under no obligation to have such analyses made for the purpose stated, and furthermore, that it is no part of your duty to have your subordinates collect samples of beverages or to enter places where the same are sold with the object in view of assisting district attorneys in the enforcement of the Excise Law. While it is true that you are vested with great power and authority along the lines of seizing and analyzing all substances used for food or drink, it must be borne in mind that the theory of such work and investigation is to improve and maintain the standard of articles sold to the people for the purpose of being consumed by them as food and drink, as distinguished from the quantity of alcohol in a given beverage as to whether or not the same is intoxicating or non-intoxicating.

When I was district attorney of Dane county I had occasion to have approximately one hundred analyses made of so-called non-intoxicating beverages for the purpose of prosecuting alleged offenders for violation of the Excise

Law, but in no instance did I consider it a part of the duty of the dairy and food commissioner to aid me in any way along the lines suggested by the different requests made of you. The seizures and analyses were made under specific laws providing for such methods of enforcing the Excise Law and the expense of having all the analyses made was borne, and properly so, by Dane county. Chapter 230, laws of 1905, expressly provides for the seizure and examination of alleged intoxicating liquors sold in violation of law, the execution of which is entirely within the hands of the district attorney of each county.

I do not wish to be understood, by the foregoing, that you have no right to take the initiative if, in your judgment, you see fit to secure and have analyzed intoxicating or non-intoxicating beverages which are being sold in this state for the purpose of ascertaining whether or not they are deleterious and injurious to public health. My opinion is in answer to your question solely, that is, as to whether or not you are expected to do this work in aid of prosecution for an alleged violation of the Excise Laws as we find them on our statute books.

Very truly yours,

F. L. GILBERT,  
*Attorney General.*



## BENZOIC ACID AND BENZOATES.

UNITED STATES DEPARTMENT OF AGRICULTURE, BUREAU OF  
CHEMISTRY. CIRCULAR NO. 39, ISSUED JULY 20, 1908. H. W.  
WILEY, CHIEF OF BUREAU.

### GENERAL RESULTS OF THE INVESTIGATION SHOWING THE EFFECT OF BENZOIC ACID AND BENZOATES UPON DIGESTION AND HEALTH.

#### INTRODUCTION.

In the continuation of the work described in Parts I to III of this bulletin, experiments were conducted, according to the general plan already described, to determine the effects of benzoic acid and benzoates upon health and digestion. This investigation is of special importance because of the opinion held by many manufacturers, food officials, and consumers that benzoic acid and benzoates are probably the least harmful of the preservative substances employed. It is believed that for this reason there has been a very large increase in the use of these preservatives in the last few years, with a corresponding decrease in the amount of other preservative substances employed. It has also been claimed that there can be no reasonable objection to the use of benzoic acid by reason of its natural occurrence in many food products, either in traces or in considerable quantities. Among the products cited the cranberry occupies the most prominent position because of the notable amount of benzoic acid it contains. These considerations, however, had no determining influence on the choice of this substance for the experimental work, inasmuch as it was included in the original scheme which was prepared before the work reported in Part I was begun.

The same principles which guided the organization of the work as described in Part I were followed in the present instance. Upon the selection of the members of the hygienic table each man was subjected to a thorough medical examination of the character already described. No one was admitted to the table who was suffering from any organic disease, who manifested any tendency to hereditary disease, or who had been seriously ill within the year previous to the beginning of the experimental work.

The delay which has attended the presentation of this report for publication has been due to several causes. First, the great burden of collating the data, condensing the analytical tables, and checking the data for accuracy, required, as is usual in such cases, a large amount of time and expert labor. There were also a number of points brought out in the investigations which required further study of the question, both experimentally and in consulting authorities thereon.

Another reason for the delay consisted in the fact that various representations were making on the part of manufacturers and others respecting the effect upon the industries using benzoic acid should the conclusions reached in this report receive executive and judicial confirmation. It was thought advisable, therefore, to give ample time to the industries involved to experiment with methods of manufacture looking to the elimination of objectionable preservatives. Investigations were also undertaken by this Bureau in collaboration with the manufacturing interests along the same line. Results of these investigations have shown that there is not a single article of food which has been commonly preserved by means of benzoic acid or benzoate of soda which can not be preserved and offered to the consumer in perfect condition without the

aid of any chemical preservative. This fact has been completely demonstrated in the case of cider and grape juice, mince-meat, jelly, jams, catsups, preserves, and other articles of the same character, and there seems, therefore, to be no longer any industrial reason for delaying publication even if the former necessity for such delay be admitted.

It is believed that the distribution of the results of this investigation at the present time will neither work hardship to any manufacturing interest nor interfere in any way with any legitimate business. At the same time it will indicate to the manufacturer, as well as to the consumer, the important truth that the use of benzoic acid or benzoate of soda as a preserving medium is not without danger, that its effects are always injurious or tend to injury, and that its exclusion from food products is desirable not only in order to conform to the food and drugs act but also for hygienic reasons.

The greater care which is required in the manufacture of food products without the use of benzoic acid or benzoate of soda, necessitating the use of a higher quality of raw material, will place the industries which would otherwise use these preservatives in foods on a better plane, and secure for their products a greater consumption.

#### GENERAL CONCLUSIONS.

From a careful study of the data in the individual cases and of the summaries of the results, it is evident that the administration of benzoic acid, either as such or in the form of benzoate of soda, is highly objectionable and produces a very serious disturbance of the metabolic functions, attended with injury to digestion and health.

As in the case of boric acid, salicylic acid, and sulphurous acid, this injury manifests itself in a number of different ways, both in the production of unfavorable symptoms and in the disturbance of metabolism. These injurious effects are evident in the medical and clinical data, which show great disturbances of digestion, attended by phenomena which are clearly indicative of irritation, nausea, headache, and, in a few cases, vomiting. These symptoms were not only well marked, but they were produced upon healthy individuals, receiving good and nourishing food and living under proper sanitary conditions. It is only fair to conclude, therefore, that under similar conditions of administration of benzoic acid or benzoate of soda in the case of weaker systems, or less resistant conditions of health, much more serious and lasting injury would be produced.

It was also noticed that the administration of benzoic acid and benzoate of soda was attended with a distinct loss of weight, indicative of either a disturbance of assimilation or an increased activity in those processes of the body which result in destruction of tissue. The production of a loss of weight in cases of this kind must be regarded as indicative of injurious effects.

The influence of the benzoic acid and benzoate of soda upon metabolism was never of a character indicative of a favorable change therein. While often the metabolic changes were not strongly marked, such changes as were established were of an injurious nature. It is evident that the administration of these bodies, therefore, in the food tends to derange metabolism in an injurious way.

An important fact in connection with the administration of these bodies is found in the efforts which nature makes to eliminate them from the system. In so far as possible the benzoic acid is converted into hippuric acid. There is a tendency usually manifested, however, to retain the benzoic acid in the body for a notable length of time, and this is much more marked in the case of benzoate of soda than in the case of benzoic acid.

While the administration of both these bodies, therefore, is undoubtedly harmful, the injurious effects are produced more rapidly in the case of benzoic acid than they are in the case of benzoate of soda; the data, however, will show that the total harmful effect produced in the end is practically the same in both cases; hence there appears to be no reason for supposing that the administration of the preservative in the form of benzoate of soda can be justified by any argument relating to the less injurious effect thereof upon health.

The occurrence of microscopic bodies in the urine is undoubtedly increased under the administration of benzoic acid in both forms, thus showing conclusively the tendency to stimulate the destructive activities of the body.

Coming to the final consideration of all of these different phases of the subject, there is only one conclusion to be drawn from the data which have been presented, and that is that in the interests of health both benzoic acid and benzoate of soda should be excluded from food products. This conclusion is reached independently of any consideration of the conditions which it is alleged surround the processes of manufacture and which result in the demands of manufacturers to be allowed to continue the use of these substances. This is a subject which must be discussed from an entirely different point of view and has no bearing whatever upon the general conclusions which have been reached, namely, that both benzoic acid and benzoate of soda are bodies which, when added to foods, are injurious to health.

H. W. WILEY, M. D.,  
Chief, Bureau of Chemistry.

Approved:  
JAMES WILSON,  
Secretary of Agriculture.  
WASHINGTON, D. C., May 14, 1908.

## STATE vs. MEYER.

(Supreme Court of Wisconsin, Jan. 8, 1908.)

Error to Circuit Court, Jefferson County; George Grimm, Judge.

F. H. Meyer and another were convicted of selling an article in imitation of yellow butter contrary to St. 1898, § 4607c, as amended by Laws 1901, p. 185, c. 151, and they bring error. Reversed.

Error to the circuit court for Jefferson county to review the conviction of the plaintiffs in error. The information charged that the plaintiffs in error (hereinafter called defendants) at the county of Jefferson did unlawfully, by themselves, their agents and servants, have in their possession with intent to sell, and did offer and expose for sale, and did sell, a certain article, product, and compound which was made partly out of fat oil and oleaginous substance, and partly of a compound thereof, and neither the said article, product, or compound, nor the said fat oil and oleaginous substance, nor the said compound thereof, was produced from unadulterated milk, or from cream from unadulterated milk, and said article, product and compound, and said substance of said compound contained the admixture and addition of fat foreign to unadulterated milk, and foreign to unadulterated cream, and said article, product, or compound was then and there in imitation of yellow butter, with or without coloring matter, such butter being produced from said unadulterated milk, or cream from the same, etc.; that said article was in fact oleomargarine and in imitation of yellow butter, etc. There was a verdict of guilty, and certain specific errors hereinafter noted are assigned in the reception and rejection of evidence in refusing to direct a verdict of not guilty, and in instructing the jury. Among other references plaintiffs in error cited the following cases: *State v. Commonwealth*, 34 Wis. 162; *Mims v. United States*, 15 Pet. (U. S.) 423, 10 L. Ed. 791; 4 *Rose's Notes*, 121; *Cliff v. United States*, 195 U. S., 159, 25 Sup. Ct. 1, 49 L. Ed. 139; *Brown v. C. & N. W. Ry. Co.*, 102 Wis. 137, 77 N. W. 748, 78 N. W. 771, 44 L. R. A. 579; *Plumley v. Massachusetts*, 155 U. S. 461, 15 Sup. Ct. 154, 39 L. Ed. 223; *Section 4607d, St. 1898*; *Louisville & N. R. Co. v. Commonwealth*, 99 Ky. 132, 35 S. W. 129, 33 L. R. A. 209, 59 Am. St. Rep. 457; *L. & N. R. Co. v. Railroad Co. (C. C.)* 19 Fed. 679; *Railroad Commissioners' Case*, 116 U. S. 336, 6 Sup. Ct. 334, 388, 1191, 29 L. Ed. 636; *Tozer v. United States (C. C.)* 52 Fed. 917; *Yick Wo v. Hopkins*, 118 U. S. 356, 6 Sup. Ct. 1064, 30 L. Ed. 220; *State ex rel. v. Chittenden*, 127 Wis. 468, 107 N. W. 500; *Wis. Keeley Inst. v. Milwaukee County*, 95 Wis. 153, 70 N. W. 68, 36 L. R. A. 55, 60 Am. St. Rep. 105; *C. B. & Q. Ry. Co. v. People of State of Illinois*, 200 U. S. 561, 26 Sup. Ct. 341, 50 L. Ed. 598; *McCray v. United States*, 195 U. S. 27, 24 Sup. Ct. 769, 49 L. Ed. 78; *Schollenberger v. Pennsylvania*, 171 U. S. 1, 18 Sup. Ct. 757, 43 L. Ed. 49; *Powell v. Pennsylvania*, 127 U. S. 678, 8 Sup. Ct. 992, 32 L. Ed. 253; *Lochner v. N. Y.*, 198 U. S. 45, 25 Sup. Ct. 539, 49 L. Ed. 937; *Mugler v. Kansas*, 123 U. S. 623, 8 Sup. Ct. 273, 31 L. Ed. 205; *Collins v. New Hampshire*, 171 U. S. 30, 18 Sup. Ct. 768, 43 L. Ed. 60; *Tiedeman on Police Power*, 510; *Lawton v. Steele*, 152 U. S. 133, 14 Sup. Ct. 499, 38 L. Ed. 385; *Holden v. Hardy*, 169 U. S. 366, 18 Sup. Ct. 383, 42 L. Ed. 780; *Section 4607e, St. 1898*. Among other references defendant in error cited the following cases: *Section 4607c, St. 1898*; *Leisy v. Hardin*, 135 U. S. 100, 10 Sup. Ct. 681, 34 L. Ed. 128; *Capital City D. Co. v. Ohio*, 183 U. S. 238, 22 Sup. Ct. 120, 46 L. Ed. 171; *In re Rahrer, Petitioner*, 140 U. S. 545, 11 Sup. Ct. 865, 35 L. Ed. 572; *Act May 9, 1902, c. 784, 32 Stat. 194* [U. S. Comp. St. Supp. 1907, p. 6361]; *Harrington v. Smith*, 28 Wis. 43; *State v. Shove*, 96 Wis. 1, 70 N. W. 312, 37 L. R. A. 142, 65 Am. St. Rep. 17; *Chippewa B. Co. v. Durand*, 122 Wis. 85, 99 N. W. 608, 106 Am. St. Rep. 931; *Canterbury v. N. W. Mut. L. I. Co.*, 124 Wis. 169, 102 N. W. 1096; *Lehmann v. Farwell*, 95 Wis. 185, 70 N. W. 170, 37 L. R. A. 333, 60 Am. St. Rep. 111; *Von Rueden v. State*, 96 Wis. 671, 71 N. W. 1048; *Brown v. C. & N. W. Ry. Co.*, 102 Wis. 137, 77

N. W. 748, 78 N. W. 771, 44 L. R. A. 579; State v. Hartfiel, 24 Wis. 60; Clark, Cr. Law, pp. 68, 70; United States v. Susan B. Anthony, 11 Blatchf. (U. S.) 200, Fed. Cas. No. 14,459; Douglas v. State, 4 Wis. 387; Hannon v. State, 70 Wis. 448, 36 N. W. 1; Barnard v. State, 88 Wis. 656, 60 N. W. 1058; Spear v. Sweeney, 88 Wis. 545, 60 N. W. 1060.

Quarles, Spence & Quarles (Charles Quarles, of counsel), for plaintiff in error. Frank L. Gilbert, Atty. Gen. (Olin & Butler and L. E. Gettle, of counsel), for the State.

TIMLIN, J. (after stating the facts as above), section 4607c, statutes 1898, as amended by chapter 151, p. 185, Laws 1901, under which the defendants were convicted, and so far as material here, provides that any person who "shall by himself, his agent or servant, render or manufacture, sell or solicit or accept orders for, ship, consign, offer or expose for sale, or have in possession with intent to sell, any article, product or compound made wholly or partly out of any fat oil or oleaginous substance or compound thereof, not produced from unadulterated milk or cream from the same, and without the admixture or addition of any fat foreign to said milk or cream, which shall be in imitation of yellow butter produced from such milk or cream with or without coloring matter," shall be punished, etc. "Nothing in this section shall be construed to prohibit the manufacture or sale of oleomargarine in a separate and distinct form and in such manner as will advise the consumer of its real character and free from coloration or ingredient that causes it to look like butter." We cannot consider the last quoted sentence as enlarging in any degree the preceding prohibitory or descriptive words of the statute. Manufacturing, selling, or having in possession with intent to sell a described product is prohibited. Following this by a provision that the preceding words shall not be construed to prohibit the manufacture, or sale, etc., of oleomargarine in a certain manner, and of a certain kind, merely indicates that in the exercise of abundant caution the Legislature forbade the extension of the prohibition mandate of the statute so as to take in or exclude that which is described as excluded. There is a common form of expression often found in statutes and other writings where a general word or words followed by an excepted thing or instance is somewhat broadened by such exception because of the inference that the exception noted is the only exception. But the form of expression under consideration is not within that rule. The last sentence may, however, in connection with other statutes relating to the same subject-matter, such as section 4607d, St. 1898, perform some office as an aid in construction; that is to say, in determining upon what particular ground of police regulation these statutes are founded, and whether or not the Legislature intended to recognize as lawful in this state the manufacture, possession, and sale of oleomargarine as a commodity subject to the regulations found in the statutes.

It is established by the evidence, and conceded upon the argument, that the oleomargarine in question is a healthful food product compounded of oleo oil extracted from beef tallow, neutral lard, cotton seed oil, and salt. The statutes referred to recognize the right to manufacture, sell, and deal in this product. The question whether the Legislature possesses the power to forbid its manufacture, sale, or use in this state is not before us. It being conceded that the product contains no ingredient injurious or dangerous to health, and the statutes containing provisions recognizing the right to sell, but requiring the seller to disclose the nature of the article sold, and forbidding the product to be in imitation of yellow butter, it must follow that this police regulation respecting the manufacture and sale relates, not to the public health, but to the public safety, that is, to the prevention of frauds or imposition. The statute must be construed accordingly. It was known to the Legislature when this law was enacted that butter varies in color from nearly white to yellow. The compound prohibited is only that kind of oleomargarine which shall be in imitation of yellow butter. The statute apparently recognizes the right of a producer of whiteish or light-colored butter to escape from the competition of oleomargarine by dyeing his butter yellow. This has some bearing upon the construction of the statute. But the same statute authorizes the sale of oleomargarine unless it shall be in imitation of yellow butter. The words "yellow butter" require no definition to explain their meaning. They are used in this statute in the popular, rather than in any trade, or technical, sense. They define themselves. And first of all it must be obvious that yellow butter does not mean all kinds of butter. Yet the trial court instructed the jury as follows: "Butter, that is, natural butter, as is shown by the undisputed testimony in this case, and as is a matter of common knowledge, varies in the degree of yellow from light straw color in winter to a rich light orange yellow in the summer. Colored butter varies from a shade of yellow somewhat more pronounced than the natural color of winter butter to shades higher than the highest natural color of summer butter, and all these shades of yellow in butter come within the protection of this law, and it is equally forbidden to sell oleomargarine in imitation of the lightest shade of yellow butter, colored or uncolored, as it is of the most pronounced or intermediate shades." Here the jury are informed that natural butter as a matter of common knowledge varies between certain shades of yellow. This must have been understood by the jury to mean all natural butter. This is the ordinary and natural import of the

language. It may be that there is no purely white butter, and that placed alongside of white paint the whitest butter would show a yellow tinge, and it may be that light straw color approximates white but never quite reaches it. But after having assumed this to be true, and after having thus described butter generally, when the court charged the jury that it was forbidden to sell oleomargarine in imitation of the lightest shade of yellow butter, colored or uncolored, as much as it was forbidden to sell it in imitation of the most pronounced or intermediate shades, he added to the statute something not found therein, and it laid down a rule of law which, if followed by this court, would go far to convict the lawmakers of having, under pretense of making a police regulation to prevent fraud, enacted a law to exclude all competition of oleomargarine with all kinds of butter. This was error.

We are also convinced that the trial court erred in the reception of evidence. After the witness W. D. Hoard testified that he was familiar with the shade of yellow butter that is manufactured and sold in Wisconsin for the markets of Chicago, Elgin, and New York, he was shown the oleomargarine in which the defendants had been dealing, and which was offered and received in evidence as Exhibit A, and asked, "Q. How does that article, Exhibit A, compare in color with the color of butter that is manufactured here in this part of the state for those markets?" An objection to this question was overruled, and we consider that ruling erroneous for reasons to be given. The witness J. G. Moore was asked, "Q. I will ask you to state in your judgment whether Exhibit A would pass as far as color is concerned for the markets of Elgin, New York, Milwaukee, and Chicago?" There was similar error in overruling an objection to this question. The samples of cotton seed oil, Exhibit 7, light-colored oleo oil, Exhibit 8, yellow oleo oil, Exhibit 9, and neutral lard, Exhibit 10, were properly received in evidence, because the testimony of the witnesses positively identified them as such oils and lard, and it was shown they were ingredients entering into the manufacture of oleomargarine generally and of the article in question. The experimental Exhibits F and G were also properly admitted in evidence, and the same is true of Exhibits H and I. The inquiry in a criminal prosecution under this statute may for the purpose of analysis be divided into two branches: (1) Does the compound in question come within the prohibition of the statute? (2) Did the accused sell, ship, consign, etc., this compound?

1. With reference to the first branch of the inquiry, viz.: Is the article in question an article, product or compound made wholly or partially out of any fat oil or oleaginous substance not the product of milk or cream, and which is in imitation of yellow butter?—it does not tend to establish the affirmative of this simple issue of fact, but rather to confuse it when evidence is offered to show how the article in question compares in color with the color of butter that is manufactured in this part of the state for the markets of Chicago, Elgin, and New York. The article is to be compared with yellow butter by direct testimony of any person who is able to testify on the subject, and that will include all ordinary witnesses except those who show affirmatively their lack of knowledge or some degree of color blindness. These reasons exclude any evidence in regard to whether or not the article in question would pass as far as color is concerned for the markets of Elgin, Chicago, Milwaukee, and New York, or in any other market. Such evidence tends to lead the jury away from the true point of inquiry, and, having received the sanction of the court by his ruling admitting it, and thereafter in the charge to the jury must be deemed to have had a prejudicial effect. The jury were thus led to compare the article or compound in question, not with the terms of the statute, but with some rule or criterion not found in the statute. It would be adding to the statute to construe it as prohibiting the sale of a compound in imitation of any very light shade of yellow butter, or in imitation of some shade of yellow butter which met the demands of the market, or the standard of the operators at Elgin or elsewhere, if such shade or standard was not in fact yellow butter within the plain and popular meaning of these terms. If such standard was yellow butter within the ordinary and popular meaning of these terms, then the evidence was immaterial but misleading.

One of the contentions of plaintiffs in error is: "The court erred in instructing the jury that, although the color of Exhibit A was produced solely by its ingredients they were to consider the claim made by the state that the ingredients were so selected and used in the manufacture of the oleomargarine sold, in such manner and in such quantities and proportion as to produce the oleomargarine so sold which was then and there in imitation of yellow butter." The question whether the article sold by the defendants was the identical thing which is contraband by statute must be determined by the testimony of witnesses who have seen it, or by the testimony of witnesses, aided by an inspection of the article itself, and its resemblance to yellow butter is a factor in such determination. If the article is in imitation of yellow butter, it matters not whether such imitation is brought about by the addition of a dye or by the selection of ingredients. Color is the impression given to the eye by lines of light of various rates of vibration. The reason for the natural color of bodies is a difficult subject, and one that is scarcely yet understood. It has perhaps some relation to the molecular or atomic structure of such bodies, but there is no scientific distinction so far as producing color is concerned between imitating or producing color by the addition of an ingredient known as a dye and added for the purpose alone of producing a given color and the selection and addition of an

ingredient which performs the same coloring function, but at the same time adds other qualities to the compound. The words, "which shall be in imitation of," used in describing the contraband compound, imply a conscious imitation in the manufacture thereof. If one forming a compound of several ingredients knowingly select and use an ingredient which imparts to the compound the color of yellow butter, he having choice of ingredients, he will have made his compound in imitation of yellow butter just as well as if he selected a dye. There is, however, this difference, *v. z.*, proof of the presence of the dye, which can have no other function than that of producing color shows the conscious imitation quite clearly, while proof of the selection of the ingredients which produced the color of yellow butter, the person selecting having a choice of ingredients, is a fact from which the jury is authorized to infer a conscious imitation notwithstanding such ingredient so selected has other qualities or is in one of its forms or in one of its colors a necessary ingredient of oleomargarine. Whether or not the article in question is in imitation of yellow butter cannot be determined alone by its resemblance to yellow butter, but resemblance aided by evidence of the existence of a dye as one of its ingredients, or resemblance aided by evidence of the existence of available necessary ingredients which will not impart to the compound the color of yellow butter and of the existence of other available ingredients which will impart to the compound the color of yellow butter, may be considered by the jury as establishing or tending to establish conscious imitation by selection of ingredients. What is yellow butter and whether the article in question is in imitation of yellow butter are questions of fact. The trial in the circuit court progressed far from these simple and sufficient inquiries.

2. Did the accused sell, ship, etc.? Upon this branch of the inquiry different questions arise. The statute declares unlawful the mere act of selling, shipping, etc., the unlawful compound, and contains no words to indicate that such sale or shipment must have been knowingly or intentionally made. What would be the consequence of a sale, shipment, etc., by one who was entirely ignorant of the fact that the compound was not butter and had no intention to sell or ship oleomargarine or any other compound in imitation of butter we do not determine, because no such question is before the court. But upon the error assigned in refusing to direct a verdict of acquittal we are required to pass upon the question whether there was in the case at bar a *prima facie* case made against the accused, and we think there was, because there was evidence from which the jury was authorized to infer conscious imitation in the manufacture of the compound as herein indicated, and because there was evidence tending to show that the accused had knowledge that the compound in which they were dealing was not butter but oleomargarine, and that it resembled yellow butter. Upon this second branch of the inquiry, resemblance to yellow butter, together with knowledge that the compound is not butter, with proof of the fact of selling, shipping, etc., will constitute a *prima facie* case. But it will be necessary of course, to cover by the proof both branches of the inquiry. We, therefore, find no error in refusing to direct a verdict of acquittal. This applies to each of the defendants. Other questions are discussed in the briefs, but the foregoing renders their separate discussion here unnecessary.

The judgment of the circuit court is reversed, and the cause remanded for a new trial.

## BLEACHING OF FLOUR.

BY PROF. E. F. LADD, CHEMIST AND FOOD COMMISSIONER FOR NORTH DAKOTA.

I take it that among food commissioners, health officers, and sanitarians it may be considered almost as an axiomatic principle that the addition of any unnecessary chemical to a food or beverage shall not be deemed justifiable or lawful in any product until it has been clearly and satisfactorily proven that the chemical or drug as found in the food, should it there remain, is entirely harmless, that it does not injure or in any way lessen the food value, and that fraud in its use is not thereby abetted. Thus the burden of proof falls, as it should, upon those who would add foreign and unessential chemicals of whatsoever kind to any article of food or any beverage intended for general consumption by the people at large, and not upon those whose duty it is to see that the laws are enforced.

In other words, is it permissible to use, either in foods or beverages, products the effects of which upon the system are not well understood,—products which, if harmful, used in continuous but minute quantities can produce injury only after a long period of time? Are we justified in permitting the use of any unnecessary chemical product in food until it has been clearly demonstrated to the satisfaction of the best experts and to the satisfaction of the people at large that the use of such product is absolutely harmless? Has any manufacturer or producer of foods either a legal or a moral right to introduce, unknown to the consuming public, any active chemical into a food until it has been proven perfectly harmless, or until it has been satisfactorily demonstrated that it in no way injures its food value?

Are we not often enough afflicted with impaired digestion and other ailments, the cause for which is not well understood, without permitting manufacturers, or any one else for that matter, to add even the minutest trace of any contaminating product of uncertain physiological action? What good comes to the consumer from permitting the use of oxids of nitrogen or of nitrogen absorption, substitution, or addition products, or of nitrites in our food? \* \* \*

Winton says: "The chemical bleaching of flour is a matter of grave importance, because the treatment may affect the quality and wholesomeness of the product."

Dr. Wiley says: "At the present time flour is extensively bleached for the purpose of making an inferior article resemble a superior one."

A committee of the Paris Association of Bakers made a study of the subject of bleaching, and from the commercial tests usually employed by bakers concluded that, although the appearance of the flour was im-

proved by the bleaching, the flour itself and the bread made from it had suffered in flavor, and this fact alone was sufficient to condemn the process. They further concluded that it is inadvisable to introduce into a natural product par excellence, chemicals which, without adding to its real value, may on long continued use prove to be harmful.

The question of the bleaching of flour is, therefore, one of vital importance because it affects all people, since we are dealing with the most important food product used by man, and it is advisable that there be made as complete an investigation as possible of all features of the subject of bleaching.

The North Dakota Experimental Station has been engaged for some time in such an investigation, especially so with regard to the chemical features. Many arguments and statements have been put forth in defense of the process, none of which seems to the writer to possess sufficient merit to warrant the passing of our final decision upon these data and the argument presented for consideration. For example, the argument that since saliva contains sometimes nitrites (whether this be normal or abnormal has not been shown), therefore the further addition of nitrates to food can do no harm, is as groundless as would be the statement that, since saliva contains potassium sulphocyanid, this poisonous product should be added to our food. Its use as a medicine might be proper, but the presence of either in saliva is no real argument for their use as a food.

Hydrochloric acid is a normal constituent of gastric fluids, but we do not find physicians recommending its use as a beverage or food even in minute quantities.

Bleaching, as investigated by the author, has been produced either by the decomposition of  $\text{HNO}_3$  by an electric current, or by the discharge through the air of an electric current causing the union of the nitrogen and oxygen of the air. All agree that the same agent does the bleaching, no matter which method is employed, and the principal bleaching agent is the peroxid of nitrogen. \* \* \*

In conclusion we should say in the bleaching of flour:

First: That bleaching results from the action of the oxids of nitrogen upon the flour and to a considerable extent in its action upon the fat.

Second: That the absorbed nitrogen will be found (a) as addition or substitution products in the fat; (b) in combination with the gliadin of the gluten; (c) as nitrites resulting from combination with bases already present in the bread; (d) as absorbed gas; (e) in some forms of bread, especially those made with chemicals as baking-powder, the products will be oxidized to nitrates.

Third: That the gluten of the flour is always injured by bleaching, the extent of the injury depending upon the degree of bleaching.

Fourth: That bleaching is not an essential or desirable adjunct to the milling process.

Fifth: That all classes of flour are susceptible of being bleached and are bleached in many mills, and where formerly many grades of flour were produced some of these mills now produce but two grades and all are bleached.

Sixth: The process as now employed is, in its general use, a fraud pure and simple, and permits of the substitution of a cheaper product for a higher-priced one.

Seventh: That the producer of the wheat is not being benefited by the process, neither is the consumer.

Eighth: That it injures the flour whenever treated slightly, and the injury is proportionally greater as the product is overbleached.



Ninth: It forces the honest miller either to put in a bleacher or go out of business, for the natural characteristic of the flour is destroyed, and he cannot compete with his competitor who bleaches and substitutes and sells at a less price.

Tenth: It would seem to be a dangerous practice to treat a universal food product with a dangerous chemical, the physiological effects of which in the bread are as yet not well known.

Eleventh: Flour is very susceptible to contamination and readily absorbs odors and gases, and when stored in the vicinity of bleached flour it readily takes up the oxids of nitrogen.

Twelfth: Flour exposed for more than one year in open rooms does not absorb from the uncontaminated atmosphere either nitrites or the oxids of nitrogen in detectable quantities.

Thirteenth: The quality of the bread is always injured, and the characteristic and satisfying flavor of the bread is lessened, and in over-bleached products largely destroyed.

Fourteenth: Is one justified in adding a dangerous chemical product to a food until it has been clearly and satisfactorily demonstrated that the resulting product is entirely harmless, or that it does not in any way lessen the food value of the product?

## NITROUS ACID AS AN ANTISEPTIC.

BY J. H. SHEPARD, BROOKINGS, S. D.

During the past few years enormous quantities of nitrous acid have been employed in preparing the various grades of flours derived from wheat. Various comparisons between treated and untreated flours have been made and widely differing conclusions have been drawn. There is one aspect of the case, however, that has not been thoroughly investigated. Nitrous acid has not been used primarily as an antiseptic. It has been employed as a bleaching agent just the same as sulphur dioxide has been used in bleaching hops and dried fruits. Unfortunately for sulphur dioxide, it lent itself readily to the preservation of fresh meat products. Consequently its antiseptic properties were soon investigated and sulphur dioxide was placed in its proper class along with other powerful chemical preservatives. Thus far nitrous acid has escaped the fate of sulphur dioxide.

Nearly all investigations have been conducted along lines tending to show the effect of nitrous acid on gluten strength, loaf volume, etc., while the antiseptic properties of this chemical have been neglected. Professor Ladd in his paper, read before this association at Jamestown last year, stated it as his belief that the use of nitrous acid was harmful and deleterious to the flour. Professor Alway, Bulletin 102, Nebraska, concludes that the use of nitrous acid in flour is harmless, basing his belief upon the doctrine of the harmless nature of small quantities of the reagent employed.

But it seemed to the writer that the most satisfactory way of dealing with this problem would be to experiment directly with nitrous acid to determine its effect upon the digestive enzymes themselves. Accordingly during the past year I have planned, and with the aid of my assistant, Mr. Koch, carried out a series of investigations along the lines indicated. I believe the results we have obtained are of sufficient importance to warrant my offering them for the consideration of this association. \* \* \*

Nitrous acid is rivaled only by hydrofluoric acid as an antiseptic.

Any chemical in dilution of one part to one hundred thousand which will retard digestion nearly 25 per cent should not be permitted in any food product in any quantity whatever. And more especially is this true in the case of flour, which is eaten in one or more forms three times a day and 365 days in the year and all the years of a man's life.

In conclusion, it might be well enough to make some general strictures upon the bleaching process. Alway (loc. cit.) has found varying quantities of nitrite in bleaching process. Alway (loc. cit.) has million.

But in many instances the amount reached 10, 20 and in a few cases 30 parts per million. But 10 parts per million is the same as one part in 100,000. 20 parts per million is the same as one part in 50,000. An inspection of the tables will show that nitrous acid is capable of doing much mischief at those dilutions. It is true that Alway reported nitrite as sodium nitrite. But it is also true that he made no allowances for nitric acid or nitrates. In our work the latter acid was taken into consideration. Hence the figures are fairly comparable.

One thing further must be said in this connection, and that is, this nitrite is not eliminated in the baking. While it is apparently diminished there is no certainty that it is actually diminished. It may be so held that the usual analytical process fails to extract it from the bread. I have been able to recover from one-half to one-third of the nitrite in bread that was carried by the flour from which the bread was made. But even if one-half of the nitrite is lost in baking it does not help the matter much. What reasonable man can say that this constant and insistent dosing of the human system with such a powerful antiseptic as nitrous acid in any quantity whatever is a wholesome and hygienic practice? Is it not about time that the American people took steps so effective that bread, the staff of life, may come on the table pure and free from poisonous chemicals?

And then again, who said that the best bread should be white? What great and eminent physician or hygienist has said that the health-giving and muscle-building qualities of bread are indexed and augmented by an increasing scale of whiteness? Once again I ask, who has said it? You may depend upon it that even Echo will hang her head in shame and refuse to answer. Whiteness is indicative of starch. Starch is cheaper and more plentiful than potatoes. Protein is characterized by a yellowish tint. Bread, the universal food of this nation, is and should be valued for its protein content.

Or is this whiteness in bread simply another phase of the color craze which has swept over the country? If so, and if the "trade" demands white bread, why not be sensible and drop dangerous chemicals and bleach the dough instead by aeration? This is both practical and feasible. Every housewife may have a bread mixer if she will that will take natural flour and by forcing air through the dough produce the desired shade or degree of whiteness.

The addition of nitrous acid to flour is not only useless, it is dangerous. Old and young, strong and weak, well and sick, all depend upon bread and they should have it without any poisonous chemicals. It is not contended here that bleached flour carries nitrous acid in toxic doses, but it is contended that there is sufficient nitrite present to retard digestion, and to make it a constant menace to health. Such things beget indigestion and a host of minor ills that tend to sap the vital energies of the consumer and render him an easy prey to prevalent diseases and epidemics.

Nitrous acid is a vicious antiseptic and any course of reasoning that will permit its use will also permit the use of any or all the other antiseptics known.

## THE INSPECTION AND EXAMINATION OF OYSTERS.

BY W. D. BIGELOW, CHIEF DIVISION OF FOODS, DEPT. OF AGRICULTURE.

(Abstract.)

It is the practice in some localities to place oysters, immediately after their removal from the bed, in a stream of fresh water and to leave them there for a few hours. This operation is ordinarily called "drinking." The oysters open their shells and absorb a considerable amount of fresh water. This increases their size and plumpness and produces a fictitious appearance. Whether or not this practice is observed it is customary to wash the oysters in fresh water immediately after removal from the shells. It is stated by the shippers that such treatment is necessary because of the presence of a slimy substance which otherwise would rapidly produce decay. This washing, even after removal from the shell, produces a change of the same kind as that which occurs when unopened oysters are allowed to lie in fresh water. The extent of the change is, however, not usually so great.

After the oysters have been shucked and washed they are usually placed in tubs and a large piece of ice is placed in each tub, and when the shipment is made to a distant state it is the practice to again ice the tubs one or more times in transit. The water resulting from the melting of the ice subjects the oysters to additional soaking and probably still further increases their size and plumpness.

The water thus added at these three successive stages not only conceals inferiority in the oysters by making them appear larger, plumper and in every way superior to what they really are, but may some times introduce disease germs owing to the plumping of the unshucked oysters in polluted streams.

For the purpose of making comparative examinations in the laboratory of oysters that had not been subjected to any treatment whatever and those which had been washed or soaked by various methods, samples were taken from several oyster beds in the vicinity of New York. It was found that after washing for one-half hour drained oysters (shucked) had increased in weight over 27 per cent, and washing for an hour in running water produced an increase of 38.6 per cent and this weight continued to increase as the oysters were washed for longer periods of time.

Untreated oysters, that is, oysters which have been shucked directly into containers in all the cases examined contained less than 70 per cent of drained oysters and more than 30 per cent of liquor. At the same time such oysters after being separated by draining contained in all cases more than 18.5 per cent of solids. Oysters that had been plumped by washing or otherwise contained in all cases more than 75 per cent of drained oysters and less than 25 per cent of liquor. The drained oysters, however, contained less than 16 per cent of solids.

## UNIFORMITY IN STANDARDS AND LABELS.

The date of the going to press of these pages affords opportunity to insert the following:

At a meeting called together at the Park Hotel in the city of Madison, Wis., Sept. 29, 30, 1908, by Prof. E. F. Ladd, for the purpose of securing harmony of action as to rulings, standards and principles, and to promote the uniform enforcement of the food laws and co-operation among food officials of the states of the middle west, the following states were represented:

Commissioners Ladd, North Dakota; Barnard, Indiana; Wheaton, South Dakota; Emery, Wisconsin; Wright, Iowa; Chemists, Fischer, Wisconsin; Shepherd, South Dakota; Bryan and Nehls, Illinois; West, Minnesota; Robinson, Michigan; U. S. Department of Agriculture, McCabe, solicitor and member of board of food and drug inspection, representing the secretary of agriculture; and Mitchell, chief U. S. food and drug inspection laboratory, St. Paul, Minn.

*Resolved*, That the sale of sausage and sausage meat conforming to the following standard will not be contested:

Sausage, sausage meat is a comminuted meat from neat cattle or swine, or a mixture of such meats, either fresh, salted, pickled or smoked, with added salt and spices and with or without the addition of edible animal fats, blood and sugar, or subsequent smoking. It contains no larger amount of water than the meats from which it is prepared contain when in their fresh condition and if it bears a name descriptive of kind, composition or origin, it corresponds to such descriptive name. All animal tissues used as containers, such as casings, stomachs, etc., are clean and sound and impart to the contents no other substance than salt.

*Resolved*, That the sale of compounds composed of **sausage, cereals and added water** will not be contested if labeled as follows:

### Compound

—— per cent Sausage  
 —— per cent Cereals  
 —— per cent Added Water

and if the names of all the ingredients be in the same size type and the name of no one of them be given greater prominence than another.

WHEREAS, The addition of ice or water to shucked oysters has the effect of lowering and depreciating and injuriously affecting their strength, quality and purity. Therefore, be it

*Resolved*, That such addition constitutes an adulteration and the sale of oysters so adulterated will be contested.

*Resolved*, That the sale of ice cream conforming to the following standards will not be contested:

1. Ice cream is a frozen product made from cream and sugar, with or without a natural flavoring, and contains not less than fourteen (14) per cent of milk fat.

2. Fruit ice cream is a frozen product made from cream, sugar and sound, clean, mature fruits, and contains not less than twelve (12) per cent of milk fat.

3. Nut ice cream is a frozen product made from cream, sugar and sound, nonrancid nuts, and contains not less than (12) per cent of milk fat.

*Resolved*, That the sale of ice cream defined as above, when mixed with gelatin not to exceed three ounces of gelatin to ten gallons of ice cream, or with tragacanth or other vegetable gum, or with eggs, will not be contested or "egg ice cream" as the case may be and provided that the butter fat if the same is labeled and sold as "gelatin ice cream, or "gum ice cream," content shall not fall below the standards as stated above.

**September 30, Forenoon, Park Hotel.**

*Resolved*, That the sale of soft drinks and other food products containing soap bark or any of its preparations or cocaine will be contested.

*Resolved*, That the addition of caffeine to soft drinks is unnecessary, and reaching as it does largely the child population of our states, is fraught with extreme danger and constitutes a menace to health.

**September 30, Afternoon.**

*Resolved*, That it is the sense of this convention, that the enactment by the several states, of measures to secure full and complete sanitary control of food producing, manufacturing and distributing establishments and agencies is both desirable and necessary.

WHEREAS, It has come to our notice that in some cases rotten, mouldy, decomposed and unwholesome tomatoes are being used in the manufacture of tomato catsups;

*Resolved*, That the food officials of the country investigate the manufacture of this food in their respective states and adopt every possible measure to prevent the use of such material.

*Resolved*, That the practice of treating fish, ham, bacon, sausage and other meat products with so-called "liquid smoke" and similar preparations is fraudulent and a menace to health and the sale of products so treated will be contested.

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