

FRATERNAL SOCIETIES

I. O. O. F. Lynden Lodge, No. 71, meets every Saturday in Odd Fellows' Hall. C. E. Bay, N. G. H. S. Steinhauser, Secretary.

MASONIC. Lynden Lodge, No. 56, meets second and fourth Thursdays in Masonic Hall. Geo. A. Palmer, W. M. D. W. Bender, Sec'y.

KNIGHTS OF PYTHIAS. Lynden Lodge, No. 137, meets every Monday in K. of P. Hall. A. Dukker, C. C. H. S. Steinhauser, K. of P. S.

MODERN WOODMEN. Meet every 2nd and 4th Saturdays in Pixley's Hall, on Third St. Warren E. Hawley, Clerk.

B. of A. Y. Meet in Pixley's Hall every first and third Tuesday of each month. Chas. B. Sampley, Foreman. Harriet Hemmingway, Correspondent.

G. A. R. Lynch Post, No. 42, meets second and fourth Tuesdays in G. A. R. Hall. Joseph Pym, Commander. A. J. Busco, Adj.

FRATERNAL UNION. Lynden Lodge No. 460, meets every first Tuesday evening at K. of P. Hall. S. L. Palmer, F. M. Anna Anderson, Secretary.

ROYAL NEIGHBORS. Meet every second and fourth Saturdays at K. of P. Hall. Mrs. Sophia Young, Oracle.

W. R. C. Meets every first and third Friday at G. A. R. hall.

CHURCH DIRECTORY

METHODIST EPISCOPAL CHURCH. Hours of worship. Preaching 11 a. m. and 7:30 p. m. Sunday School 10 a. m. Epworth League 6:30 p. m. Prayer Meeting Wednesday 7:30 p. m. HERBERT JONES, Minister.

FIRST BAPTIST CHURCH. Corner Grover and 7th Sts., Rev. R. I. Case. Services every Sunday morning at 11. Sunday School at 10 in the forenoon. Prayer Meeting Wednesday evening.

PENTECOSTAL MISSION. Rev. C. E. Hedge. Services every Sunday morning at 11 and evening at 7:30. Prayer meeting Thursday evening, 7th and Liberty Sts.

FIRST REFORMED CHURCH. Cor. 6th and Grover Sts., Rev. J. G. Browner. Services every Sunday at 10:30 p. m. in the Holland language. Sunday School immediately after the afternoon services. Evening services at 7:30 in the English language. Senior Bible Classes in the Holland language on Monday evenings; in the English language on Tuesday evenings and Wednesday afternoons. Junior Bible Classes on Saturday at 1:30 and 2:30 p. m.

CATHOLIC CHURCH. Corner 3rd and Liberty Streets. Rev. J. B. Boulet. Services every third Sunday in the month at 10:30 a. m. Sunday School after regular services.

UNITARIAN CHURCH. Rev. Fred Alban Weil, minister. Services the first Sunday evening of the month, October to March inclusive, at 7:30 o'clock in K. of P. Hall. The public is cordially invited.

FIRST CHRISTIAN REFORMED CHURCH. Front Street. Services 9:30 a. m. and 2 p. m. Sunday School 3:30 p. m. Senior Catechism Classes, Tuesday at 2 and 8 p. m. Junior Classes, Saturday 10:30 p. m., and at Ebenezer School, Friday, 1:30 p. m. Rev. P. J. Hoekenga, Pastor.

International Bible Students' Ass'n. of Lynden, meets at Pixley's Hall every Sunday, 10 to 12 a. m. and 2 to 4 p. m. All interested are invited; seats free; no collections; Unsectarian.

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XIV.—Milk and Cream Trade Byproducts.

By LAURA ROSE, Demonstrator and Lecturer in Dairying at the Ontario Agricultural College, Guelph, Canada.

[Copyright, 1911, by A. C. McClurg & Co.] THERE is no more remunerative method of disposing of milk and cream from the farm than supplying the retail trade.

At the present time there are few businesses which if viewed in the proper light present such a serious aspect. Milk is almost the sole food of the infant man the first year or two of his life. He depends entirely on it during his frailest and most helpless period. A great number of babies have to depend solely on cows' milk for their nourishment. The purity of the milk has a marked influence on the health of the child. Milk laden with bacteria is always more or less unwholesome and may to infants be actually and actively poisonous, giving rise to vomiting, diarrhea and gastro-intestinal disturbances. I would not unduly alarm, but to read statistics of the mortality of infants and to see the great number of deaths said to be directly attributed to bad milk make one shudder at what is going on. It appears like murder without intent.

These conditions exist mostly in large cities where the milk is shipped from all quarters for great distances.

When a farmer sends off a can of milk he has no idea into what homes it finds its way. Some is likely to go to feed a tiny baby, some the very sick and some the enfeebled aged—all with weak digestion and low vitality, all depending on the milk to strengthen and build them up.

The man who supplies a city or town milk trade should think of these things: should think of the lives he really holds in his keeping. The cow has little to answer for personally in regard to bad milk.

There are but two things necessary to keep the milk pure and sweet. Keep the milk clean, then the bacterial content will be low. Quickly cool the milk and keep it cold, and the bacteria which are in it will cease to develop. Pasteurization is recommended, but where the other two requirements are rigidly enforced it is not necessary. Besides, pasteurized milk does not agree with every one.

In some provinces and states there is legislation regarding the percentage of fat and total solids in milk. Vastly more important is it that a certain standard of purity be enforced. There is no more vital food problem than that of the milk supply. Some go so far as to say that dairy farms should be under municipal management just the same as the water system. Every detail of the milk trade would then be under special inspection, which should result in supplying purer milk and lowering the death rate among infants.

Milk For Retail.

The ideal method for preparing milk for retail is, first, to have the milk of best quality. Take it to the milk room separate from the stable and immediately cool it to 45 degrees. Then bottle in sterilized bottles and seal the tops with paraffined paper caps. It should be shipped as soon as possible, either packed in ice or in refrigerator cars. Milk should reach the consumer not later than twenty-four hours after it is drawn.

When we see oysters, ice cream, etc., carried in paper pails the paper milk bottle may come into use in the near future. It certainly would do away with the dread of badly washed glass bottles.

As bacteria lurk in the crevices of imperfectly cleaned vessels, all pails and cans in which milk is placed should be thoroughly cleaned and scalded. It is most important that there be no hidden nooks and corners in the tinware. Blind seams and crevices are breeding places for the worst forms of germ life. A liberal use of solder renders the inside of pails, cans, dippers and strainers perfectly smooth and cleanable.

Not until we get the consumers roused to the importance of clean milk will conditions greatly improve. To most of them milk is milk, and that is the beginning and end of it. They should be concerned about its source.

Are the cows healthy? Is the milking done in a cleanly manner? Is there any contagious disease among the attendants? These are questions about which the housewife should concern herself. When milk is guaranteed pure it usually commands a higher price. Extra precaution entails extra expense.

The milk often becomes bad after it is received from the milkman because it is not properly cared for in the home. Too frequently the milk is put into a jug or pail which has only been rinsed since being emptied of milk. All milk vessels must be scalded. Another bad practice is allowing the milk to stand on the kitchen table or in some other

warm place. The milk should be covered and kept in a cool, clean place. It is a good plan to place a square of clean wet cotton over the milk pail. In warm weather, when souring is feared, it is a wise precaution to heat it to 185 degrees and quickly cool it. Danger from disease germs also is averted by doing this.

The souring of milk during a thunderstorm is due not to the thunder, but to the warm, sultry weather preceding the storm, making conditions favorable to the rapid growth of bacteria.

Do not place a bowl or jug on the door step for the milkman to fill. The dust falling into it may be sufficient to spoil the milk.

The Cream Trade.

Cream for retail should receive the same care as milk. Cream is generally sold by the quart or gallon and should be of a stipulated per cent of fat. Commercial or single cream usually contains from 20 to 25 per cent fat. Double cream 40 per cent. It takes three and one-third pints of 20 per cent cream to make a pound of butter. By comparing the price obtained for cream with that for butter, one can ascertain which is the better way of disposing of the cream. Practically speaking, 100 pounds of 4 per cent milk will make 20 pounds (two gallons) of 20 per cent cream.

It is a crime to add to the milk or cream any preservative. There are few, if any, that are not injurious, and many are really poisonous. Agents will sell a powder or solution which, if used to rinse the cans, will prevent the milk from souring. Surely such an argument should arouse suspicion. These so called remedies have been known to contain enough formaldehyde (a poison) to be dangerously harmful.

The farmer may add a little preservative saying, "This pinch cannot do any harm." The wholesaler man, not knowing what has already been done, adds his small portion, and the retail dealer, who runs the greatest risk of the milk souring, puts in an extra dose. No one is able to sum up the sad results.

When ordinary milk does not sour under usual conditions within a reasonable time, there is something wrong. More attention is each year being given to the retail trade. Legislative sanitary inspection of the milk, cows and stables and the establishing of pure milk depots to supply milk for infants especially are lessening the evils.

Milk produced under the best of conditions, cooled immediately and bottled has been kept sweet for eighteen days in the heat of summer. The milk was not pasteurized.

Cleanliness and prompt cooling were the only preservatives. We can recommend no others.

Milk Definitions.

Standard milk is milk which conforms to certain requirements which usually specify the minimum per cent of fat, and solids not fat, and sometimes the maximum number of bacteria per cubic centimeter allowable in milk offered for sale. The amounts required or permitted differ in different countries.

Sanitary milk, guaranteed milk, are terms applied to milk produced under conditions necessary to secure a pure, wholesome product.

Certified milk is milk produced under ideal conditions—healthy cows, especially adapted sanitary stables, healthy clean milkers. The milk is bottled, sealed and shipped in refrigerator cars and certified to by a commission.

Modified milk, or humanized milk, is milk containing definite proportions of fat, sugar, casein, etc., put up usually



TYPES OF MILKING STOOLS.

according to the prescription of a physician, who indicates how much of these different constituents is required. Clarified milk is milk which has been run through a separator to remove some of the impurities. The skim milk and cream are afterward mixed.

Pasteurized milk or cream is milk, or cream which has been heated below the boiling point, but sufficiently to kill most of the active organisms present and immediately cooled to 50 degrees or below. Pasteurizing temperature range from 140 to 185 degrees.

Sterilized milk is milk that has been heated to the temperature of boiling water (212 degrees) or higher for a length of time sufficient to kill all organisms present. Condensed or evaporated milk is milk from which a considerable portion of water has been evaporated. The sweetened brands contain a high percentage of cane sugar.

Peptonized milk is milk to which some pepsin has been added in order to make the milk more easily digested. Electrified milk is treated by a current of electricity for the purpose of destroying bacteria.

Malted milk is milk that has been pasteurized to destroy the bacteria, then partly condensed, and a small quantity of malt added.

Milk powder is obtained by evaporating the moisture from whole milk, partly skimmed milk or skim milk. The powder is used by confectioners, certain manufacturers, surveying parties and in such countries as the basin of the Yukon.

Koumiss is the product made by the alcoholic fermentation of milk caused by adding yeast and sugar to it

NOTICE of SALE of STATE LANDS.

Application No. 6244-7119. Notice is Hereby Given, That on Saturday, the 7th day of December, 1912, between the hours of four o'clock in the forenoon and ten o'clock in the afternoon, commencing at ten o'clock in the forenoon of said day, in front of the main entrance door to the County Court House in the city of Bellingham, county of Whatcom, State of Washington, either by the County Auditor of said county or by a member of the Board of State Land Commissioners of the State of Washington, the following described state lands, together with the improvements situated thereon, will be sold at public auction to the highest bidder therefor, to-wit:

All tide lands of the second class as defined by section 1 of chapter 26 of the Session Laws of 1911, owned by the State of Washington, situate in front of, adjacent to or abutting upon lot 5, section 4, township 37 north, range 1 east W. M., with a frontage of 23.74 lineal chains, more or less, measured along the meander line, according to a certified copy of the government field notes of the survey thereon on file in the office of the Commissioner of Public Lands at Olympia, Washington, appraised at \$16.00 per lineal chain or \$379.84.

All tide lands of the second class as defined by section 1 of chapter 26 of the Session Laws of 1911, owned by the State of Washington, situate in front of, adjacent to or abutting upon lot 1, section 9, township 40 north, range 3 west W. M., with a frontage of 20.04 lineal chains, more or less, measured along the meander line, according to a certified copy of the government field notes of the survey thereof on file in the office of the Commissioner of Public Lands at Olympia, Washington, appraised at \$6.50 per lineal chain, or \$130.26.

Said land will be sold subject to the terms, conditions and reservations of Chapter 109 of the Session Laws of 1911, relating to easements for rights-of-way and the carrying of timber, stone, mineral and other products over the same.

Said lands will be sold for not less than the appraised value above stated and upon the terms and conditions following:

Terms and Conditions of Sale.—Not less than one-tenth of the purchase price must be paid at the time of sale to the officer making the sale. The purchaser, if he be not the owner of the improvements, must forthwith pay to the officer making the sale the full amount of the appraised value of the improvements, as above stated. One-tenth of the purchase price must be paid annually thereafter on the first day of March of each year, with interest on all deferred payments at the rate of six per centum per annum, together with accrued interest on any balance, at the same rate: PROVIDED, That any purchaser may make full payment of principal, interest and statutory fees at any time and obtain deed or state patent. The purchaser of land containing timber or other valuable materials is prohibited by law from cutting or removing any such timber or materials without first obtaining consent of the Commissioner of Public Lands or the board, until the full amount of the purchase price has been paid and deed issued.

All sales of state lands are made subject to the reservations of oils, gases, coal, ores, minerals and fossils of every name, kind and description, and to the additional terms

and conditions prescribed in the act of the legislature approved March 20, 1907, being section 3 of chapter 256 of the Laws of 1907.

The above described lands are offered for sale in pursuance of an order of the Board of State Land Commissioners, and an order of sale duly issued and certified by the Commissioner of Public Lands of the State of Washington now on file in the office of the county auditor of said county.

FRANK C. MORSE, Asst. Commissioner of Public Lands. (SEAL) 10-31-61

SUMMONS IN THE SUPERIOR COURT OF THE STATE OF WASHINGTON, IN AND FOR THE COUNTY OF WHATCOM.

Mary Holloway, Plaintiff, vs. William Holloway, Defendant. No. 10733.

The State of Washington to the said William Holloway, Defendant: You are hereby summoned and required to appear within sixty days after the first publication of this summons, to-wit, within sixty days after the 28th day of November, 1912, and defend the above entitled action in the above entitled court, and answer the complaint of the plaintiff, and serve a copy of your answer, or other pleading, upon the undersigned attorney for plaintiff at his offices below stated; and in case of your failure so to do judgment will be rendered against you according to the demands of the complaint which has been filed with the clerk of said court.

The object of this action is to dissolve the bonds of matrimony heretofore existing between plaintiff and defendant, on the grounds of desertion and abandonment of plaintiff by defendant for more than one year last past, and the failure, refusal and neglect of defendant to suitably provide for his family, or to provide at all, and for general relief.

W. A. MARTIN, Attorney for Plaintiff. Office and post-office address 405-406 Sunset Building, Bellingham, Washington. First Publication Nov. 28, 1912. Last Publication Jan. 2, 1913.

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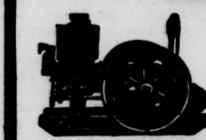
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