

ute to the late Governor Withycombe for what he had done in making this an agricultural state. Mr. Mickle made a plea for a state wide dairy association. He warned the dairymen of this county to keep their organization in their own hands. He said that the big packing companies controlled 75 per cent of the cheese factories of Wisconsin, and as the condensed milk factories in the northwest were in the hands of two companies, he predicted that with their large amount of wealth they might resort to making cheese as soon as there was a slump in the market for condensed milk. He thought the business men of Coos county had sold their birthright for a mess of pottage when they gave their assistance to a condenser being started in that county, for as soon as they obtained control they would control the price of milk. Mr. Mickle also spoke of what Tillamook dairymen had done at the International Dairies show.

**Raw Material.**  
H. W. Thomas, of the Red Clover Creamery, discussed raw material in the following manner:  
When nature intended milk as a food she also provided the manner of supplying it in such a way that it should not be exposed: the teat of the mother entered the mouth of the offspring and the food passed from one to the other without suffering external contamination, except what might be caused by extraneous matter attached to the outside of the teat. Therefore when a scientist wants to secure milk in its natural state he inserts a sterilized glass tube into the teat and draws milk into a sterilized bottle. What I wish to convey to the dairymen in regards to clean milk for the manufacture of cheese or butter is this: Milk taken from the cow in this manner by the scientist will usually keep fresh and sweet at room temperature for from six to twelve months when protected from later examination.  
From this fact the dairymen can lay down all the necessary rules for the handling of milk, and these rules can all be summed up in one: Do not expose milk more than necessary. Some exposure will take place; the dairymen only cannot do as the scientist does, but his object is not to produce sterile milk, but milk that will retain its original properties for a limited period of time. In order to do this let him so far as he can imitate the method of the scientist, and the closer he attains this the better will be his product.  
The raw material in cheese making is milk, and good clean milk is the foundation of quality. Quality is what we are all working for. What is that is needed on the dairy farm today more than a good cooling tank for the milk in as soon as the evening milking is over? Milk proper cooled is the only way to control the growth of bacteria that can milk to sour and offensive flavors, develop.

Enumerating the following rules on obtaining the raw material, I want you to understand that I am out to help you in that I can get the best results.  
First, the cow, naturally a cleanly animal, voids pollution if she can. If you tie her up to a lane that is knee deep with mud and filth—well, "nuff" as you had better haul some gravel. We will take it for granted that the farmer has cleaned his barn good and has delayed feeding up after milking so as not to have dirtying all over the barn while milking, the cows, but you have allowed to come in the barn one of the best sources of bad flavors, and this from the mud of the lane we are going to gravel last summer. With all over the cow's flanks and dirty over the milk bucket is bad for the milk.  
Cleanliness milking is very often neglected. It has an active capacity for absorbing all manner of odors. If milk by hand it should be done dry hand. Some farmers have no idea of washing the hands as a necessary preparation. They will milk with their dirty hands upon their hands, which coming mingled with the milk tries down between the fingers into the milk pail. Do you realize that a man hand coming from the field, would be surprised at the number of bacteria on his hands. Professor E. B. Pitt, of the O. A. C. told us at the Butte and Cheese-makers Convention December that as high as 45,000,000 bacteria had been found in sterile water after the hands had been washed. The straining of the milk should not be done inside the barn, but in the open where it can be protected against extreme contamination.  
The utensils present important consideration in the production of clean milk. They will often be the one defect in a good dairy. Milk can and strainer are responsible for bad flavors and sour milk in a great many cases. The strainer is a utensil that should be given every consideration. No reliance can be placed on the strainer's ability to make up for the previous careless handling of milk. Dirt once in the milk done in a strainer, the strainer helps increase the bacteria if not in good clean condition. The way to clean it is to boil it for fifteen or twenty minutes and then dry it in the sun. The cleaning of all the utensils should be done with care. A point made to do it as soon as you have returned from the factory. This prompt washing is very important and the practice for delaying for several hours must be severely condemned. The milk thickens on the sides and bottom of the cans, and when the cleaning is performed it is a difficult and rarely accomplished thoroughly.  
Now if you please just a word about the cheese maker. The coming of the factory operators in the future must have a wide knowledge of dairy subjects and be a specialist in the manufacturing of cheese. The future cheese maker will be much more than a kind of a human being in a cheese maker of today, but in the natural course of evolution he

will undergo some changes. He should be a model of cleanliness in keeping his factory in the best possible condition. The cheese maker who runs a factory in a haphazard way, will not be profitable to his patrons nor will he be setting a very good example to them, in the manner on the care and handling of milk. The patrons should bring their problems to him, so that he can help them get a better grade of milk.  
The cheese maker who is true to his profession will always be loyal and render good efficient service. The man who is hired in a factory should feel the responsibility. Men are not hired merely as cheese makers, but as a man who shall render you services along such lines as will yield the greatest returns to your company, not only in manufacturing a high quality of cheese, but in the proper care of the milk supply.  
The Cheese Makers Ass'n. was organized for the purpose of broadening the usefulness of the maker to these qualities of cleanliness and the interests of the dairymen at heart, should be the ones to get the jobs.

E. A. Fogg, gave a short talk on "Factory Sanitation," and appealed to the cheese makers not only to keep their factories in a clean, sanitary condition, but to have a neat, clean appearance themselves. He said that with the auto travel into Tillamook county a large number of persons visited the cheese factories, who were surprised to find how neat and clean some factories were, for they seemed to have had an impression that cheese factories were dirty looking places, whereas it is the reverse in Tillamook county. The visitors first quizzed the cheese maker, the walls and the general appearance of the factory and when they are clean looking the visitors go away fully convinced that the cheese in Tillamook county is manufactured under splendid sanitary conditions.

**NOTICE OF ELECTION**

BE IT RESOLVED by the Common Council of Tillamook City, Oregon, that a special election of the voters of said Tillamook City be, and it is hereby called to be held at the City Hall in Tillamook City, Oregon, on Monday the 16 day of February, 1920, for the purpose of voting upon the adoption or rejection of a measure proposed by the Common Council of Tillamook City, Oregon, hereinafter set forth, and that at said election there be submitted to the qualified electors of said Tillamook City, for their adoption or rejection, the said measure, which measure is in words and figures as follows, to-wit:

SECTION 1: That the Charter of Tillamook City, Oregon, as enacted by the Legislative Assembly of the State of Oregon, in the year 1889, and as thereafter amended, be and the same is hereby amended by adding thereto the following Article.

ARTICLE XV.  
Section 1: The Common Council of Tillamook City, Oregon is hereby authorized to issue and sell the general bonds of Tillamook City to the amount of not more than \$15,000.00. The proceeds from the sale of such bonds shall be applied by the Common Council of Tillamook City, Oregon, so far as shall be required for the purpose of the purchase of a fire engine and fire fighting equipment for the use of Tillamook City, the indebtedness to be evidenced by said bonds being hereby authorized to be incurred in addition to any indebtedness heretofore authorized to be incurred by the Charter of Tillamook City. The purchaser of the bonds hereby shall not be required to see to the application of the proceeds thereof.

Section 2: The bonds hereby authorized shall be issued in accordance with the Charter provisions of Tillamook City, except that it is hereby provided that the ordinance or other act of the Council providing for the issuing of said bonds shall not be subject to the referendum provisions of the Charter of Tillamook City, and such referendum provisions are hereby declared not to be applicable to the bonds authorized to be issued under the provisions of this Article. The rate of interest on said bonds shall not exceed six percent per annum, and they shall not be sold for less than the par value thereof; with all accrued interest to date of payment therefor by the purchasers. That each legal voter who votes for the adoption or rejection of said measure shall vote "Yes" or "No" in answer to the affirmative or negative of the question propounded upon the ballot for the adoption or rejection of such measure.

That the ballot title to be used at said election for voting upon said measure shall read as follows:

101 No.  
100 Yes.  
**PROPOSED BY THE COMMON COUNCIL:**  
Shall a measure entitled "A Measure to Amend the Charter of Tillamook City, Oregon, by adding thereto an article to be designated as Article XV, authorizing a bond issue for the purchase of fire engine and fire fighting equipment" as proposed by the Common Council of Tillamook City, Oregon, referred to the people of said city for adoption or rejection by resolution adopted by said Council on the 29 day of January, 1920, be adopted. This is a measure to amend the Charter of Tillamook City by adding thereto Article XV authorizing the issuance and sale of general bonds of Tillamook City to the amount of \$15,000.00, for raising funds for the purchase of a fire engine and fire equipment.  
Mark X between the number and answer voted for.

**BOTTS & WINSLOW,**  
Attorneys-at-Law,  
TILLAMOOK, OREGON.  
TILLAMOOK BLOCK,  
Both phones.

**Nehalem Notes.**

Bud York and wife have returned from McMinnville.  
Mrs. Gage, primary teacher of the Nehalem public school, has returned to her desk after a hard sick spell. All are glad to see her about the building again.  
Alma Ripley, of McMinnville, is visiting her sister of this city, Mrs. Bud York.

A surprise party was given in honor of Mrs. Lena Lommen last Sunday. A good crowd attended. All reported a good time.

Mrs. Victor Brandt, who was called here by the serious illness of her father, Herman Tohl, returned to her home in Portland last Saturday.

A goodly number of Nehalem residents attended the school entertainment, "Windmills of Holland" at Wheeler last Saturday night.

Mr. and Mrs. William Christensen have taken up their abode in the thriving city of Wheeler across the bay. Nehalem will certainly miss this jolly young couple, for to know them is to like them. They are an asset to any community and Wheeler may well feel proud of her hustling and energetic bank cashiering his estimable wife.

Cleve Allen and family have been on the sick list this week.

Mrs. Martha Howe, and Mrs. J. D. Eponastie, of Port Orchard, Wash., have been here the past week, being called by the serious illness of their father, Herman Tohl. Mrs. Howe was accompanied by her little son Gordon.

Fred Lange, one of the old settlers of Nehalem, died Sunday afternoon of pneumonia, after an illness of only two days. Some people of the city did not know that he was sick. Mr. Lange was born in Herford, Westfalen, Germany, May 15, 1855, and with his wife and two daughters came to America in 1884, taking up a homestead east of Nehalem soon after arriving. He is survived by his widow, Marie Lange, and two daughters, Mrs. Johanna York and Mrs. Pleasant Allen, besides three grand-children. Their all reside in or near Nehalem. Funeral services were held Wednesday from the Lutheran church conducted by Rev. Theodore Schoenburr, of Portland, and interment was made in the Nehalem cemetery.

F. M. Walling, of the firm of Hiner & Co., foundrymen of Tillamook is busy here this week repairing a boiler in the logging camp of Frank Gustus on the north fork.

**Are You Insured?**

**IF NOT THE WOODMEN OF THE WORLD. THE Giant of the West With a Reserve Fund of \$8,356,000 offers secure Benefits as follows:**

Ages	Inclusive	\$500	\$1000	\$2000	\$3000
18 to 22	35	70	135	205	265
23 to 25	40	75	145	220	285
26 to 29	45	80	150	230	295
30 to 31	45	85	170	255	
32 to 33	45	90	180	270	
34 to 35	50	95	190	285	
36 to 50	1.00	2.05	3.05		
37 to 55	1.05	2.15	3.20		
38 to 40	60	1.15	2.25	3.40	
41 to 60	1.20	2.35	3.55		
42 to 65	1.25	2.50	3.70		
43 to 70	1.30	2.60	3.90		
44 to 75	1.35	2.70	4.05		
45 to 80	1.40	2.80	4.20		
46 to 85	1.45	2.95	4.40		
47 to 90	1.50	3.05	4.55		
48 to 95	1.60	3.15	4.75		
49 to 100	1.65	3.25	4.90		

Multiply above rates by 12 and you have the cost for one year.  
To the foregoing add 50 cents per month for camp dues which gives you all the privileges and benefits of a fraternal organization.

These rates are far lower than for "Old Line" insurance. This order has been in existence nearly 30 years and every claim is promptly paid.

Join now and help boost the District Convention which will be held in Tillamook the third week of May.

**Admission Fee, \$5.00**  
For a Short Time Only.

For further information and application card apply to either F. H. Matthews, C. C. or Thomas Coates, Clerk Alder Camp No. 219 Tillamook Oregon.  
The camp meets every Thursday night in W. O. W. Hall, National Building. Visiting neighbors always welcome.

**W. C. DUETER,**  
DENTIST,  
TILLAMOOK BUILDING  
(Over Halton's),  
Tillamook—Oregon.

**SPECIAL ATTRACTION**  
AT THE  
**GEM THEATRE**  
Thursday Night, February 12.  
**MARY PICKFORD**  
IN  
**"Dady Long Legs."**  
A 7 REEL PRODUCTION, FULL OF THE MOST WHOLESOME COMEDY— AND FUN AGLORE.

The secret of the story is, Judy Abbott (Mary Pickford) gets too much Apple Jack. The fun which is thus created moves to a terrific pace when Judy and her freckled face pal gets Stewed, yet they go on a Strike and absolutely refuse to eat stewed prunes. You should do the same as they did if you feed prunes three times a day, as they were. You see, it is like this, Judy and her pale are inmates of an orphanage. You'll have to come and see just what happens. Don't miss it, Thursday Night Only. ADULTS, 25c. CHILDREN, 15c.

**Tillamook Headlight's Trade Mart.**  
One cent a word per issue.  
Singer Agency—H. F. Cook, Prop. \*  
Pigs for sale, W. Roenicke, Woods.  
Eggs and Baby Chicks for sale. John Hoffman, Tillamook, Ore. Feb. 25  
For Rent—Dairy ranch near Montecano, Wash. Address owner, C. W. Miller, 222 E. First Street, Aberdeen, Wash. F-5.  
For Sale, 53 acres of Wilson river dairy land. See Frank Freeman, north of Tillamook. F-29.  
Will store or pay small rent for piano—Phone 4 R.

Dr. Wise will be at his Tillamook office across the street south of the court house every Friday and Saturday, other times by appointment. M-25.

For Sale—Six room house and bath room with bath, toilet and lavatory. Quarter block of land, cement walk and paved streets both sides, cement drive to garage. Garage 12 by 29 ft., large enough for large car or truck and room enough for work bench besides. Four large shade trees. A property on the main street of the city and a property that will increase in value. Situated on corner of 2nd Ave. East and Eighth street. One third purchase price down, payments on balance. See the owner, Smithy at the Variety Store.

For Sale—First class 80 acre dairy ranch, sixty acres best river bottom, twenty acres good up-land. Two miles south of Tillamook on paved highway. Well improved farm, good buildings, high-producing cows. All low lands well tilled. City water piped in house, also barns, garden and fields. If you want a farm that pays, see us at once. Will consider a small price intrade as part payment.—John Ebinger.

For Sale, good 5 room house with 1 or 2 lots on paved street.  
Another good bargain, 160 acres on Sand Lake, for \$25.00 per acre, 120 acres of good timber.

For Sale, 5 room house with 8 lots, with barn, hen house and lots of fruit, on paved road.

Farm for sale, with cows, good buildings and lots of fruit.  
Inquire at this office.

For Sale—Hay in whole or mixed car lots. Grain hay, clover hay, Cheat, Straw and Alfalfa. Carlton Elevator & Mill Corporation, Carlton, Oregon 4

For Sale or Trade—2 stores with 5 flats above, steam heated, 15 min. ride from heart of the city of Portland.—Enquire E. E. Kock, druggist, Tillamook.

**Miscellaneous Advertisements.**  
Dr. Wise—Dentist.  
Lost, a Belt from Overcoat, Greenish gray. Finder please leave same at the Headlight office, Reward.

Dr. W. E. Lebow will be at Dr. Wise's Tillamook office Mondays, Tuesdays and Wednesdays, Thursdays at Nehalem; Fridays and Saturdays at Wheeler. April 29

Wanted. The complete rear half of Ford running gear, including spring and wheels. W. B. Flasz, Bay City, Ore. F-12.

Miss M. Patterson is representing the Nu Bone Corset Co. formerly represented by Mrs. Edwall. Leave your orders at her Millinery store. 4

Dr. Wise will be at his Bay City office on Wednesdays. F-25.  
A better piano for the same money. Cook's Music House, Tillamook.  
Wanted to buy office desk and small steel safe.—See Smithy at Variety Store.

All the latest rolls for your Player Piano at the Palm Confectionery.  
Dr. Allen and Sharp, Dentists, National Building.  
Dr. J. B. Grider, dentist, I. O. O. F. Bldg., Tillamook, Oregon.  
Counter Sales Books—Order your Sales Books from W. F. Baker, agent Pacific Sales Book Co. Call 68 Headlight.  
Dr. W. E. Lebow—Dentist with Dr. Wise.

**DR. J. E. SHEARER**  
DR. A. C. CRANK.  
Drs. Shearer & Crank Medical & Surgery. National Building. Tillamook - - - Oregon.

**HENRY C. VIERECK, M. D. SPECIALIST.**  
Disease of the EYE, EAR, NOSE AND THROAT Only  
310 Selling Building, Portland, Ore.

**ECONOMY CLEANERS AND DYERS**  
2nd, Between 3rd and 4th. MODERN EQUIPMENT. PERMANENTLY LOCATED.

**R. T. BOALS, M.D.**  
PHYSICIAN AND SURGEON.  
Surgeon S.P. Co. (I. O. O. F. Bldg.) Tillamook - - - Oregon.

**ROBERT H. McGRATH**  
COUNSELLOR-AT-LAW, TILLAMOOK, OREGON.

**DR. O. L. HOHLFELD.**  
VETERINARIAN.  
Bell Phone—2F2 Mutual Phone Tillamook - - - Oregon.

**DAVID ROBINSON, M.D.**  
PHYSICIAN AND SURGEON  
NATIONAL BUILDING, TILLAMOOK - - OREGON.

**THE FAMILY'S REASON.**  
Every member of the family likes the Columbia Six.

The younger people like it because of its spirited power and clean-cut design. The older members of the family like its rich appearance, its substantiality—the ease with which it is maneuvered—the confident comfort they enjoy while they are in the car. They ALL like it because it is the same GOOD car each time they take it out—a joy to drive; a beautiful car to own.

**Chas. A. Brown,**  
PHONE 67 W.  
**Columbia Six**

**ORANGES**  
That are  
**GOOD AND JUICY**  
**60c. PER DOZ.**  
**NICE BIG ONES.**  
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