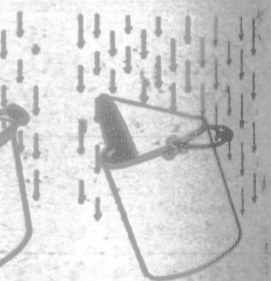


ment.

are also known as micro-organisms, they are too small to be seen with the eye, yet there are thousands of them in a very small drop of clean water and in a small drop of dirty water.

Bacteria cause milk to become sour. They are not considered a very serious danger to the health of the consumer, but they do cause a very rough dairyman endeavor to get the milk as low as possible. Some bacteria cause the milk to become rancid and rosy. In addition, some bacteria cause typhoid fever, cholera and typhoid fever outbreaks. An epidemic of these diseases has been traced to the milk of a certain farm.

It is not peculiar that so many people are around bacteria in milk. It should be understood that the excellent medium for the growth of all these bacteria, found in milk, is very rich in protein and fat. Bacteria flourish in them, and the fats in milk are home for various kinds of bacteria.



Types of Milk Pails.

The necessity for clean milk is so great that it should be understood as favorable conditions, these facts should be kept in mind. Clean milk there is less likely to contract disease. It keeps sweet longer. It makes a higher grade of butter. It brings a better price. It makes satisfied customers.

Now consider how impurities get into the milk and how to prevent them. The amount of milk depends on the condition of the cow and her health, condition of the udder, external condition, whether the cow is clean and on such other various things as milking, washing, clipping, and the disposal of manure, feed, and water.

Disinfection of the stable, its ventilation, and other items are also important.

Impurities get in milk through the udder, such as milk pails, separator, and other machines.

So, if one is not careful, impurities of dirt will get into the milk very materially to the detriment of the consumer.

Any illustration shows that the open-topped milk pail is a greater ease than into the closed over the top.

It can also be prevented from getting into the milk by properly cleaning the udder before milking—that is, by washing and finally drying the udder with a clean cloth.

Some milkers wet their hands when beginning. This is not good and should not be done. It is necessary to moisten one's hands when milking, it should be done with clean water.

In large dairies, men are employed to milk, neither are they allowed to chew tobacco while milking.

As a preventive measure, a little experiment, take two milk pails, one clean and one that has been cleaned, and fill them with milk from a cow that has not been cleaned. Set them together and notice how much more quickly they become sour. There are many experiments that can be made at home or at school.

Put them out to the end of the road and you will find that the milk in the clean pail is perfectly clean.

## Pay a Trifle More to Make a Big Yearly Saving of Coal

THE reliable furnace man never recommends a cheap furnace.

His price for heating your home is usually a little higher than the other man's.

That is because he is selling something more than a furnace. He intends to deliver "comfort"—economical comfort—for your home.

The Hecla furnace man can go one step further. He can install a Hecla which saves fully one-seventh of the coal used by other good furnaces.

It is not hard to estimate just what that yearly saving amounts to. Figure it out.

Surely it interests you enough to make you investigate the Hecla. It is no trouble to enquire. Thousands of homes all over Canada are heated by Hecla furnaces.

Ask any of them what they save with this furnace.

They will tell you that the special Hecla firepot—the Steel-ribbed Firepot—makes their coal bills light. The triple-heating surface of that firepot sends warmth into the house, instead of out of the chimney. To-day it is a real money-saver for every Hecla owner.

Our printed booklets explain this exclusive Hecla feature. They tell everything about warm air heating that you will want to know before you invest in a heating system. They explain why the Hecla is a "clean" furnace—why gas and dust cannot escape through the register. They show how healthful moisture is sent equally to every room.

Write for this booklet. At the same time send a rough floor plan of your home, so that our heating experts may advise you about making it comfortably warm. Their advice and estimates are sent entirely free for the asking.

Clare Bros. & Company, Limited  
Preston, Ont.

## HECLA MELLOW AIR FURNACE



FOR COAL OR WOOD

**MORE \$\$\$\$\$\$ FOR Your RAW FURS IN NEW YORK**

*My Prices Are Guaranteed*

Beware of High Price lists sent out to deceive you and get your furs. The higher they quote the less you get.

The secret of a square deal is honest grading at market prices. I guarantee my price until next list is issued and will not quote more than I can pay on an honest assortment.

Enjoy that peace of mind that comes to a shipper when he knows he is shipping to an honest firm.

You will make no mistake shipping to me and to find you make my acquaintance.

**HONEST GRADING HONEST PRICES**

No commission deducted. (Buy furs in parcels post charges through express guaranteed.)

Write at once for Price List while you have me in mind.

**BENJAMIN DORMAN**  
147 W. 24th ST. NEW YORK

**FREE SAMPLE** of Hallam's Paste Animal Bait

Enough for 2 or 3 sets—attracts all flesh eating animals—is put up in tubes (like tooth paste)—not affected by rain or snow. Economical to use, handy to carry.

Also Hallam's Trappers and Sportsmen's Supply Catalog—48 pages, English and French—showing Animal Traps, Guns, Ammunition, Fish Nets, etc. All at moderate prices.

Sample bait and catalog Free for the asking—send to-day.

Address in full as below

**There is BIG MONEY IN TRAPPING**

when you ship your **RAW FURS**

**John Hallam Limited** 506 HALLAM BUILDING, TORONTO.

**Trappers! Send All Your Furs to JUDD and get a Guaranteed Check**

No other fur house backs up its promises with guaranteed checks. Ship to Judd this year and get the Extra Money we pay for skins of all kinds. No commission charges or grading fees come out of your check.

Over \$1,000,000 Capital proves our responsibility. To get more money and guaranteed checks, ship to Judd—the Best Fur House in the Great Central Market.

**WRITE TODAY** for Extra Profit Price List and exclusive information on the fur market. All furs graded under the Judd System of Grading.

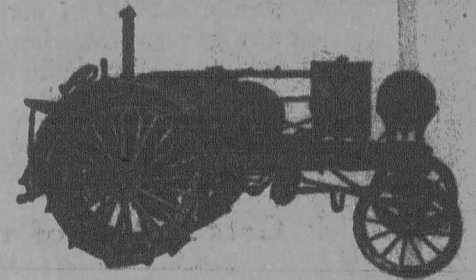
**JUDD FUR COMPANY**  
1150 N. Wabash St., Chicago, Ill.

**Guarantee**

**JUDD FUR CO.** CHICAGO, ILL.

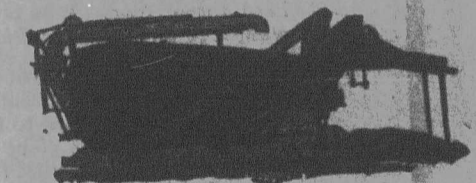
RAW FURS

## Tractors and Threshers



WATERLOO BOY

The Simplest, most Accessible, most Powerful 3-plow Tractor on the market. Suitable for hauling 3 plows, Threshing, Silo Filling and General Farm Work.



Individual Farmers' Threshers, suitable to be driven by small Tractors and Gasoline Engines. Do your own threshing. Keep your farm clean and save expense.

Write for free catalogue, prices and any information wanted.

**THE ROBT. BELL ENGINE & THRESHER COMPANY, LIMITED, Senforth, Ontario.** Also Steam Tractors, and large size Threshers

**GRAND TRUNK RAILWAY SYSTEM**

**The Double Track Route BETWEEN MONTREAL, TORONTO, DETROIT AND CHICAGO**

Unexcelled dining car service

Sleeping Cars on Night Trains and Parlor Cars on principal Day Trains.

Full information from any Grand Trunk Ticket Agents or C. E. Horning, District Passenger Agent, Toronto.