

Fourth Great Dairy Annual Magazine Number

VOL. XXXI.

NUMBER 12

# FARM AND DAIRY

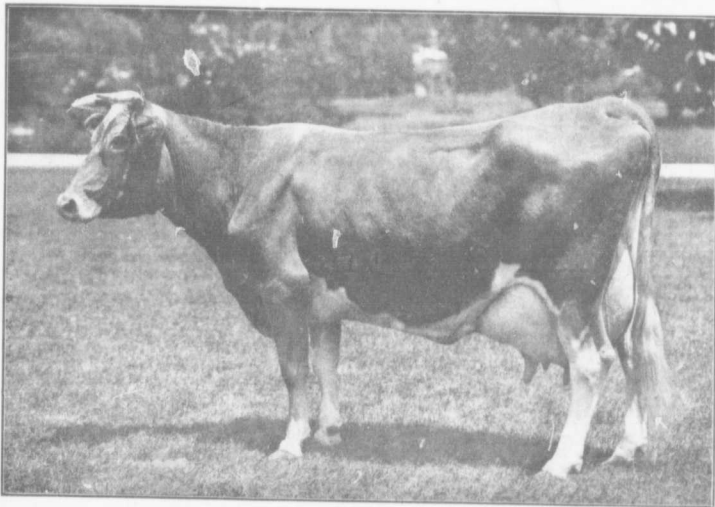
## RURAL HOME

Dairy & Cattle  
Date of April - Dec 31

PETERBORO, ONT.

APRIL 4

1912.



### COWS MARK THE MAN AND GOOD COWS EVER BRING PROSPERITY

Our ideas, hopes, expectations and intelligence can be measured by the cows we keep. Good cows mark progressive men, since cows will not amount to much without the men. And dairying is no child's play. It is no job for lazy men. The best of thought and effort are demanded to maintain good cows, hence they always tend towards prosperity. Out of these facts you may decipher why Dairying occupies first place in Canadian Live Stock interests; why Dairying receives more attention from governments; why Dairy farmers are a class known for their prosperity in advance of others. Good cows account for the prosperity of readers of Farm and Dairy.

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Of  
The Dairy  
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### WE PRODUCE THE WEALTH—THE "BIG INTERESTS" GET THE CREAM

#### CONDITIONS INDICATE AN INCREASED DAIRY PRODUCTION IN 1912

The Increase Will Not be Large—Feed is Scarce in Many Sections but Cattle are Generally in Good Condition—What Our Correspondents Say.

THE production of dairy products in Canada for the season of 1912 should show a satisfactory increase over the production of 1911. It is yet a little early to predict an increase with any degree of certainty, but conditions, as reported by Farm and Dairy's special correspondents all over Ontario and reports received from other provinces all point that way. The record high prices that have prevailed for dairy produce during the last year have not generated as much enthusiasm among dairy farmers as might be expected at first thought. And the increase, therefore, will be normal.

The reason for this as expressed by our Peel County correspondent, Mr. W. J. Graydon, finds expression in letters received from many other Farm and Dairy correspondents in various parts of Ontario. Mr. Graydon says: "High prices of dairy produce have not induced our farmers to increase their output owing to the high prices for feed." Another phase of the same subject is touched by Mr. A. Jackson, a Grey County correspondent who calls attention to the high prices of milk cows and states that farmers cannot afford to purchase such high priced cattle. Our farmers generally consider that if prices have been high for their produce, they are no higher than the increased cost of maintaining their dairy herds would warrant. Some Farm and Dairy correspondents, however, are more optimistic and claim that the high prices will lead to much greater production in their own neighborhoods at least.

INCREASED DEMAND FOR CITY MILK. Another factor that will prevent an abnormal increase in the output of cheese and butter are the increased demands of the city dairies. From Halliand County, Mr. O. J. Smith tells of farmers in his section being paid 30 cents a pound butter fat for cream to be made into ice cream. Factories cannot compete at prices such as this. Our Kent County correspondent says that some farmers who retail their milk are getting eight cents a quart for it. The dairy companies in our larger cities are ranging further afield for supplies and increasing their demands every year.

The feed situation is not as bad as was feared it would be. While in most parts of the country there is not a surplus of fodder there will never-

theless be enough to carry the stock through in good condition for the early grass. In a few sections farmers are buying baled hay by the car load, notably in Western Ontario, but this is the exception rather than the rule. Cattle generally will go on to grass in as good condition as in previous years. Conditions in the other provinces are reported as similar to the conditions that are reported herewith by Farm and Dairy's Ontario correspondents:

#### AN INCREASE HERE.

"There will be about five per cent more milkers than last year. Indications point to a large output of milk."—R. D. McLeod, Glengarry Co.

"We will have as many cows in as good condition as last year and will have about the same make."—C. St. Pierre, Russell Co.

"There will be a little more milk and from appearances more cheese this year than last."—P. Brisson, Russell Co.

"There will be about the same number of milk cows as last year. Feed is plentiful and cows are looking fine."—Chas. Chambers, Dundas Co.

"There will be more cows than last year. Cows are in good condition and we expect larger cheese make."—Alex. Hess, Dundas Co.

#### MAKE MAY INCREASE.

"Cows number about the same, are in good condition and the cheese make will be about the same, perhaps a little better."—Jas. Fretwell, Grenville Co.

"There will not be as many cows but the cows will be in better condition and there will not be much difference in the quantity of cheese made."—J. W. Fretwell, Grenville Co.

"There may be a few less cows, but cows are in better condition."—F. Brown, Grenville Co.

#### A DECREASE EXPECTED.

"There may not be as many cows milking as feed is scarce. Cows 2-12 not in as good condition this year."—D. P. Alguire, Leeds Co.

"We will have 75 more cows at our factory this year."—J. W. Wallworth, Lanark Co.

"There is ample food and stock is in better condition. Also there will be more cows milked."—P. M. Campbell, Lanark Co.

"There will be as many cows as last year and in as good condition."—H. Deving, Lanark Co.

(Continued on page 17)

# FARM AND DAIRY & RURAL HOME

## A BRIEF SKETCH OF SOME WORTH-WHILE THINGS ON A FIRST PRIZE FARM

**A Western Ontario Farm, Which Through Good Management, as Reviewed in This Article, Won First Prize For Its District in the Interprovincial Dairy Farms Prize Competition Conducted by Farm and Dairy Last Year**

As nice a farm as one can wish for is the 115 acres, owned and worked by W. A. Paterson, at Agincourt, York Co., Ont., which farm was awarded the first prize in district No. 4 over all competitors in Western Ontario in the Interprovincial Dairy Farms Prize Competition conducted last year by Farm and Dairy. This farm is favored by nature. It is situated in one of the finest general farming sections in Ontario, the land being but slightly rolling and of a clay loam soil, the like of which every good farmer knows and appreciates the value.

It required a great deal more than nature gave him in the general character of his farm, however, to enable Mr. Paterson to win first place in the great district in which he was competing.

It was his all round high average score, particularly in those departments relating to farm management, workmanship, neatness, crop rotation, freedom from weeds, book-keeping, and other important points we might mention, along with his good average on all other departments of his farm, which won for Mr. Paterson the coveted prize and placed his farm in the premier position amongst his competitors. These points as they appealed to one of the editors of Farm and Dairy, who along with Mr. Simpson Bennie judged the farms in Western Ontario last July, are dealt with in brief in this article written from notes made at that time.

Like many other progressive dairymen, Mr. Paterson recognizes the superior value of pure bred cows. He is partial to Holsteins and has a real nice herd. At the time of our visit he had 10 cows milking, eight of these being pure breeds. As rapidly as he can conveniently Mr. Paterson is working into pure breeds entirely. The milk has never been sold away from this farm, butter being made at home and sold in the splendid, not far distant market in Toronto.

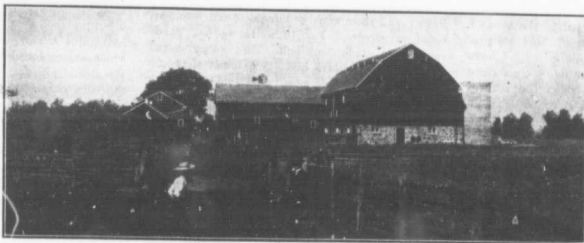
The silo is of course an important factor on this as on all other up-to-date dairy farms. A cement silo, which may be seen in the illustration on this page, is now in use. Previous to the erection of this structure two years ago, Mr. Paterson had an old-fashioned square silo inside of the barn. This old silo he pulled down and replaced it with the cement silo outside the barn.

**THE SILO IS VERY EFFICIENT.**

Speaking of his experience with silos, Mr. Paterson said, "I would not like to be without the

silo, especially when one can get well matured corn to put in it. My new silo is in every way satisfactory. It cost me for the work, by contract, \$95, plus 30 barrels of cement and 50 loads of gravel. I like it better than the wooden silo."

Generally during the winter time Mr. Paterson has a few feeding cattle. These he keeps in an old part of his stables otherwise not in use. This old cow stable, and old root cellar in connection with it, are quite unhandy and we judges scored him accordingly for it. His modern stable, however, where he keeps his dairy cows and which is the main stable, has many points about it that are commendable. It has cement floors throughout, water basins in all of the stalls and a system of ventilation is provided. The ventilation is not



**A Glimpse From the Rear of a First Prize Western Ontario Farm**

A fair idea of many things as they are to be found on this farm, as described in the adjoining article, is afforded by this illustration from a photograph taken by an editor of Farm and Dairy at the time of judging the competing farms last July. Mr. Simpson Bennie, Ontario's famous gold medal farmer, who was one of the judges, may be seen to the right; Mr. W. A. Paterson, the progressive owner of this splendid farm, to the left.

as complete as it might be; it consists altogether of outlets, these being chutes at each purline post, the chutes being made of 10-inch boards. The only inlets are the windows and doors. Mr. Paterson is partial to the water basins. He likes them very well and would not be without them.

**CLEAN STABLES, WHITE-WASHED.**

While this stable is far above the average in the matter of sufficient light, it would be improved with more window space. Whitewash on the walls gave the stable a fine appearance and made it appear quite well lighted. Everything about the stable was clean and neat and gave evidence, as indeed did everything else about the place, of being under the management of a man who believed in the value of having everything done up neatly and kept in first-class order.

The water supply on this farm is immense. Other than the main supply from the well, which is pumped by a wind-mill, there were other supplies by well or cistern. Of these we did not altogether approve, one being right in the stable with a pump in it, the other in the pig pen from which water was supplied to the hogs. The ce-

ment floors of course precluded the possibility of there being drainage into this source of extra supply as would be the case in many stables. Mention of these is made only because they appear to be, in at least one case, quite unnecessary and therefore more of a nuisance, if not a danger, than the owner realizes.

Pigs are kept to consume the by-products of the dairy and to turn in their share of revenue. We noticed that there were no brood sows on the place and on enquiry we learned that Mr. Paterson has found that for him there is no money in raising hogs, that it pays much better to buy store hogs. Where conditions are different, and on rougher farms, hogs can profitably be raised where a profit would not be realized on a farm like Mr. Paterson's, and as it was remarked at the time of our enquiry, "There are always 'fools' enough to raise the pigs."

"There is nothing that will bring money in any better on a farm than two or three brood mares raising colts each year," said Mr. Paterson, as we looked over his fine string of work horses. Mr. Paterson bred four mares last year. He had on hand six horses and three colts, some of which were away to pasture and these we did not see. The one mare, as photographed and reproduced elsewhere in connection with this article, gives a fair idea of the stamp of mare Mr. Paterson likes and keeps.

A small orchard of four acres on this farm justifies its being in the annual revenue it returns. This orchard is kept in good shape. It was being pruned at the time of our visit in July. Mr. Paterson believing in summer pruning since he finds it more convenient to get it done at that season and it has been his experience that with the summer pruning wounds heal over more rapidly and do not sucker as readily as when pruned at other seasons.

Right next to the orchard is the garden. Like many other farmers, Mr. Paterson here has made the mistake of having it too small and fenced in so as to make it impossible to use a horse. The garden is very convenient to the kitchen and was in excellent shape. The soil appeared to be particularly fertile and every appearance was in evidence of it being a valuable plot of land and yielding bountifully of all things that would be acceptable and should be on every farmer's table during the garden season.

**HOME NOT ELABORATE BUT COSY**

Mr. Paterson's house, as may be seen in two of the illustrations appearing with this article, is not in any way elaborate and is quite what

(Concluded on page 38)

### Alfalfa the Dairyman's Best Feed.

H. R. Nizon, Brant Co., Ont.

Thirty-five years ago I sowed my first field of alfalfa, eight acres. I did not know enough at that time to cut it early. I cut it about July 1st to 10th,—same time as we used to cut mixed clover and timothy. Of course, we lost nearly all the leaves and only got the hard dry stalks, which were little use for food. I decided that alfalfa was no use for hay. We always pastured it after the first cutting with the natural result that it soon died out.

I have learned something about alfalfa since then. We have been growing it ever since, but have changed our methods. We now cut it June 20th and twice afterward the same season and never on any consideration turn a hoof of any kind on it to pasture excepting where it is sown especially for hog pasture in small fields near the pens. I have frequently seen these fields totally killed in one season by close pasturing with hogs.

#### THE VERY BEST FEED.

I consider alfalfa much superior to any other kind of hay for dairy cows, especially the second and third cuttings. The first cutting is apt to grow a little coarse, especially if not a thick stand.

I always sow 20 pounds of seed to the acre. I now have 20 acres seeded to alfalfa and am preparing to sow 20 acres more this spring. I have fed alfalfa twice a day to our dairy cows since July 7th last as pasture was short last season, we fed green corn as well and of course ensilage in winter. I cannot too highly recommend alfalfa to dairy farmers.

### What Should He Do?

Mr. Walter Payne, a Farm and Dairy subscriber in Victoria Co., N.B., wants to get better dairy stock. He writes Farm and Dairy as follows:

"Would it pay me to sell my cows that produce annually from 6,000 to 7,000 pounds of milk and get right into pure bred stock? Or would it be better to get a good bull and keep the cows I have? I would like to know what some of your readers think of my problem?"

Mr. F. R. Mallory, Hastings Co., Ont., whose success as a breeder of Holstein cattle is well known to Farm and Dairy readers, deals with Mr. Payne's queries in the following manner:

"There is no doubt about the financial success of pure bred stock both as milk producers and money getters from the sale of surplus stock. A new enjoyment also is taken out of the dairy business from a breeder's standpoint, viz., in competition of the breeds, in competition of individuals of the breed, in being one of those who are by act as well as word, placing the dairy stock business upon a higher plane. I would say a pure bred herd every time for interest in our work, ambition to succeed and profit from the business.

"The means of acquiring the herd is one for W. P. to decide, according to his means. By buying a pure bred sire and several females the mixed stock can gradually be eliminated in a few years, with a comparatively small investment.

"The man with the nerve to sell out what he has and buy what he wants usually succeeds even better than the one who is more conservative in

his methods. Of course, the latter way means more capital invested at the present price of pure bred stock. But the future of the pure bred dairy cattle industry looks good to me. Capital invested by a careful man will certainly pay a good interest on the investment."

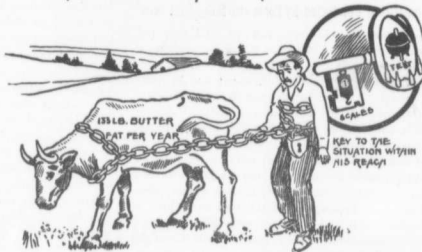
We invite others of our readers to give their experiences in improving their dairy herds. There are many thousands of our dairy farmers who are in exactly the same quandary as Mr. Payne.

### Our Pure Bred Dairy Cattle.

A. S. Turner & Son, Wentworth Co., Ont.

We bred pure bred dairy cattle because we

### CHAINED TO THE WRONG COW



OVER THE HILLS TO THE POORHOUSE

have found them more profitable in our own personal experience. For 15 years we had grade cows and a grade stock bull. Then we purchased a registered Yorkshire bull. We found that one cross produced much more profitable cows than we had been keeping. We continued to use a pure bred sire from year to year with increasing success.

Seeing the great improvements in our herd we decided to branch off into pure bred stock entirely, for in so doing we were getting the highest ideal of the dairy cow. We can now easily sell our calves when dropped at an average of \$50 a head, whereas grades are worth a comparatively small amount. Besides being more profitable, pure bred cattle are far more beautiful than grades. One can take more interest in a pure bred animal. We found that when we got pure bred stock our interest urged us to get our stock to the highest standard possible.

Our first consideration is the milking qualities of our cattle as that is where we get the most profit. We believe in weighing each cow's milk as milked. There is no other way of doing it correctly. For this reason we consider the record of performance work is a grand thing for the country, as it gives every breeder a chance to know what his cows are giving, and he has an authentic record of present to purchasers. Even were our cows not pure bred we would still weigh their milk to know if they were profitable or not.

### For a Bigger, Better Crop of Corn

Myles Hartley, Oxford Co., Ont.

Our dairy farmers cannot afford longer to talk with the corn crop. The amount of corn that is grown for ensilage on our farms is a comparatively small amount in comparison with what might be grown with great profit to ourselves. Corn is the king of crops. There is no crop that we dairymen should value more highly. It will give us more cow feed per acre than any other crop we can grow. It combines succulence and palatability, hence for those of us who practice winter dairying it is invaluable. We ourselves after feeding it for many years consider ensilage an indispensable part of the ration. We do not know of any better motto that dairymen could adopt for the season of 1912 than "A Bigger, Better Crop of Corn."

We see by the provincial reports that the acreage of corn grown for ensilage purposes in Ontario increased from 327,627 acres in 1910 to 335,935 acres in 1911. If we mistake not the signs of the times, the increase in 1912 will be much greater than in the previous year. We should ask ourselves the question, Are we getting the best value in feed from that acreage?

#### DOUBLE THE PRODUCTION POSSIBLE.

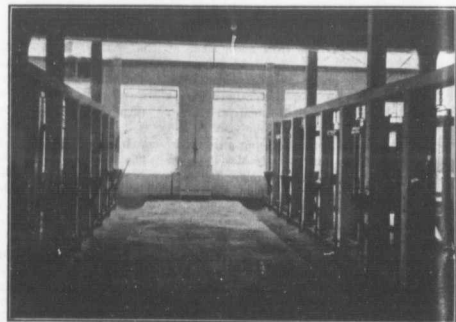
Referring again to the official statistics we find that in 1911 the average corn crop was only a little over 10 tons per acre. There is no reason why it should not be 15 tons and in many cases farmers in our own section have gotten 20 tons an acre of good ensilage from a large area. We doubt very much also, if the quality of the most of the corn harvested for ensilage is as high as it might be. We have seen corn put in the silo that should have contained twice as much feed value a ton. It was green, watery stuff at which any respectable cow would turn up its nose. We should aim for both quality and quantity in the corn crop.

We grow from 15 to 18 acres of corn for ensilage each year. Our farm is laid out in four large fields and we follow a rotation of corn and roots followed by grain, clover one year and then pasture. This rotation combined with a large hoe crop, we find excellent for maintaining soil fertility and keeping the land free of weeds.

#### WHY WE FAVOR SPRING PLOWING.

We are inclined to favor spring plowing for the corn crop but on heavy clay soil it may be better to plow in the fall in order that the land

Concluded on Page 15.



Good Stables Have a Big Influence on Production and Profits

The stables here illustrated are almost ideal for economy in labor, comfort for the cows and the maintaining of the health of the herd. Notice the individual watering device, the simplicity of arrangement, the comfortable stanchions and the abundance of light in these stables. The ventilation also is of the best. Cows in such a stable as this one will yield maximum returns for the feed and care expended on them.

—Photo taken in stable at Central Farm, Ottawa.

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**The Silo is a Necessity**

*Benjamin Levens, P. E. Co., Ont.*

In these days of high priced land and when people are aiming to have good cattle, which, by the way, are the only ones that are profitable, I feel that the silo is not only a convenience but a necessity. In my judgment a good silo is equal to an addition of 25 acres to a farm when we have ensilage to feed the year round. Ensilage



**A Good Investment with Assured Returns**

Progressive dairy farmers now recognize the silo as a sure money maker. The finest cement structure here illustrated is on the farm of Thos. Geddes, Brant Co., Ont. It is 35 by 14 feet, and was erected at a cost of \$165.

—Photo by an editor of Farm and Dairy.

is especially valuable to have during the hot summer months.

The result of my own experience in summer feeding of ensilage was a full flow of milk until September, when my ensilage gave out and the milk dropped fully one-third. I find the best ensilage is made from well matured corn evenly distributed inside the silo, with a pipe or sacks sewed together for the purpose, and well tramped by at least three men at the time of filling.

**The Road to Greater Production**

*R. W. Walker, Ontario County, Ont.*

Official statistics prove that the average cow of Ontario gives 3,000 pounds of milk in the year. All dairymen who have risen above the average will agree with me that the average dairy cow of Ontario can be vastly improved by following better methods of breeding and feeding. We feel quite safe in saying that the average 3,000-pound cow can be transformed into a 6,000-pound cow if she were bred for it and fed for it. That improvement would mean the doubling of our income. Surely that is worth while.

The sire plays a very important part in the plan for the future improvement of the average dairy cow that we are going to produce. By using pure bred dairy sires and raising only the best heifer calves there would soon be a radical change in our dairy cattle.

When we get the breeding right, feed is the next all-important factor towards making the 6,000-pound cow. We prefer to have our own cows fresh in the fall or early winter; then by generous feeding all through the winter we get a large flow of milk. When the cows go out in the spring to the fresh grass the flow of milk will

increase. When the pasture begins to fail with the hot, dry weather it is well to supplement pasture by feeding in the stable. We feed green oats, peas, alfalfa clover, or any other green feed we may have on hand.

We know from experience that any one who owns the 3,000-pound cows can, by giving this matter a little thought and study, transform their cows, not only into 6,000-pound cows, but up to 9,000 or 10,000-pound cows which will not only be of vast benefit to themselves, but will add a large amount of wealth to the whole country. Perhaps we should not have mentioned the 10,000-pound cow; but we know well that when the 6,000 mark is attained (that's easy), no one will be content to stop there.

**We Need Better Pastures**

*Henry Glensinning, Ontario Co., Ont.*

Our pastures in Ontario are not good. This is not the fault of our climate, but of our system of farming. Most of us seed down to red clover and timothy. We cut for hay the first year and probably the second year. By the third year when we decide the pasture of the land, there is nothing left but timothy. Of all the grasses that grow, timothy is the poorest in the ingredients that we need to produce milk. Cows may be walking in a pasture with six inches of nice green timothy grass, but their milk flow is not good. The nutriment is not there.

On clover pasture the story is different. There is abundance of nutrients and the milk flow is good. The same applies to our natural pastures of blue grass and sweet clover. An apparently poor pasture of these grasses will bring better results than will a good timothy pasture. If we are going to follow the pasture system we should seed to those grasses that will produce good pasture. Even then we should make provision for a dry spell as these grasses do not last during the whole summer. It is here that the summer silo comes in.

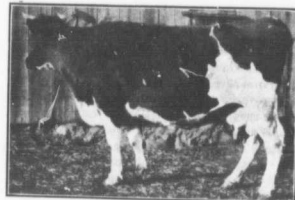
**Our Rotation.**—We sow our corn ground to oats and seed it with clover and timothy, equal parts, but sometimes we do not get a good catch as the heavy leaf of the oats shades the young clover too much and the sun kills it after the oats are cut. When we plow our clover sod we plant it to beans. We work the land for beans much as we do our corn ground and keep it free from weeds. Then we generally sow to fall wheat and seed it down again. We seed all our grain crops with clover and timothy. We have about 100 acres of crop each year and in this way we keep our land pretty clean from noxious weeds and get the benefit of crop rather than weeds.—E. B. Tolo, Kent Co., Ont.

**Value of Pure Bred Sire Demonstrated**

*George Cooper, York Co., Ont.*

"'You have to show me.'" That's the way most of us learn our lessons. Well I have been shown. I could satisfy even the man from Missouri that it pays to use a pure bred sire in the dairy herd. The following is the record of one of my cows.

This cow here illustrated is a grade Holstein. In the 12 months just past, she has produced 19,301 pounds of milk and she was down with milk



**A Money Maker of the First Order**

The grade Holstein cow, here illustrated, produced over 19,300 pounds of milk in her last lactation period. Read in the adjoining article what Mr. Geo. Cooper, York Co., Ont., her owner, has to say about this record.

fever for six days at that. Her highest record for one day was 84 pounds, and in one month 2,272 pounds of milk. Here is what I received (wholesale price) for that milk after deducting cost of carting:

44 1-4 cans at \$1.35	.....	\$57 03
77 1-2 cans at \$1.03	.....	79 82
53 1-2 cans at \$1.13	.....	60 45
62 cans at \$1.00	.....	62 00

Total .....\$296 50

And all this milk came from one cow! Where did she get her dairy qualities? Certainly not from her dam. Her dam was a good milker, but not phenomenal. She was sired, however, by Roosevelt, 2,437, a pure bred Holstein of a good milking strain. It was his blood that made my cow the producer she is. Did it pay me to use a pure bred sire in my herd?

When you have decided what breed of sheep to raise, select good grade ewes. Even if it is for cross breeding use a pure bred sire. Have the ewes in fairly good condition when the mating season comes.—A. Stevenson, Perth Co., Ont.

An exchange suggests that the automobile is doing a great deal for this country in making good road advocates out of the men who were previously very indifferent. Quite right. The only trouble is that these men think they now own the roads.



**The Eastern Townships are Justly Famed for their High-Class Herds of Ayrshires**

Quebec province has been termed the American home of the Ayrshire. It was there that Ayrshires first gained a strong foothold in America, and from herds in that section of Canada have come some of the greatest prize winners of the breed. A few of the animals in the splendid herd of W. F. Kay, Missisquoi Co., Que., are here illustrated.

### How a Veteran Breeder Started

Wm. Stewart, Northumberland Co., Ont.

My idea of making a success in dairying is to start at the foot of the ladder and work up. The young man who is willing to do this will learn as he goes. Many failures in dairy farming have resulted from men with lots of money jumping in at the top.

The necessity of starting at the bottom applies with particular force in the case of breeding pure bred cattle. To take hold of a pure bred dairy herd at the first go off is like an unskilled workman going into a factory to do the work of a skilled mechanic. Since we started to exhibit at the fairs more than 20 years ago, we have had many men come around, become attracted by the fine appearance of our herd, and go away saying, "Why can't we have cattle like that?" They had the money, they got the cattle, but we never hear of them as breeders of note. They failed because they lack the experience. I would advise farmers who would like to have better stock to buy a good bull, and add females gradually. Do not spend too much money at once. The man who starts in this way will stay with it and in the end make a success.

We ourselves started with two young heifers and a pure bred bull 30 years ago. We had a good grade herd and we gradually worked out of the grades and into pure bred cattle. As we now look back on our experience with dairy cattle we believe that we could not have started better. At one time there were eight millionaires competing with the herds of Alex. Hume and I. They were the kind who started into it big. Now there is not one of them in the show ring.

### Shall We Summer Fallow?

Geo. Johnson, Halton Co., Ont.

"The trouble with farming nowadays is that land is not tilled enough. There is too little summer fallow. You know land is like all of us, it needs a rest. We must not work it too hard. When land is lying fallow it is certainly resting." In these words, an aged farmer in Northumberland county expressed to me his belief why farming in Ontario is not advancing at the rate that it should and why crop yields were not increasing.

It was probably in this opinion that land needed rest that the summer fallow idea originated. This idea we can lay on the shelf along with many other discarded ideas. We Ontario farmers have to pay too much for our land to allow it to lie idle one year to get a decent crop another.

#### DOES FOLLOWING INCREASE FERTILITY

I have been told time and time again that in some mysterious way following increases soil fertility. It has been my experience that following simply tends to greater impoverishment of the soil. The only real arguments that can be advanced for summer fallowing (I prefer to call it summer tillage) are the conservation of moisture and the eradication of weeds. I believe in applying this principle as far as possible to obtain these two ends.

I believe in cultivating the soil up to the first of July or even into the middle of July, before seeding to alfalfa. My object here is a double one, the conservation of moisture to give the al-

falfa a good start and the eradication of weeds. In the dry season of last year, when I started to sow my alfalfa in July, one had just to kick aside the dust which on top, and there was as fine and moist a seed bed as one could desire.

#### AFTER HARVEST CULTIVATION

Another application that I sometimes make of the summer fallow idea is in after harvest cultivation. As soon after the harvest is removed as conditions will permit, I plow shallow, disc, and drag the field occasionally right up to the fall. Here again I am obtaining two purposes, getting rid of weeds, and storing up moisture for the crop of the next year.

My aged farmer friend already referred to did not realize that nowadays we are still applying the summer fallow idea even more extensively than he did in his early days, only we call it a hoe crop. I believe that land in corn or roots thoroughly well cultivated is put in just as good physical condition as by a summer fallow, and this method is even a more efficacious manner of ridding the soil of weeds and conserving moisture and the crop the following year will be just as good. I would be very sorry to see a return to the old



The Calves of To-day are the Cows of Tomorrow

Which of these calves will make the best milk cow? Which should we keep for our herd? Which send to the butcher? How is one going to know if the relative merits of the dam and production, and raise only those calves that have high producing dams. This system, along with the use of a pure bred sire of milky quality, makes a good paying herd possible to all of us without large initial outlay.

—Photo on farm of Mr. Lobb, Huron Co., Ont.

fashioned method of summer fallowing. We can't afford it. We don't need it.

### Jottings from Farmers

If the boy has a team of his own, one that is good enough to be the pride of the neighborhood, I believe it will be a strong connecting link between that boy and the farm.—L. P. Gilbert, Bromo Co., Que.

Cow testing is one of the best labor saving problems a farmer can take up. If you can get as much milk now from 15 cows as formerly from 30 cows, is that not saving labor?—C. F. Whiteley, Ottawa, Ont.

We feed our draught colts so that they will put on weight steadily from the first. Weight as well as quality counts in determining the prices that we receive from the dealers.—C. E. Southwick, Ontario Co., Ont.

We cannot understand why so many farmers persist in trying to raise colts for the market from inferior breeding stock. It costs just as much to raise a poor horse as a good one, and the latter may sell for three or four times as much.—Jas. Armstrong, Wellington Co., Ont.

### A Letter From Holland

D. Schoemaker, Hongarspel, The Netherlands.

We Holstein breeders here in Holland are always interested in hearing of the doings of our brethren on your side of the Atlantic. Perhaps a few notes on the practices of one of our breeders over here, Mr. Groneman, will be of interest to Farm and Dairy readers who are interested in the breeding of dairy cattle, and of Holsteins in particular. I recently had the pleasure of a visit to Mr. Groneman's farm, took several photos of his stock and buildings and got the benefit of some of Mr. Groneman's views on the subject of breeding.

Many of our farmers here are afraid of breeding in and in. They fear that they will get weak animals, and, above all, that the weak qualities of their animals will come out stronger and stronger. Mr. Groneman referred to this and remarked that he knew of many farmers with nice herds of cattle who after some time disappeared as well known breeders. Mr. Groneman expressed his ideas on the subject as follows:

#### TO FIX QUALITIES

"Many a farmer who has built up a good herd and has in his stable a fine sire of his own breeding after some years begins to fear the close relationship that exists between all the animals in the herd and buys a strange sire. The purchased sire may be a very good individual, but as a result of his stay in the herd many of the good points for which the breeder's stock was noted will have disappeared without the addition of other good points to make up for the loss. By following the old line of breeding the prominent good qualities will come out better and remain."

Following out his belief, Mr. Groneman has not purchased much stock from other dairy breeds, and has been very lucky in his breeding operations. Some years ago, he secured a bull with great good breeding as well as a nicely built body, and from a strain that produced milk with a high fat content. Mr. Groneman never pairs dam or sire with their offspring or a whole brother or sister with one another.

#### A CONSTANT WINNER

Ever since 1897 this breeder has had every year a young sire of his own to head his herd that had gotten a prize at the exhibition, or judgment of that year. Since 1905 it has appeared as if his stable must have, forever, the first prize animal in the exhibition. The farmers of this country, therefore, pay with pleasure much money for his cattle; if they can buy them. And above that he sells many of his culls to other countries, such as Poland, South Africa, Japan, etc. For example, his bull, Frars 41, would have gone to South Africa last summer for \$1,400 if there had not been foot-and-mouth disease to prevent the deal.

When a horse is working it needs its food in a concentrated form. We believe that many of our farmers are making a big mistake in feeding too much hay to working horses. We feed hay in moderate quantities, morning and night, and fairly heavy grain rations three times a day, the biggest feed, however, being given at night.—Jas. Armstrong, Wellington Co., Ont.

Why I don't know today that to us all the



C. F. Whiteley, Ontario, is a dairy breeder and a successful farmer.

In almost every practical difference in \$500, and in a herd that methods and cow is kept. case. A man three years pounds of milk mediate neighbors obtained from pounds of milk at \$1 a cwt. the 12 cows, been increased.

### Prevention

W. I. Many young year. Loosed by pain a serious, pro change of foot toms should steps taken a form. The this kind who a bunch of of lasting perhaph ill effects.

The calf starts the calf and the mother calf, and a that only a digestive. or Always. If you are feed safe side for been given to cause constip. ent in occur has not been a follows. r in such cases. a two ounces all that is rec On no account be given until form.

If the calf with the drop and weakness, remove the fr I generally see with 20 to 25 crossing the o

### Why Not Double Your Income?

C. F. Whitley, In Charge of Records, Ottawa.  
I don't know any phase of the dairy industry to-day that could be pushed with greater profit to us all than the detection and elimination of the poorest cows from the herd. It is very evident from the records that we receive that there could easily be double the amount of milk produced if the farmer would profit by dairy records. There are very poor cows in the country, and there are a very great number of very good cows, and if the farmer would take the trouble to apply a little arithmetic to his herd, with the help of his bright son or daughter, he would very quickly be in a position to build up a profitable herd where each individual cow is well worth keeping.

C. F. Whitley

with the help of his bright son or daughter, he would very quickly be in a position to build up a profitable herd where each individual cow is well worth keeping.

In almost any township, I think it is safe to say in practically any township in Ontario, the difference in income may be put at from \$300 to \$500, and in some cases considerably more, from a herd that has been selected by cow testing methods and a herd where simply the average cow is kept. For instance, to give one definite case. A man who has been keeping records for three years now has 12 cows averaging 8,173 pounds of milk and 284 pounds of fat. An immediate neighbor who has just commenced to record, obtained from 15 cows an average of only 3,945 pounds of milk and 149 pounds of fat. With milk at \$1 a cwt., if the 15 cows had been as good as the 12 cows, the second man's income would have been increased by \$634.

### Prevention and Cure of Calf Scours

W. Retson, Herdsman, N.S.A.C.

Many young animals are lost by scours every year. Looseness of the bowels when not attended by pain and weakness need not be regarded as serious, providing it can be accounted for by change of food, or other good reason. The symptoms should be carefully watched, however, and steps taken to prevent its assuming too violent a form. The writer has frequently seen cases of this kind when a form of diarrhoea would attack a bunch of calves, passing from one to another lasting perhaps two or three days, and leave no ill effects.

#### START RIGHT.

The main thing in preventing scours is to get the calf started right. The natural first milk of the mother is most suitable for the young calf, and afterwards care should be taken that only as much milk is given as the digestive organs can dispose of easily. Always be sure to know how much milk you are feeding. It is better to be on the safe side for at least two weeks. When milk has been given to excess it is apt to coagulate and cause constipation, which in most cases will result in scours. Also when the cow's first milk has not been given to the calf constipation usually follows, resulting most frequently in scours. In such cases a dose of castor oil, say from one to two ounces for a young calf, will generally be all that is required to cause a gentle movement. On no account must opium or other astringents be given until the case assumes a more violent form.

If the calf refuses food and blood is mingled with the droppings, accompanied by great pain and weakness, immediate steps must be taken to remove the irritating matter. For this purpose I generally use from one to two ounces castor oil, with 20 to 25 drops opium for a young calf, increasing the dose according to age. Out down

the amount of milk given at least one-half, and feed oftener in smaller quantities adding from one to two tablespoonfuls lime water in each feed.

#### FOR OBSTINATE CASES.

In the most obstinate cases the following has given good results: One ounce powdered catchu; two ounces prepared chalk; one-half ounce ginger; two drams opium; one pint peppermint water. Mix all ingredients together and give as a drench two tablespoonfuls morning and evening.

Good nursing at this time is worth a great deal of doctoring. The calf should be put in a light, airy pen, any pen well bedded, a reasonable distance from other calves as this disease is in most cases very infectious. The utmost cleanliness of feeding pails should be secured.

### We Plant Corn too Thickly

Henry Glendinning, Ontario Co., Ont.

Most of us plant our corn entirely too thick. Travelling around the country I have noticed that in many cases the rows or hills are too



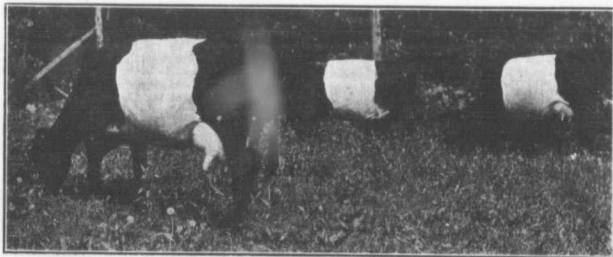
A Scene such as is Characteristic of Nova Scotia

Nova Scotia people have abiding faith in the future of the dairy industry in their province. Dairying is going ahead faster than any other branch of live stock farming. The scene here illustrated is on the farm of J. B. Semple, Colchester Co., N. S., a well known breeder of Jersey cattle and Berkshire hogs, and a reader of the Contributor to Farm and Dairy.

close together and that there are too many stalks in the drill or hill.

Corn takes the greatest portion of its nutriment from the atmosphere in the form of carbon-dioxide. The corn plants should be bathed in sun. The formation of starch and sugar, which comprises a good portion of the nutrient value of the corn plant, is formed under the action of the rays of the sun and the process is facilitated by keeping the rows or drills a good distance apart.

Many think that if corn is to be fed green it should be sown very close so that it will develop small stalks. This is a great mistake as those small stalks contain very little food value. We are growing the Leaming variety of corn and always have the drill 42 inches apart. We get more food to the acre than we would if the drills were 30 to 36 inches apart.



The Best of Their Breed—Attractive and Profitable

Dutch belted cattle are not usually considered as milk and butter producers of the first order, and in public tests have not stood very high in competition with other dairy breeds. There are good individuals in all breeds, however, and Mr. G. Gibbs, Marlboro, N. J., has cows of that breed of good type and producing powers. Illustrations of three of Mr. Gibbs' cattle may be here seen.

### Land or Stock, Which First?

G. A. Brethen, Peterboro Co., Ont.

What would I do were I a young man with say \$2,000 in cash, some knowledge and experience, who aspired to become a dairy farmer, with the hope of some day owning a good farm, well stocked and well tilled? According to the old truism, "The day you buy is the day you sell." Upon the nature of the investment that I would make, therefore, would depend my future success. There are many young men seriously considering this question right now and I have been asked to give my opinion drawn from experience as to how the young man should start.

Time honored custom would say, "Buy a farm, pay down all available cash and then by hard work, perseverance, and strict economy, proceed to pay for it." We all know the obstacles and the uphill struggle that this method involves. One of the greatest obstacles in this method in my mind is the attempt to run a big business on limited capital.

#### LEARN FROM OTHERS.

Farming is a business proposition and to run a farm most profitably, a stock suitable to the requirements of the farm is necessary. The rising city merchant is endeavoring to establish his business in the majority of cases in leasing his store and investing all available capital in his stock. He must look for his money, not to real estate, but to the trade that he develops. He is only following the experience of successful business men when he assumes that once his business is established, the profits derived therefrom will readily buy land. May not the young man who is starting out in farming take a leaf from the merchant's book? In other words let him reverse the old order of things, invest his available cash in high class registered stock and use his stock to buy his farm. Every system has its drawbacks. From my personal experience with registered Holstein cattle during the past few years, I would recommend to the consideration of every young man of the type I have described, the following plan:

#### RENT THE FARM.

Rent the best available 50 to 100-acre farm at your command, paying particular attention to suitability of barns and soil for the purpose you have in view.

Invest your surplus cash in a good average bunch of females in calf, and a creditable stock bull. All of good type and from producing families.

Sell bull calves, cream or butter and it may be at first because of the limited size of the herd the surplus products of the farm. In no case, however, let your desire to cash clover hay grain, roots, etc., tempt you to sacrifice a sufficiency of

(Concluded on page 13)



A Splendid Herd of Ayrshires such as do Credit to Their Owner and to the Great Scotch Milk Breed, of which they are Representatives. Riverside farm, owned by Senator W. Owens, is the home of some fine Clydesdale and Standard Bred horses, but is best known for its splendid herd of Ayrshire cattle. As may be seen by the illustration, Riverside Ayrshires have both dairy and brood type well developed. Senator Owens may be seen to the left.

### Enthusiastic B. C. Dairyman Talks

G. S. Harris, Moresby Island, B. C. It was just one month after I had started in the dairy business that I became anxious to know which of my cows were supplying the largest amount of fat and just how much. That was four years ago. Then began the weighing and testing.

By the aid of the Cow Testing Association an exact record of all the cows has been kept ever since. I bought cows where I could, not paying over \$70 for any. Those that do not come up to a fair standard are very soon slaughtered.

The method of testing is very simple. A bottle is kept for each cow and every tenth day, morning and night, her milk is weighed and a sample put in the bottle. At the end of the month the samples are sent away and are tested free by the government. This gives an accurate record providing the cows are milked regularly; we milk by the clock. As close as I can figure, the time it takes to weigh and sample, amounts to about one hour a month or very little more than a day's work for the year's testing.

#### NO GUESS WORK HERE.

The following table is a list of all the cows that completed the year's work for 1910, and the amount they produced. Cow No. 10 was slaughtered at the end of year's test. Compare her with No. 1:

No.	Age.	Butter	Fat	Milk
No. 1,	7 years;	533.4 lbs.	11,900 lbs.	
No. 2,	8 years;	521.3 lbs.	11,310 lbs.	
No. 3,	6 years;	399.9 lbs.	8,870 lbs.	
No. 4,	10 years;	359.1 lbs.	8,470 lbs.	
No. 5,	3 years;	342.5 lbs.	7,570 lbs.	
No. 6,	8 years;	319.4 lbs.	7,635 lbs.	
No. 7,	3 years;	288.6 lbs.	6,814 lbs.	
No. 8,	3 years;	269.3 lbs.	5,430 lbs.	
No. 9,	4 years;	287.4 lbs.	5,930 lbs.	
No. 10,	3 years;	231.6 lbs.	4,385 lbs.	

The average production of the nine cows we kept is 370 lbs. butter fat and 7,987 lbs. milk for the year.

#### THE NEXT GENERATION.

From these cows I have a fine bunch of Jersey heifers coming on. A two-year-old heifer has already produced in 10 months over 300 pounds fat and 6,650 pounds milk.

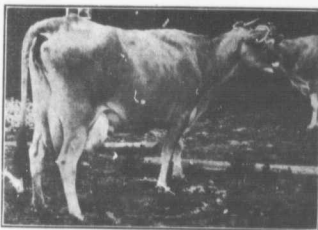
The rules I work on are as follows: 1. Get through all work and chores at 6 p. m. 2. Keep only cows that give plenty of milk and butter. 3. Keep a registered Jersey bull of the best milking strain procurable. 4. Feed cows lots of green stuff in summer, and kale, sludge and clover hay in winter, supplemented by a limited amount of concentrates. 5. Supply plenty of good clean water. 6. Spray

cows for flies in summer. 7. Keep the herd tuberculin tested.

### Guarantee Composition

E. D. Hillier, Oxford Co., Ont.

It is time that farmers are up and doing. A matter that has been little discussed, although of great importance to stockmen, is the quality of



### Can You Pick Your Best Cow?

Mr. G. S. Harris, Moresby Island, B.C. does not guess at his best cow. He knows. And knowledge is power in breeding for more profitable dairy cattle as in all other things. Read Mr. Harris' testimony to the value of cow testing in the article adjoining.

our mill feeds. In 1904 the farmer received \$1.05 a bushel for wheat, and purchased bran at \$18 and shorts for \$20 a ton. His low grade flour also cost \$25 a ton, while flour was the same as at present, \$2.75 a cwt. Note the difference in the price of these by-products to-day. Bran is \$26, shorts \$28, low grade flour \$30, while we are receiving 95 cents a bushel for our wheat.

The cost of the grinding has varied but little. One would think this was getting profits fast enough, without so many of our mills amalgamating, thinking they can put the price where they wish. Perhaps they think also that two heads are better than one to think of trash with which to adulterate their feed. They know the farmer is loaded with stock, and will buy their feed no matter what its composition.

There is a law prohibiting the farmer from adulterating milk and other farm products. Why should we not have the same protection when buying? Every sack of feed should be tagged and labeled with the composition of the contents. This is of interest to all of us, as there is none too much money coming the farmer's way when he gets all he pays for.

### Fertilizers in General Farming

Editor, Farm and Dairy.—I read with interest Mr. Duke's letter in Farm and Dairy of March 7th, in which he very briefly relates his experience with commercial fertilizers, and argues that these materials do not pay in general farming. He states that he found nothing so profitable as barnyard manure. Mr. Duke may have a large supply of manure available for his farm, but the lack of suf-

ficient manure is almost universal in the agricultural world.

Commercial fertilizers should be used not as a substitute for, but as a supplement to, barnyard manure, unless there is already sufficient humus in the soil supplied by a cover crop of, say, red clover. There is no doubt that under average conditions, a well balanced fertilizer used in conjunction with a medium dressing of manure proves profitable.

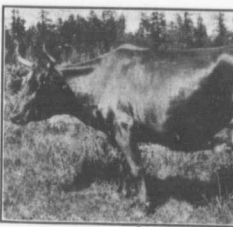
#### CEREALS REQUIRE LITTLE FERTILIZER.

Mr. Duke states that fertilizers do not pay on cereals and corn. The fertilizer requirements of cereals are very small compared with those of other farm crops and the residue remaining in the soil from a fertilized crop would usually suffice for a cereal crop. There is no doubt, however, as to the benefit and wisdom of fertilizing corn, as many thousands of farmers in the United States and Canada have proved. The effect of the minerals, phosphoric acid and potash, is evidenced in the increased number and size of the cobs, whereas a too heavy application of manure would produce a rank growth of stem and leaf and a small cob.—F. V. Thompson, York Co., Ont.

### Experience with Dairy Short-horns

Jas. Ritchie, Huntington Co., Que.

Our experience has convinced us that the dairy Short-horn cow has her



### Can You Pick Your Second Best Cow?

The dairyman who would have his herd constantly improving must himself breed and raise the heifers that are necessary to replenish his milking stock. It is not an advantage to know which heifer calves have the best producing dam? Mr. Harris, a B.C. dairyman, who owns the cow here illustrated, has found it so in his experience.

place in the dairy industry as well as the other dairy breeds. One wants to keep whatever breed answers his purpose best and for a general purpose cow for milk and beef we find that no breed answers the purpose better than the Short-horn. By taking a good herd of cows and crossing with a Short-horn sire of the best milking strain one can in only a few years have a herd of the finest general purpose cows that will produce both milk and beef.

About half of our herd are registered Short-horns. We have been shipping cream to Montreal for 20 years and our average per cow, tak-

ing one year with another, is from \$75 to \$85, after the expense is paid with the skim milk at home to raise the calves.

#### THE CHEAPEST HEIFER.

The heifers are raised to replace the cows that are sold. The cows intended for beef are milked all winter, and when the quantity of milk gets too small to pay for the extra feed they are sold. I consider this the cheapest way to raise beef. Feed is so high priced now that one must combine the two together to get the profit.

There is no use telling a farmer what breed of cattle to keep. We would say to "keep what ever breed answers your purpose best, feed them well, give them good attention, and your success will be assured."

### Alfalfa has Varied Uses

Prof. D. H. Otis, University of Wisconsin

Alfalfa is useful for other stock as well as for dairy cows. Several experiments have been conducted to test the value of alfalfa hay as food for hogs. The results show that when properly combined with grain, alfalfa will produce from 290 to 298 pounds of pork a ton. Ex-Governor Hand reports that he has successfully fed his brood sows prior to farrowing on nothing but alfalfa hay, with an occasional small allowance of skim-milk.

Alfalfa also has produced excellent results in feeding steers, brood mare growing colts, and even work horses. Poultrymen are also feeding alfalfa to the production of eggs. A review of the results of feeding alfalfa with the various classes of animals shows it to be far the best known roughage for farm animals. Red clover has been rightly held in high esteem, but, according to its composition and the results obtained in feeding roughage to farm animals, it has been found less valuable than alfalfa.

#### WONDER PLANT

When we think of alfalfa as a mere feed, it extends its roots to the lower soil and brings up plant food from the sub-soil, that its roots are covered with tubercles, the home of micro-organisms that have the power to hold of the nitrogen in our atmosphere and convert it into a form thus leaving the soil richer than it was before the alfalfa was grown, we cannot help but think that alfalfa is a wonder plant.

All breeds of hogs look good when taken care of, and all of them will yield good money, if rightly handled.



# DE LAVAL

## CREAM SEPARATORS

### Save their cost every year of use

If you are milking even as few as two or three cows and are not using a De Laval Cream Separator you are wasting both quantity and quality of cream every day you go without one.

The larger your herd is the greater your loss without a De Laval Cream Separator.

This applies not only to those who have no separator but to those who are trying to get along with some separator other than the De Laval.

The De Laval saves enough over any gravity setting system in butter fat, quality of cream, sweet skim-milk, labor, time and trouble, to pay for itself every six months.

The De Laval saves enough over other separators in closer skimming, in running heavier and smoother cream, skimming cool milk, greater capacity, easier cleaning, easier running and fewer repairs, to pay for itself every year.

The 1912 Improved De Laval saves enough over De Laval machines of 5, 10, 15 or 20 years ago, in closer separation under all conditions, greater capacity, easier running and greater mechanical perfection, to pay for itself every two years.

A liberal "exchange" allowance will be made for your old De Laval Separator, or any other make, towards the purchase of an up-to-date ma-

chine. If you are using an old style De Laval or any other separator it will pay you to investigate the great improvements in our latest style machines, including automatic oiling.



De Laval Separators are not only superior to all others but are at the same time cheapest in proportion to actual capacity, while they are so much better made that they last from two to ten times longer.

More than a million and a quarter cow owners the world over have found the De Laval Cream Separator to be the best investment they ever made and 98 per cent. of the World's creameries use the De Laval exclusively.

De Laval Cream Separators are made in all sizes and capacities from a 135-lb. an hour machine that sells for \$35. to a 1350-lb. an hour machine that sells for \$160.

All farm and dairy sizes are made to run by hand, or can be furnished with attachments for operation by gasoline engine or any other kind of power.

We have agents in almost every locality who will be glad to set up a machine for you and give you a free trial, and we have an arrangement with our agents whereby the purchaser, if he desires, may make a partial payment at time of purchase and pay the balance on such easy terms that it will pay for itself out of its own savings.

If you don't know a De Laval agent write to our nearest office for his name and a catalog, which we will gladly send you.

**DE LAVAL DAIRY SUPPLY CO., LIMITED**  
173 WILLIAM ST., MONTREAL 14 PRINCESS ST., WINNIPEG

# Before you buy a Cream Separator See and try a DE LAVAL



**HORTICULTURE**

**Spraying in Ontario County**

*Elmer Lick, Ontario Co., Ont.*

Spraying has been proved to be an absolute necessity if we are to produce good fruit, and lime-sulphur is the most convenient and effective method of combating fungous diseases and insect pests. In this district the majority of farmers and fruit growers are using commercial brands of lime-sulphur. For the dormant spray, we use one of the mixture to 10 of water; no injury will be done to a tree by a solution of this strength until after the leaves are about a half inch long, although it is more effective in combating the blister mite, if applied just as the buds are beginning to burst.

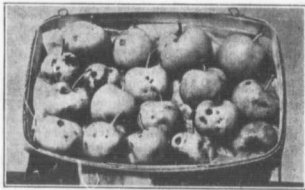
I do not think that in this district we can do without a second spray, as the strong dormant spray could not in average seasons be applied later than May first, while the second spray for blight should come on about May 10 or 15. I use this strength of one of lime-sulphur to 35 of water, and mix two to two and one-half pounds of arsenate of lead to the 40 gallon barrel. This prevents early infection of the seal fungus and poisons any leaf eating insects which may be hatching out.

**THE IMPORTANT SPRAYING**

The third spray should be of the same strength and applied just as the blossoms are falling. Plenty of power should be used and the spray driven well into the calyx of the flower. I am satisfied that three sprayings a year for three years will entirely control the oyster shell bark lice, however, they are very numerous, the

quickest method is to apply a spray of the dilute lime-sulphur, one to 30 or 35 of water, just when the little insects are hatching out, which is usually about this first of June. Lime-sulphur at this strength is sure death to the young oyster shell bark lice.

In some cases, a fourth spray about two weeks after the blossoms fall, is advisable in preventing infection of scab, but in the majority of cases the

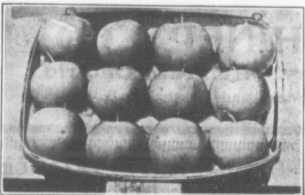


No. 1. Fruit Not Sprayed

three mentioned sprays are found to be sufficient.

**Pruning Old Apple Trees**

*"Orchardist," Ontario Co., Ont.*  
Pruning is one of the most important operations in the orchard in the spring. March is usually the month in which most of this work is done,



No. 2. Fruit Sprayed With Commercial Lime Sulphur

—Ours courtesy Niagara Brand Spray Company.

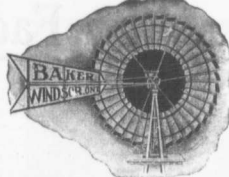
chiefly for the reason that the orchardist has more time at his disposal at that season, but where this has not been attended to earlier the old adage applies here, 'Better late than never,' and this work can be continued through to June with no injury to the trees, but, on the contrary, with great improvement to the fruit.

In this district there is very much more interest exhibited in pruning than ever before. Many of the old orchards have been allowed to grow too high. These have been cut back in order that suckers may grow out from the main limbs and be trained into new bearing wood. Prune to get the head as large as the distance between the trees, but no larger, and then by annual heading in, keep them down to this size. Clean out the top and outside and keep the centre full of bearing wood. In dehorning large trees do not take out more than one-quarter of the top in any one year, otherwise the balance between the roots and the branches may be destroyed. Paint all cuts with the white lead and linseed oil, using no turpentine.

Hundreds of trees set every year die because of the neglect of the owners. It is not always the fault of the nurserymen.

A large orchard poorly planted and poorly tended will not produce as good results as fewer trees well cultivated.

**RELIABILITY** A feature you can count on when you buy a "BAKER" WIND ENGINE



Baker mills have no freak features to exploit. The man who buys this mill makes a good investment. It does not take a chance. The quality, efficiency and reliability of the "BAKER" are known quantities. In keeping with our past record of over 30 years. We invite honest comparison in every way. The wheel is built on a hubrevolved on a long stationary steel spindle. As a result less friction. It has a large number of small sails without rivets. The small sails develop the full power of the wind. The engine is so constructed that the gears cannot wear out of mesh, and is provided with a ball-bearing turntable and self-regulating device. All working parts covered with a steel tower, galvanized same from rust and sleet. We make a full line of cast iron shafts, thrust protecting same from rust and sleet. Write for catalogue.

**THE HELLER-ALLER CO. Windsor, Ontario**

**You can plant Potatoes as easily as you rake Hay — with This Machine.**



It saves you all the back-breaking labor — the weary stooping — and the tiresome enables you to plant from 4 to 5 acres of Potatoes a day.

days of work. This machine — which is as easy to operate as a horse rake — enables you to plant from 4 to 5 acres of Potatoes a day.

**"O.K." Canadian Potato Planter**

opens the trench, drops the seed, covers with mulch soil, and marks for the next row — all you ride on the machine and drive the horses.

Not much work in this, is there? And there's money in Potatoes. The average price last year was 60c a bushel — and in February this year, Potatoes sold for \$1.60 a bag in carload lots.

Get an "O.K. Canadian" Planter this year and plant more Potatoes.

**"O.K. Canadian Potato Cut"**

enables you to cut from 5 to 7 bu. six of potatoes an hour in six hand-time — doesn't it?

Write for descriptive catalog

We also make Cattle Stanchions, Sanitary Stalls and Water Boats.

**CANADIAN POTATO MACHINERY CO. LIMITED, GALT, ONT.**

**"O.K. Canadian" Sprayer**

enables you to spray four rows of Potato Plants at once.

Another time saver.

and book "Money in Potatoes".

**"WAKE UP"**

**FOR SALE**  
**N. B. Seed Potatoes**  
All Varieties

**"WE NEED"**

**50 Cars Carrots, Parsnips, Potatoes**  
Beets, Turnips, Cabbages  
**PORTER, MANZER, LIMITED**  
88 Colborne St., TORONTO

**Well DRILLING MACHINES**

Over 70 sizes and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse power. Strong, simple and durable. Any machinist can operate them easily. Send for catalog. **WILLIAMS BROS., ITRACA, N.Y.**

**Extra Money**

You can earn money in leisure hours, or when you go to the blacksmith shop, to the mill, to the cheese factory or creamery, by speaking to your friends and neighbors about Farm and getting them to subscribe. We pay a liberal cash commission for every new subscriber you get for us. I'll pay you to get busy on this proposition first time you are out **THE BURNETT PUBLISHING CO., Peterboro, Ont.**

**CANADIAN PACIFIC RAILWAY**

**HOMESEEKERS' EXCURSIONS**

APRIL 2, 16 and 30 and every second Tuesday until SEPT. 17 inclusive  
**WINNIPEG & RETURN, \$34.00**  
**EDMONTON & RETURN, \$42.00**  
Proportionate Rates to other points. Return limit 30 days.  
**THROUGH TOURIST SLEEPING CARS** to Edmonton via Saskatoon, also Winnipeg and Calgary via Main Line  
Ask nearest C. P. R. Agent for Home-seekers' Pamphlet

Low Colonist Rates to Pacific Coast. Full particulars from any C. P. R. Agent.

**EASTER SINGLE FARE**

Between all stations in Canada  
Port Arthur and East  
GOOD GOING  
APRIL 4, 5, 6, 7, 8  
Return Limit, April 10  
(Minimum Rate of 35c)

**SETTLERS TRAINS TO WESTERN CANADA**

Will Leave TORONTO  
10.20 p. m. EACH TUESDAY  
DAILY TO WEGON AND APRIL  
**W. H. McLEOD, Agent - PETERBORO**

**New Idea Manure Spreader Never Clogs**

Don't be pestered and made out of sorts by having a spreader that clogs. You don't have to. Get one that spreads wider, even, carries a bigger load and has a score of other advantages—the New Idea.

Send for Book and Special Circulars telling all about the 24 points of superiority and an account of the great spreader contest on the Hartman farm, where the New Idea put other spreaders on the scrap heap. Don't think of buying until you know about the New Idea that is always ready to give a test of its merits.



Write today and get the facts.

**New Idea Spreader Co.**

126 Symacore St., Caldwell, Idaho

# Some Durability Facts For You

On account of the remarkable records for close-skimming that the "STANDARD" Cream Separator has established, it has become known as "The World's Greatest Separator." While we are proud of the "STANDARD's" reputation for close-skimming, still we do not want you to lose sight of its other great features, such as:

The Enclosed Dust-Proof Gearing—The Self-Oiling System—The Low Supply Can—The Cone-Balanced Bowl—The Liberal Space Between Disc Edges and Bowl for Holding Accumulation of Impurities—The Materials used in Construction of the Machine.



The Materials used in the construction of a separator are very important. We could skip, and build the "STANDARD" of cheaper materials. You would not likely know the difference. It would skim well, too, but it wouldn't last nearly so long.

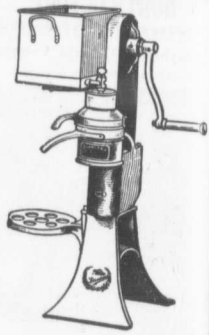
There is no separator in the world made from finer materials than the "STANDARD." Every

single part of it is made of the materials best suited for the purpose. For instance, the gear spindles are made from a special grade of tool steel, ground and polished—a steel so hard and wear-resistant that tools are made from it for drilling through ordinary steel. This special tool steel costs five times as much as steel in ordinary separators, but ten ordinary steel spindles wear out before one "STANDARD" spindle.

The "STANDARD'S" Discs are made of steel, heavily and smoothly tinned. Stand on one and test its strength in comparison with aluminum or tinned iron discs. The Bowl Bottom is made from special steel forging. If the bowl falls on the floor it won't bend or break.

The gears are machine cut. They are tested for accuracy on a special machine that can be adjusted to 1-10,000 of an inch.

But why go further? You've learned enough to know that the "STANDARD" is built to last long. And it has been given a test equal to skim-



ming 100 pounds of milk every day for six years. At the finish there was no wear visible on the working parts. It was easily good for 20 years more. The test is fully described in our booklet. Write for a copy to-day.

See what an editor of Farm and Dairy has to say about the Standard on page 37. Seeing is believing.

## THE RENFREW MACHINERY CO., Limited

Head Office and Factory: Renfrew, Ontario  
Sales Offices: Winnipeg, Man. and Sussex, N. B.

### PIGS PIGS

Again we announce our popular offer of a pure bred pig, eligible for registration, which we will give you free as a premium in return for 9 new subscriptions to FARM AND DAIRY, each to be taken at only \$1.00 a year.

You may have choice of either sex, Tanworth, Berkshire or Yorkshire. We have been sending out hundreds of pure bred pigs, you one, a ready-made, for the little time it will take you to get those new subscribers. Write us tonight about the kind of pigs you want and get busy and secure your friends and neighbors as new subscribers.

PIGS FARM AND DAIRY, Peterboro, Ont. PIGS

### OF USE EVERY DAY

Is this favorite  
**WESTERN STOCK KNIFE**



#### This Busy Farmer's Friend

Known as the Western Stock Knife, is especially made and designed for the use of cattlemen and farmers.

It is strongly and perfectly made. It is light to carry in your pocket. Has two extra fine steel blades and a special contrasting blade, brass lining and bolster ends. Choice of buff or stag handles.

This splendid knife, which you will find to be such a constant friend, and which will fill a long felt need, we will send you free and post paid in return for only one New Yearly Subscription to this your favourite farm paper, subscription to be new to us and taken at only \$1.00 a year.

See a friend or neighbour first time you have the opportunity. Ask him to take Farm and Dairy for a year. Send us his subscription and we'll send you this useful knife.

FARM AND DAIRY, Peterboro, Ont.

### BARTLETT'S "FARMER BRAND" FANCY CHOICE COTTON SEED MEAL

Has no equal as a Milk or Flesh Producer

It's the cheapest source of Protein known to Feeding Science, which is available as a cattle feed. Therefore, it is the most economical feed on earth for milk or flesh producer.

#### MILK AND MEAT

can be produced only by Protein. No other food constituent can produce either milk or meat. Without a certain amount of Protein in the feed, the cow could not live; without the amount of it in the food necessary to balance the ration properly, she cannot produce a maximum flow of milk. That is why in a great many cases

#### "FARMER BRAND" DOUBLES THE MILK

All feeds contain some Protein, but most of them contain too little. Their ordinary home-grown feeds lack Protein and will not produce a milk. In order to get the "largest amount of milk for the least money."

#### BEWARE OF CHEAP MEALS

Be sure you get the genuine "Farmer Brand" Cotton Seed Meal, with a yellow tag bearing our name and the guaranteed analysis:

Protein	41 to 48 per cent.
Fat or Oil	7 to 15 per cent.
Crude Fibre	4 to 10 per cent.
Chemp meals analyzing only 25 per cent to 35 per cent, or sometimes 30 per cent, are being put on the market at \$25.00 to \$30.00 per ton. A little test is cheaper in "Farmer Brand" than in any of those substitutes, and at the same time you are getting	

#### A STRICTLY PURE, HARMLESS FEED

at a cost of but a dollar or two per ton more. "Farmer Brand" is guaranteed as represented or your money back.

#### OF COURSE YOU WANT TO TRY IT

We have therefore made arrangements to supply you from shipping stations in Ontario, and save long freight hauls and customs delays. We will ship any amount from 1 bag up at the following prices:

1 ton or more	\$35.00 per ton.	F. O. B. Kingston, Peterboro or Toronto
500-lb. lot	16.50	17.50
250-lb. lot	9.00	9.00
Smaller lot	2.00 per cent.	

Send check for trial order to-day. Shipment—Immediately on receipt of order.

**THE BARTLETT COMPANY** Dept. H. 408-910 Hammond Bldg. DETROIT - MICHIGAN  
Local Representative - G. A. GILL ESPIE, PETERBORO, ONT.

### Condition Dairy

"There is in better cow bell, Lanark. With go will expect of ten p Frontonea." "The sup stock is in the number about the Frontonea Co. "There is there will be ber of cows Addington Co. "Food is



Note the Zealand is m it behoves our roundings district."—D Co.

"There will last year. C condition, cheese"—W ward Co. "There will cows and the though cov —S. A. Van "Condition year."—I. D Co.

"Condition with other yo be a little be "The suppl orably with ber of cows Arthun, Onta There will and in as p looking for in chesse."— Co. "Stock is as good as scarcity of f see Co.

### Land or S

(Conti those foods t entified if th su. INCR Retain all business to i in more heifer. In no case liey to bank four per cent develop in th a pure bred th stock a 100-a Given a you lots of enthug stock firm buy the farm ince this lool

**Conditions Indicate an Increased Dairy Production in 1912**

(Continued from page 2)  
 "There is ample food and stock is in better condition. Also there will be more cows milked."—P. M. Campbell, Lanark Co.  
 "With good crops last season we will expect an increased cheese make of ten per cent."—Frank Anglin, Frontenac Co.

**LOTS OF FEED.**

"The supply of feed is plentiful, stock is in first-class condition and the number of cows milked will be about the same."—S. F. Ferguson, Frontenac Co.  
 "There is a fair supply of feed, and there will be an increase in the number of cows."—G. H. Richardson, Addington Co.  
 "Food is fairly plentiful in this

of years in the possession of the good farm, well-stocked with all modern improvements.

**A Bigger, Better Crop of Corn**  
 (Continued from page 4)

On loamy or sandy soil, however, we believe in spring plowing. Corn is by nature, a tropical plant, and a good warm bottom gives it a strong start. We spread manure on the corn field directly from the stable through the winter and up till about the middle of May when the whole is plowed under. The fermentation of the manure and the grass sod gives the young plant that much more heat to start it off. After the ground is plowed we harrow, roll, double disc twice, then harrow two or three times and roll again just before seeding. The varieties that we prefer are



**Milking Shed in Far away New Zealand**

Note the cement floor in both shed and barnyard. Also their cleanliness. New Zealand is making a reputation in the Old Land for high class dairy produce, and it behooves our Canadian dairy farmers to produce milk in clean, sanitary surroundings if we would successfully compete with them.

district."—D. H. Morrison, Hastings Co.

**MORE COWS THIS YEAR.**

"There will be more milk cows than last year. Cattle generally are in fine condition. We hope to make more cheese."—W. R. Leavens, Prince Edward Co.  
 "There will be an increase of 50 cows and the make will increase, although cows are in poor condition."—S. A. Vandorf, Prince Edward Co.  
 "Conditions about the same as last year."—I. Duman, Northumberland Co.

"Conditions compare favorably with other years and production may be a little better."—Haliburton Co.

"The supply of feed compares favorably with previous years. The number of cows are about the same."—W. Arthur, Ontario Co.

"There will be fully as many cows and in as good condition. We are looking for a five per cent. increase in cheese."—Chas. Jenkins, Oxford Co.

"Stock is in fair condition but not as good as in previous years, due to scarcity of feed."—J. H. Maditt, Essex Co.

**Land or Stock, Which First?**

(Continued from page 7)

those foods to which your cattle are entitled if they may do their best for you.

**INCREASE THE HERD**

Retain all heifer calves. It is good business to invest surplus from sales in more heifer calves.  
 In no case do I consider it good policy to bank your money at three or four per cent when you are aiming to develop in the shortest possible time a pure bred herd of sufficient size to stock a 100-acre farm.

Given a young man with brains and lots of enthusiasm he can by gathering stock first, then use the same to buy the farm. From my little experience this looks to me like a short cut

**Economize on the Milk**



**Raise Healthy Calves Like These  
 RAISE THEM WITHOUT MILK**

You can do it with

**CALFINE**

"The Stockman's Friend"

(Made in Canada)

Now that milk is so high in price and sells so readily, it will be wise to feed Calfine and sell the milk.

Calfine has been most successfully used at Macdonald College and has given excellent results wherever it has been tried. It is now in use in some of the largest and best equipped dairy farms in Canada.

It will pay you to try Calfine. Ask your dealer for a 100-lb. bag of Calfine as a trial. You will soon be back for more. If your dealer does not handle it write us direct.

**NOTICE:**

If you would like to try Calfine, and cannot secure it from your dealer, send us a money order for \$2.75 and we will ship you 10 lbs. as a trial and pay the freight on same to any station in Ontario south and east of Sudbury.

Compare this price with that asked for other calf meals. (Surely ours is worth a trial).

Feeding instructions will be sent each reader of this paper who applies to us for them. Write us today and learn how to raise your calves at much less expense than it has been costing you in the past.

Remember Calfine is made in Canada. You pay no fancy price for it like you do for calf meals of foreign manufacture. There is no duty to pay when you buy Calfine.

**BUY CALFINE** and try it on those new-born calves of yours. It will pay you big to use Calfine for them.

DO IT NOW

**Canadian Cereal & Milling Co., Ltd.**  
 TORONTO, CANADA

**The Oil You Need!  
 For Your Separator**



**STANDARD  
 Hand Separator Oil**

**Never Gums, Never Rusts, Never Corrodes**

Standard Hand Separator Oil feeds freely into the closest bearings and gives the best possible lubrication.

It makes your separator last longer and do better work as long as it lasts.

One gallon can all dealers, or write to

**The Imperial Oil Co. Limited**



### Seed Corn

We have 4,000 bushels of Kent Corn, leading varieties grown in Kent County, and cured in our own cribs, which we will sell in small quantities - on the cob or shelled.

Best varieties ..... \$1.40 per bushel  
Flint ..... \$1.75  
Special prices on orders of 10 bushels or more.

Terms cash with the order.  
MONEY REFUNDED IF NOT SATISFIED

**M. W. SHAW & CO.**  
Jeannette's Creek, Ont.

### Imp. Clydesdale Stallion

ALSO  
**Clydesdale Colt  
FOR SALE**

These are  
Scottish Ring  
(1872) (1878) (Imp.) a  
grand big horse,  
stands about 15 hands,  
high and has got the best legs and feet that  
can be found. He is a new stock getter and  
leaves first class stock.  
Scottish's Scourer, also a colt, winner  
of five first prizes, includes five Fetters  
of five first prizes in the Imported class.  
Write at once and arrange to come and  
see them.

**GEORGE MILLER,**  
Hillcrest Farm Blackheath F. O., Ontario

### We Manufacture Stock Feeds

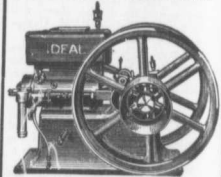
#### Calf Meal Dairy and Hog Feeds

Samples and prices mailed at your request.  
It'll pay you to write us to-day.

**The Lawrence Milling Co.**  
89 George St., OTTAWA, ONT.

### GASOLINE ENGINES

1 1/2 to 80 H. P.  
Stationary Mounted and Tractor



### WINDMILLS

Grain Grinders, Water Hoists, Steel  
Saw Frames, Pump Trucks, Etc.

**COULD, SHAPLEY & MUIR CO., LTD.**  
Brantford Winnipeg Calgary

### Seed Oats

Just received, some of the finest  
OATS we have ever handled in  
years. They test 44 lbs. to the  
bushel, and were grown in the  
great Middlethian District, Scot-  
land. Any Scot would be proud  
of them.

ASK FOR SAMPLES  
**REGENERATED ABUNDANCE  
REGENERATED BANNER**

Both lots are splendid samples.  
We offer them while they last in 5  
bushel lots or over at \$1.50 per  
bush., bags free. Less than 5 bush-  
el lots at \$1.50 per bush., bags  
free. Below find list of our Ontario  
Grown Oats:

Daubeny, test 36 lbs. at 1.25.  
Aberdeen, test 36 lbs. at 85c; Eil-  
rian, test 37 1/2 lbs. at 85c; Bumper King,  
test 37 1/2 lbs. at 90c; White Cloutier, test  
37 lbs. at 85c; Lincoln, test 40 1/2 lbs.  
at 85c. We also offer good, clean Banner  
Oats that test 39 lbs. to the bushel but  
contain a sprinkling of barley at the  
per bushel.

### Barley

BAGS FREE

O.A.C. No. 21, our best lot, test 49 1/2  
lbs. at 1.15. O.A.C. No. 21, good sample,  
test 48 lbs. at 1.20.

### Clover and Timothy

Herewith find prices good for one  
week from date of issue of this paper.  
If you will pay in Ontario and order 100  
lbs. or more of our Clovers and Tim-  
othy, we will pay the freight to your  
nearest station, otherwise, our prices  
are ex-warehouse, Toronto. Cotton  
bags for Clover and Timothy at 25c.  
Red Clover ..... Gov't Stn. Price per bus-  
hels. No. 1 ..... \$15.50  
Moon brand " 2 ..... 14.50  
Comet brand " 3 ..... 13.75

Alfalfa		
Clover		
Gold	" 1	15.00
Silver	" 2	12.00
Alfalfa, Ocean	" 1	14.00
" Sea	" 2	13.50
" Lake	" 3	15.00
Timothy, Diamond	" 1	15.00
" Crescent	" 2	8.50
" Circle	" 3	8.00

### Fertilizers

Order along with your seeds:

Muriate of Potash	.....	\$40.00 per ton
Sulphate	.....	80.00 "
Acid Phosphate	.....	80.00 "
" Lake	.....	15.00 "
Nitrate of Soda	.....	37.00 "

Our catalogue tells you how to mix  
for the different crops.

SEND FOR CATALOGUE

**Geo. Keith & Sons**  
SEED MERCHANTS SINCE 1866  
124 King St. East Toronto

## THE SARNIA FENCE CO. SARNIA, ONT.

Direct from  
**FACTORY**  
to  
**FARMER**

## ROYAL FARM FENCING THE BEST FENCE VALUE IN CANADA

Watch the prices of **ROYAL FENCE**. If you pay more than our price you are simply presenting the agent with the difference. **AS YOU CANNOT BUY BETTER FENCE THAN ROYAL FENCE AT ANY PRICE.** The agent in order to induce you to purchase from him a fence on which he can make the most liberal guarantee offered by any fence company in Canada. Every bale of **Royal Fence** is sent out with the following guarantee:

If you find for any reason that the fence received by you is not of the best wire, full Government gauge, No. 9, the best galvanizing, the most perfectly woven fence you ever purchased at any price, you are at liberty to return it, and we will pay charges both ways, and refund every cent of your money.

This printed guarantee should settle in your mind that **THE SARNIA FENCE COMPANY** have the best fence on the market or we could not offer you such a guarantee. Ask the agent who tells you he is meeting the **SARNIA FENCE COMPANY'S** prices, what his price was before we broke up our combine; also ask him what his price would be if they could get rid of us.

Our Direct-to-the-Farmer Policy is receiving such loyal support from the farmer, that our sales for February and March of this year equal our entire shipments of last year. Two hundred carloads of **SARNIA FENCE** has been shipped since February 1st. We ship all orders the same day order is received, and we pay the freight to any railroad station south of North Bay in Old Ontario, at the following prices: All fence in 30, 30 and 40 rod bales only:

5-40 Has 5 line wires, 40 in. high, 9 stays to the rod. All No. 9 hard steel wire. Spacing 10, 10, 10, 10. Price per rod.....	17c.	9-40 Has 9 line wires, 48 in. high, 9 stays to the rod. All No. 9 hard steel wire. Spacing 3, 4, 5, 6, 6, 6, 8, 9. Price per rod.....	26c.
6-40 Has 6 line wires, 40 in. high, 9 stays to the rod. All No. 9 hard steel wire. Spacing 7, 7, 8, 8. Price per rod.....	19c.	9-40 Special; same as 9-40, with 9 stays to the rod. Spacing between line wires, 6, 6, 5, 6, 6, 6. Price per rod.....	26c.
7-40 Has 7 line wires, 40 in. high, 9 stays to the rod, all No. 9 hard steel wire. Spacing 5, 6, 6, 7, 7 1/2, 8 1/2. Price per rod.....	21c.	9-40 Same as 9-40-6, with 12 stays to the rod. Price per rod.....	29c.
8-40 Has 8 line wires, 40 in. high, 12 stays to the rod, all No. 9 hard steel wire. Spacing 3, 4, 4, 6, 7, 7, 8. Price per rod.....	25c.	10-50 10 line wires, 50 in. high, 12 stays to the rod. All No. 9 hard steel wire. Spacing 3, 3 1/2, 3 1/2, 4 1/2, 5 1/2, 6, 6, 8. Price per rod.....	31c.
7-40 Has 7 line wires, 48 in. high, 9 stays to the rod, all No. 9 hard steel wire. Spacing 5, 6, 7, 9, 10, 11. Price per rod.....	22c.	8-34 Has 8 line wires, 34 in. high, 34 stays to the rod. Top and bottom No. 9, filling No. 12 hard steel wire. Spacing 3, 3 1/2, 3 1/2, 4 1/2, 5 1/2, 6. Price per rod.....	21c.
8-40 Has 8 line wires, 48 in. high, 12 stays to the rod, all No. 9 hard steel wire. Spacing 4, 5, 6, 7, 8, 9. Price per rod.....	26c.	15-3P Stock and Poultry Fence. Has 15 line wires, 50 in. high, 24 stays to the rod; top and bottom No. 9, filling No. 12. Spacing very close for poultry. Price per rod.....	35c.

**STRETCHER** An all iron Stretcher, top and bottom draw. Very heavy chain. Extra..... \$7.50  
single wire stretcher and splice, freight paid with fence orders only.

These Special Prices include freight paid to any railroad station (steamboat and electric lines not included), south of North Bay in Old Ontario. To points in New Ontario, Quebec, Maritime Provinces and the Northwest, deduct 2c per rod. From these prices, customer to pay his own freight from Sarnia. For the benefit of customers we have never yet found a station in the Dominion of Canada where our price, with freight added, did not save our customers a good big profit for themselves. We have dozens of cases where the saving amounts to 15c per rod under local prices.

Remit Cash with your order by Registered Letter, Post Office or Express Order.

**The Sarnia Fence Company, Limited, Sarnia, Ont.**

# Dairymen

## Improve Your Dairy Herds

The precocity of the Guernsey Bull, or his ability to stamp the desirable characteristics of the breed on his offspring, makes him most valuable for improving the common dairy stock of any section.

**A Dairy of Grade Guernseys Will Give Rich, Fine-Flavored, High-Colored Milk, Cream and Butter.**

### Look at this Record

#### YEAR'S OFFICIAL RECORDS

A cow has given 18,908 lbs. milk.

A cow has given 967 lbs. butter fat.

Several cows have given over 900 lbs. butter fat.

#### 1,600 COWS' AVERAGE

5,081.16 lbs. milk  
409.55 lbs. butter fat.  
5.068% butter fat.

#### Average 3 Successive Year's Official Records.

One cow, 17,092 lbs. milk; 828 lbs. butter fat.  
Another, 13,262 lbs. milk; 967 lbs. butter fat.

#### Average 4 Successive Year's Official Records:

One cow, 10,402 lbs. milk; 642 lbs. butter fat.  
One cow, at 4 yrs. old, 11,570 lbs. milk; 572 lbs. butter fat.  
One cow, at 7 yrs. old, 18,602 lbs. milk; 967 lbs. butter fat.

Further information regarding the Grade and Pure Bred Guernseys you may have by addressing:

**The American Guernsey Cattle Club**

Box F. D. Peterboro, N.H., U.S.A.

## Another 12th Hour Rush

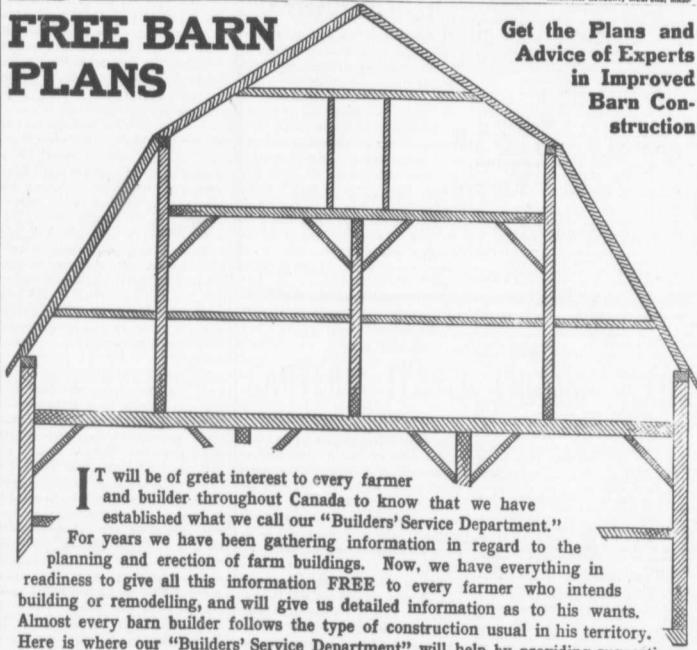
again filled our columns altogether too heavy with advertising. Much of the Special Dairy information intended for this great Dairy Annual will be published in Farm and Dairy next week. Advertisers will kindly get copy in early in future, so we may have time to enlarge the paper and accommodate all comfortably.

**20 PACKAGED FLOWER SEEDS 10¢**

10 kinds Aster, 10 Pansy, 10 Pink, Sweet Pea, Marigold, 10 Carnation, 10 Poppy, 10 Eschschol, 8 Sweet-will, 10 Stock, 8 Anemone, 10 Verbena, Forget-me-not, 20 Fuchsia, 12 Marigold, Four Crown, 10 Petunia, Sweet Alyssum, 10 Nasturtium, Sweet Elizabeth, 10 Calliopsis. All guaranteed. The lowest price in the market.

**AMERICAN NURSERY, MEDFORD, MASS.**

# FREE BARN PLANS



**Get the Plans and Advice of Experts in Improved Barn Construction**

**I**T will be of great interest to every farmer and builder throughout Canada to know that we have established what we call our "Builders' Service Department." For years we have been gathering information in regard to the planning and erection of farm buildings. Now, we have everything in readiness to give all this information FREE to every farmer who intends building or remodeling, and will give us detailed information as to his wants. Almost every barn builder follows the type of construction usual in his territory. Here is where our "Builders' Service Department" will help by providing suggestions and information obtained from all parts of Canada. "The Builders' Service Department" will co-operate with the barn builder to give you the ideal building.

### Our Board of Advisers

We have a Board of Advisers, consisting of ten of the best barn builders and contractors in the country. These men have given years and years to the planning and erection of farm buildings. You can have all the information from these men FREE of all cost if you will make known your wants. You wonder why we do all this FREE? It is for this reason: We feel that with this

### Builders' Service Dept.

we can help the farmer and builder to erect Ideal Farm Buildings. As the farmer builds he will want to build better and safer, so that his stock and grain and implements, etc., are absolutely safe from lightning, wind, rain and fire. Mail the coupon. Get the help of our "Builders' Service Dept." Remember this: Whether you buy from us or not we will give you the co-operation of our "Builders' Service Dept." free.

Address envelope to  
**Edolph**  
MANAGER

## Metal Shingle & Siding Co., Limited, Preston, Ont.

CUT ALONG HERE Branch Office and Factory, Montreal, Que. MAIL IT TO-DAY

Send me Portfolio of Barn Plans, showing framework construction and plans of interior. I intend building a barn \_\_\_\_\_ ft. by \_\_\_\_\_ ft.

Are you interested in all steel buildings? (Yes or No) \_\_\_\_\_

Do you want roofing or siding for an old building? (Yes or No) \_\_\_\_\_

Name \_\_\_\_\_ P.O. Address \_\_\_\_\_

County \_\_\_\_\_ Province \_\_\_\_\_ Publication Farm and Dairy

# FARM AND DAIRY

## AND RURAL HOME

Published by The Rural Publishing Company, Limited.

1. **FARM AND DAIRY** is published every Thursday. It is the official organ of the British Columbia Dairy, Farm and Western Ontario, and Bedford Districts, Dairywomen's Associations, and of the Canadian Holstein, Jersey and Jersey Cattle Breeders' Associations.

2. **SUBSCRIPTION PRICE**, \$1.00 a year, in advance. Great advantages for a year. For all countries, except Canada and Great Britain, add 50c for postage. A year's subscription free for a club of two new subscribers.

3. **REMITTANCES** should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at the banks.

4. **CHANGE OF ADDRESS**—When a change of address is ordered, both the old and new addresses must be given.

5. **ADVERTISING RATES** quoted on application. Copy received up to the Friday preceding the following Monday.

6. **WE INVITE FARMERS** to write upon any agricultural topic. We are always pleased to receive practical articles.

**CIRCULATION STATEMENT**  
The paid subscribers to Farm and Dairy exceed 15,000. The actual circulation of each issue, including copies of paper sent subscribers who are not strictly in arrears, and sample copies, varies from 15,000 to 20,000. No subscription rates are accepted less than the above subscription rates.

Severe disclaimers of the circulation of the paper, showing its distribution by counties and provinces, will be mailed free on request.

**OUR REFUSAL POLICY**  
We want the readers of Farm and Dairy to feel that they can deal with our advertisers' reliability. We try to admit to our columns only the most reliable advertisers. Should any subscriber have cause to be dissatisfied with the treatment we will investigate the circumstances fully. Should we find cause to believe that any of our advertisers are unreliable, even in the slightest degree, we will discontinue immediately the publication of their advertisements. Should the circumstances warrant, we will expose them through the columns of the paper. Thus our reputable advertisers as well as our readers will be entitled to the benefits of our Protective Policy. Our advertisements include in all letters our advertisement in Farm and Dairy. Complaints must be made to the date of any unsatisfactory transaction, with proofs thereof, and within one month from the date that the advertisement appears, in order to take advantage of the guarantee. We do not undertake to admit trifling differences between readers and responsible advertisers.

## FARM AND DAIRY

### PETERBORO, ONT.

#### WHY DAIRYING PROGRESSES?

Why is it that while almost all branches of live stock farming in Canada are either standing still or going back dairying is on the increase? Official figures show that in the last ten years the number of milk cows in Canada has increased almost one-third. In the same time the number of beef cattle in the country has stood still, hogs have only held their own, and sheep have actually declined.

We are forced to the conclusion that the animal that will win out is the one that will supply human food most cheaply. The fact that a dairy cow giving ten quarts of milk a day will produce six times as much mineral, six times as much protein or flesh forming food, and just as much fat as a beef steer gaining seven pounds a week, explains why the dairy cow progresses under conditions that check the beef industry. So serious has been this check to beef production that indications at present point to

a great shortage of beef in Canada, and a consequent increase in price. This increased price will make fat stock farming more profitable than it has been in the past few years. But the fact that the dairy cow is the most economical producer of human food makes it certain that dairying is the branch of farming that must inevitably make the greatest advances.

We dairymen can increase the size of our herds and extend our industry with every assurance that for our products there is a great and ever-growing market. Consumers in our towns and cities are coming to realize that a dollar spent on dairy products is better invested than a dollar spent on beef stock. It is this simple economic fact that explains the great advance in dairying. And it is this fact that will cause dairying to increase to even a greater extent in the future. We dairy farmers are partners in a great and growing industry. Let us make the best of it by breeding better cows, giving these cows the best of care, and so swell our bank account and the heap of satisfaction we will then derive from our work.

#### HIGHWAY EXPENDITURE

Farm and Dairy believes, as stated in our issue of March 28th, that expenditures on such provincial public works as our highways, should be met by provincial funds. It is now decided definitely, however, that a part of the Dominion revenue will be devoted to highway improvement. The only question that now remains to be settled is how can our government expend that revenue to the best advantage. This is a question in which we farmers are more vitally interested than any other class in the community. We use the highways more and in the end must pay the greater part of the bill.

The Dominion Government proposes to keep the expenditure of this revenue for highway improvements under its own jurisdiction. One would think that the Government at Ottawa had plenty to do if they confine their attention to purely federal questions. Highways properly come under provincial control. In each province there is a department of public works who have under their supervision the maintenance and control of the highways within the province. Federal effort along the same line would mean over-lapping of effort and hence not the greatest results for the expenditure entailed. The provincial department also having only the needs of one province to suit is in the best position to direct expenditure in the most effectual manner.

If federal revenues are to be expended on highway improvements, the best system would be to give the monies directly over to the provincial departments for expenditure, the amount to be given to each province basis. This plan would lead to more efficient expenditure both from the standpoint of work accomplished and satisfaction to the people.

#### PAY A GOOD PRICE

We dairymen have been altogether too parsimonious in our dealings with the breeders who supply us with pure bred sires. We recognize that we cannot longer use the grade sire and obtain favorable results; neither are we willing to pay the price that will secure for us a desirable herd header and make the deal profitable for the breeder as well as ourselves. Too many of us are trying to get a pedigree cheap.

An editor of Farm and Dairy was recently permitted to read several letters that had been received by a breeder of pure bred dairy cattle from dairy farmers who were looking for sires—so improve their grade herds. In one case the farmer writing expected to get a first-class bull calf ready for service for fifteen dollars. This inquirer expressed the information that he could get lots of calves that age for ten dollars in his own neighbourhood, but would pay a little more for a pedigreed animal. Several other inquiries were of a similar nature.

We should understand that if we must pay more for a pure bred animal it is because it costs the breeder more to produce it. His foundation stock represents a large investment and a large risk. Just so long as we dairymen who have grade herds are unwilling to pay a good price for good stock, just so long will the best stock be very expensive. When we become more liberal in our purchases good stock will be disseminated over the country, and the greater volume of trade will ultimately force prices down and still leave to the breeder as good a profit as he now makes. But even at present prices the high-class individual backed by high producing pedigree is the cheapest in the end and the only kind we can afford to use in our herds.

Professor Warren, of Cornell University is authority for the statement that the farmer loses ten cents on every pound of butter

that he makes at home if he considers cost of labor and the decreased quality of the product. This statement made by an eminent dairy authority after much investigation on his part should give those of us who have been making our cream into butter on the farm in preference to sending it to the creamery something to think about. The introduction of creamery butter making in every country where cooperative dairying is now practised has resulted in improved quality and higher prices for the product. This is but natural. Fifty farmers making their butter at home will make fifty different kinds of butter. If made up at the creamery, a uniform quality is produced for which the dealer will pay a premium. We dairymen have too much to do in producing the feed and looking after the cows that make the cream to take off half a day or more a week to make the butter. Inside help is just as difficult to get as is labor for the farm. If we consult our

own best interests we will patronize the creamery in preference to making the butter at home.

With feed very scarce in many sections there will be a great temptation for many of us dairymen to turn our cows to pasture too early.

**Don't Pasture early for the good of the cows or the pasture.**

The first grass produced on the pasture is almost all water and of very little feeding value, and unless supplemented with other feed, cows on such pasture are sure to lose in milk flow. Early pasturing is also certain to have a very detrimental effect on the value of the pasture through the whole succeeding season. Even if we have to buy feed it would be advisable to keep the cows off the pasture until the growth is well established. We would be unwise to sacrifice great results for a little present gain.

Those who have charge of dairy instruction work in Ontario are always much hampered in formulating a

**Dairy Census**  
progressive and effective policy due to lack of concise dairy information. We have no reliable statistics to show in just what condition dairying is, either in the whole province or in different sections of the province. A dairy census covering information as to the number of cows, methods of feeding, and dairy possibilities of each township and county would be of immense value to the dairy officials in connection with the Provincial Department of Agriculture. We already have concise information as to forest lands, water powers, and so forth. Why not a dairy survey of the province? And of each of the other provinces, too.

Mr. G. G. Publow and Mr. Frank Horns, the two Chief Dairy Inspectors in Ontario, have both suggested that small models of

**Models to Demonstrate**  
milk and cream cooling outfits such as should be found on every dairy farm be supplied by the Department of Agriculture and circulated around among the cheese makers and creamery men. The makers have been "talking" cooling for years, but with such a device as this at hand they would be able to "show" their patrons in a definite way just what they would need to do and how to do it in installing the necessary apparatus to produce the best kind of milk. Mr. Publow suggests that if one cooling outfit were supplied to each district representative, the representative could move it from one farm to another. This suggestion if put into operation would do much good and the expense would not be appreciable in comparison with the benefits resulting.

Music and entertainment are a part of every young person's life, and if the farmer does not furnish these at home, the children will look elsewhere for them.

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**The Cheese Outlook for 1912**

Arthur C. Rowson, Rowson, Hudson & Co., Ltd., London, E. C.  
After the record high prices paid to Canadian farmers for their cheese during 1911, there is a naturally more benign view of the prospects for the coming season. There is not the slightest room for doubt that the highest prices paid last season were on account of the shortage of English cheese owing to one of the most remarkable droughts ever experienced in our country. It is not generally realized that England manufactures as much cheese as she imports, and consequently dry weather at home has quite as much effect on the market price of cheese in Canada as if the dry weather was being experienced over there.

**XXIII**

A wonderful change is coming over the press of this country. It is coming slowly. But it is coming surely.

Money—piles of it—is in the way, or the change would come at once!

This change is IN REGARD TO THE CHARACTER OF THE ADVERTISEMENTS a publisher will permit in his columns.

Suppose you were a high-grade photographer, a piano manufacturer, or a maker of confections, would you care to have your advertisement next some cure (?) for Piles?

No matter what you are advertising, would you care to have your advertisement alongside of some nasty patent medicine ad. that you, in your superior wisdom, would not allow to be used in your family?

Do you suppose that your advertisement would bring the same results placed alongside of, or in the same paper with, an ad. you and other intelligent persons know to be false?

Or some advertisement, which you know you blush for very shame, did you notice your wife or your daughter reading them?

Such advertisements have been all too common, and are still too common, in most papers in this country.

The tendency is towards a right-about-face in these matters.

We believe that in two years time even our leading big dailies will have decided to do away with the very objectionable practice of allowing this class of advertising to use their columns.

It is estimated that one Toronto daily alone carries \$40,000 ANNUALLY of this "unclean" business.

It may be hard for them to turn away from this, but it appears that legitimate advertisers will rise up in their might and force all publishers now carrying such business to "clean house."

Farm and Dairy since it started, has always refused absolutely to accept any of this questionable business. This policy has cost us 4 p. m. in immediate revenue.

BUT WE'RE HAPPY in the faith that we're in the right, and we know this policy has had much to do with THE SPLENDID RESULTS OUR ADVERTISERS GET. And then because of this, along with OUR INTENSELY PRACTICAL FARMER - TO - FARMER EDITORIAL POLICY, Farm and Dairy is—  
"A Paper Farmers Swear By"

count of the shortage of English cheese owing to one of the most remarkable droughts ever experienced in our country. It is not generally realized that England manufactures as much cheese as she imports, and consequently dry weather at home has quite as much effect on the market price of cheese in Canada as if the dry weather was being experienced over there.

The outlook for 1912 is not only a weather proposition, but the success of cheese of all descriptions on hand in England at the opening of the Canadian season will have a very important bearing on the course of prices. The hot weather, which so curtailed production, had the effect of stimulating the consumptive demand, and this had kept up unusually well all through the winter months. Higher wages through the country generally have enabled the working classes to pay the advanced prices.

Arrivals of New Zealand cheese have cleared regularly almost as soon as landed, and there is no doubt that by May list stocks of cheese of every description in Great Britain will be the lightest ever experienced. It is natural to expect some fall in prices as soon as the Canadian new make is first offered, but all the early grade make will be wanted, and anything like a general run down in prices is improbable till later in the season.

**An English Importer's View**

Gardner, Thomas and Co., Bristol.  
The general quality, both of cheese and butter received by us in 1911 was good, considering the weather conditions that prevailed during the greater part of the season. It would be easy to mention a number of faults, but we are bound to consider that the abnormal heat was responsible for most of them.

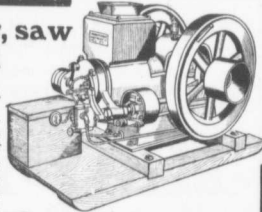
The cheese was up to the average of past years, but the shrinkage in weight was excessive. While this, too, must be plainly attributed to heat in transit and in storage, we are also of the opinion that a good deal also of the shrinkage was due to what was shipped too young. Butters were not quite as fine as usual, but we could see no fault of make and again attribute the lack of freshness and flavor that we found in some cases to climatic conditions.

CONSUMERS GET OFF EASILY.  
Consumption has been maintained in this country despite the high market prices. The rise in wages, and counts in some measure for this, but the market rise has not been fully felt by the consumer. There has been a strong competition in the retail trade of the country and as a result the public have never paid more than 7d to 8 1-2d a lb. for Canadian cheese and 13d to 15d a lb. for Canadian butter.

We believe that fairly high prices will rule for both cheese and butter during 1912. As far as we can see at present the new season will open with very light defensive stocks in the hands of the traders and it will take some time for the market to get into anything like a normal state. We have had a very mild winter on this side of the Atlantic. The condition of the pastures both here and in Ireland is already more suggestive of April than of February. Country butter is coming in already and every effort will be made to produce as much milk as possible.

Mr. H. G. Gussow, Dominion Botanist, warns Canadian farmers against using imported potatoes for seed. Potato canker, a disease at present unknown in Canada, found its way into Newfoundland through imported seed and if we are to avoid a similar danger, we will use only home-grown potatoes for seed.

**Pump water, saw wood, grind grain, churn**



and do many other labor-saving tasks with the Barrie Engine. Will pay for itself quickly by saving valuable time for you. Strong, rugged construction. So simple a lad can run it. Sure in action, economical in operation. Every farmer needs one. Write for booklet.

**Barrie Engines**

Stationary or portable, 3 to 100 h. p. for gasoline, distillate, natural gas and producer gas. Make and break or jump spark ignition.

Agents Wanted

**The Canada Producer & Gas Engine Co., Limited**

BARRIE, ONTARIO, CANADA

Distributors: James Eas. Medicine Hat, Alta. Canadian Machinery Agency. Montreal: McCusker Imp. Co., Regina

For championship honours, largest yields and highest feeding values sow—

**CARTER'S TESTED ENGLISH SEEDS**

CARTER'S PEDIGREE MANGELS. Yellow Intermediate, Windsor Yellow Globe, Mammoth Long Red, etc. 40c. per lb. f.o.b. Toronto

CARTER'S PEDIGREE SWEDES. Invicta (bronze), Elephant (purple), Kangaroo (green top), etc. 30c. per lb. f.o.b. Toronto

CARTER'S "INVICTA" LAWN GRASS. For velvety "Old Country" lawns; varieties specially selected to succeed in the Canadian climate. Write for booklet on turf. Seed, per 25 lbs. \$6.25, per lb. \$1.30, per lb. 30c. f.o.b. Toronto

CARTER'S VEGETABLE AND FLOWER SEEDS, in 10c. pkts., post free

All bags and packets protected by the seal and name of the leading firm of scientific seed producers in the world



**JAMES CARTER & CO., London, Eng.**

Seed Growers by Appointment to H. M. King George V., H. M. Queen Alexandra, H.R.H. The Duke of Connaught

The distributors for Canada will supply or give the name of nearest dealer. Address:

**PATTERSON, WYLDE & CO. P. O. Box 532 TORONTO**

And at Chamber of Commerce, Boston, Mass.

**Bickmore's Gall Cure**



The old-time remedy for keeping horses in condition. Don't lose the services of your high-priced horses. Bickmore's Gall Cure cures galls on a horse's shoulders while the horse is working. Approved remedy for Cuts, Wounds, Scalds, Grease Heel, Sore Shins, and many other ailments. Write for full particulars. Sample bottles sent free. Look out for receipt of a stamp for postage. WINGATE CHEMICAL CO., Canadian Distrib., 245 North Dume St. W., Montreal, Can.

**The "Bissell" All-Steel Rollers**

The "Bissell" Roller is all steel except the Pole. It is braced and stayed so stand all kinds of hard work and wear well. The bottom of the frame is all steel too.

The end frame Hangers are formed from bar steel and there is no twisting or warping on "Bissell" Roller frames.

The (18) anti-friction Roller Bearings make light draught.

The Draw Bracket and low hitch does away with neck weight.

The Axle revolves with the drums and there is no squeaking or grinding.

The Cases holding the anti-friction rollers are the best yet; they're MADE OF MALLEABLE IRON IN ONE PIECE—no twisting or binding of the bearings on the axle of the "Bissell" Roller. The Seat Spring is reinforced and is DOUBLED AT THE HEEL.

These good features are not all of the advantages of the "Bissell" Roller. Many more good points are built into them, making a Land Roller that is "built for business," that stands up, against lots of hard work.

Ask Dept "R" for free catalogue.



T. E. Bissell Co., Limited, Elora, Ont.

## A Favorite with Women

An Agent of ours, who previously sold other makes of separators, says: "The reason I asked for your agency was because



## Cream Separators

seem to be the favorite with the women of this locality. Before I had Empires for sale, I've known women to go to a town ten miles farther on to get them."

Empire Separators well merit their popularity with women. They run so easily, children think it's fun to operate them.

They don't spatter oil. And the anti-splash steel supply can keep the milk from slopping out. They don't make a muss. They are clean-running machines.

The, very simple skimming de-

vices are easy to clean. Empires are sanitary separators.

They are not complicated in construction. Nothing puzzling about them. They are simple machines. Easy to put together. Easy to understand.

Surely madam, you will like to realize the pleasure and profit there is in owning a really good separator, therefore ask my agent to let you have one for Free Trial. This will place you under no obligation to buy.

You may have a copy of our latest catalog, too, if you'll just write our nearest office. 34

The Empire Cream Separator Company of

Canada, Limited

WINNIPEG, TORONTO, MONTREAL, SUSSEX

Agents everywhere in Canada—Look for the Empire Sign.

### WANTED

Assistant for cheese and why butter factory. Apply stating experience and salary expected to S. GIBSON. SCOTCH LINE, ONT.

**Second Hand FACTORY EQUIPMENT.** I can often supply you with as good as new and at very reasonable prices. Also of your needs in all lines of factory equipment. G. A. GILLESPIE, PETERBORO, ONT.

## DRUMMOND'S Guaranteed Dairy Supplies Are Used With Enthusiasm All Over Canada

You save money and time and bother by buying all your dairy supplies direct from the largest dairy supply house in Canada. Our Catalogue, sent FREE, illustrates, describes and prices all your needs. Satisfaction guaranteed with every purchase. Any of the following promptly shipped on receipt of price:

### Cool Your Milk Quickly and Preserve its Quality



Bever No. 871

Sour milk is caused by the formation of Lactic acid. Lactic acid is caused by the action of "Milk Bacteria" which are present in all milk when drawn from the cow. These bacteria reproduce themselves every 20 minutes in warm milk. To preserve the quality milk should be cooled as soon as possible after being drawn. These coolers will cool the milk to within 2 degrees of the temperature of the water used. Corrugated surfaces retard the flow of milk and insure proper cooling. The milk is also thoroughly aerated and all foreign odors removed.

No. 871 is made of copper re-tinned.

No. 322 is of tin with galvanized steel bottom.

### Bever No. 871

125 quarts per hour, wall style, guaranteed to cool within 2 degrees of medium. Complete . . . \$17.00

### Up-to-date No. 322

Low style, corrugated sides, used with ice water, brine or spring water. 140 quarts per hour. Complete . . . \$7.50

Write Now For FREE Catalogue of Dairy Supplies

Up-to-date No. 322

The Dairy Car on the Ontario Government Demonstration Train was Equipped Entirely with "Drummond" Supplies.

### Decimal Automatic Scale

is made especially for weighing milk in the pail. There is a hose indicator on the dial that can be set back by a drum-bow when the pail is on the hook. When the pail of milk is weighed this indicator gives the exact net weight of the milk.

30 lbs. by oz.	\$3.50
30 lbs. by tenths	4.50
30 lbs. by eighths	5.00

Straight Spring Scale

25 lbs.	35c.
50 lbs.	59c.

### Other Things for the Dairy

Stellite Sanitary Milk Pail	\$2.50
Babcock 4-bottle Tester, complete	8.50
2-bottle	4.25
Wrandotte Cleaner, 5 lb. bags	4.00
Milk Fever Outfit, Air Treatment, Guaranteed	3.00
Government design, complete	2.50
Garret Outfit, complete	3.00
Cattle Trainers for Blood	1.50
Hard Milkier Outfit, in case	3.00
Test Creamers, nickel	.50
Milking Tubes, 3 inch nickel	.50

### EVERYTHING FOR THE DAIRY

**This is Our GUARANTEE**  
We guarantee all our goods to be and so we say. If you have trouble in getting results, there is any defect whatever you buy, let us know and we will adjust it satisfactorily.

**W. A. DRUMMOND & CO.**

215 King Street E. Toronto

## Creamery Department

Butter makers are invited to send contributions to this department. We ask questions on matters relating to butter making and to suggest subjects for discussion. Address letters to Creamery Department.

### Solving the Bad Cream Problem

R. R. Cranston, Elgin Co., Ont.

I placed more than 40 tons of one pound prints of butter on the market last summer between the Niagara River and Windsor, and did not have a single complaint about the quality of the butter. I will be conceded that to do this I must have had good cream.

I attribute a great deal of this success to the fact that I use individual cans, altogether.

This in itself is a good expedient because every patron knows that his cream is inspected by the factory owner or manager and will come in comparison with their neighbor's cream. This is an incentive to do better.

I have adopted a method of holding meetings of my patrons in different sections of my territory on different routes in school houses where I have black boards to illustrate the nature of butter fat and its relation to butter. I also illustrate my method of making up each patron's account. I usually take my tester along and invite patrons who wish to bring in samples of cream, milk or skim-milk to have them there to be tested. I find a great deal of interest taken in the uses and benefits of the Babcock tester.

At those meetings I urge patrons to skim a good cream. I try to get

a cream as near 30 per cent cream as possible, but never advise skimming over 35 per cent. I show them how much easier it is to have ideal cream that is rich in butter fat than it is to have an equal grade of thin cream. I advise them to come to the factory and see for themselves the difference in quality of the two creams as it comes off the wagon into my sight can. I there advise them also to cool all cream as soon as separated and to mix warm cream with the cold, to have at least one can of cream cool as soon as skimmed and not to put fresh cream into the can until they skim again.

From 150 patrons I do not get more than four or five cans of what you would call poor cream. Some 20 of these patrons deliver their own cream at the factory.



In the Land of Cooperative Dairy Enterprise

The Tamaru Creamery, here illustrated, is owned and operated by the patrons who send milk to it. Cooperative dairying in New Zealand, as in Denmark, is a great success. Why should the principle not be applied in Canada?

### The Only Just Test

Alex. MacLachlan, Norfolk Co., Ont.

I have had experience with both the scales and pipette for testing cream at a number of creameries. My experience has satisfied me that the scales are the proper method for testing cream in order to give every patron his correct test and always one as they should be used.

We creamery men have always been advocating a richer cream. We should not then advocate scales not testing? One is just as essential as the other to the uplift of the dairy industry.

We have a number of patrons who still do and will continue to send this cream as long as they are on equal footing with the patron producing rich cream. For cream testing over 28 or 30 per cent. I find the pipette does not deliver the proper amount of sample into the bottle. The proper amount of butter fat is not, therefore, allotted to that patron, whereas the patron with the thin cream (I have had it tested as low as 10 per cent) by the pipette measures that same milk cream delivered into the test bottle.

### Why We Grade Cream

W. A. Wilson, Regina, Sask.

Some may ask why this new department from the old system. Why pay for cream according to its quality? The reasons are obvious. Competition, the demand for a higher standard of quality, and our desire to give the buyer the best value for his money and obtain the best price for the farmers, are the chief reasons. Butter that would pass as first-class 10 years ago would no longer pass as such to-day.

This standard is being fixed by the consumers, as they are demanding from the retailer, who in turn demands from wholesale dealer, cleaner, fresh, sweet flavored butter, possessing good keeping properties. If it lacks in any of these essentials it will only be accepted by the buyers when they cannot obtain an adequate supply of first grade.

Have you forgotten to renew your subscription to Farm and Dairy?

It is of the quality of the product for the consumer to meet the demand. It is the duty of the producer to meet the demand. It is the duty of the consumer to pay for the quality of the product.

Thousands of dollars are being lost each year by the dairy industry. The loss is due to the fact that the dairy industry is not producing the quality of product that the consumer demands.

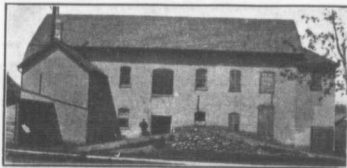
## Babcock

and including for GLENN EBY TESTER. I CAN get lowest prices. Also, a Brushes. G. A. GILLESPIE, Peterboro, Ont. Write to G. A. GILLESPIE, Peterboro, Ont.

**Carrying Dairy Instruction To the Farmers**

Frank Hens, Chief Dairy Instructor, W. Ont.

It is of the utmost importance that the quality of milk and cream produced for the making of cheese and butter be improved each year if we are to meet the growing demand for high quality dairy products. There are many ways of bringing to the producers important and necessary instruction with reference to this improvement in quality.



One of Ontario's Good Creameries

Something is already being done. The dairy instructors visit as many farms as possible each year in their respective groups and consequently well known for the good product that is there largely due to Mr. R. M. Plaver, the maker.

They attend the annual meetings of cheese factories and creameries (who nearly all attend these meetings) the points relating to improved methods. Where the makers select the milk closer each year great improvement is noticed. Thousands of pamphlets are distributed each season among the producers dealing with the production and care of milk and cream.

**EXPERIMENTAL EVIDENCE**

The instructors have been making experiments at two or three factories in the group to show the superior quality and greater quantity of cheese which can be made from well cooled

milk. The results of these experiments are discussed with the patrons. At the Toronto and London exhibitions dairy booths are now maintained where information is given. The "Better Farming Special Trains" have also been a factor in spreading dairy education. The dairy schools, the agricultural press, dairy bulletins, dairymen's conventions and other

agencies have been doing good work in bringing dairy instruction to the farmers. It has been suggested that a model tank for cooling milk, a model crane for hoisting the cans from the tank and a model insulated tank for cooling cream be installed at each factory. Then invite the patrons to visit the factory at any time when advantage can be taken of the opportunity to explain to the patrons how easily these articles can be made and put into use at the farm. They can also be used for demonstration purposes at the annual meetings.

All of these methods are having a good effect, and the milk and cream arrives at the factory each season in better condition. The price for dairy products is gradually going up as is also the standard of quality so that we must be continually on the alert. There is much work to do yet before we reach perfection.

**Special Trains for Homeseekers**  
Those taking advantage of the Homeseekers' Excursions should bear in mind the many exclusive features offered by the Canadian Pacific Railway in connection with a trip to the West. It is the only all-Canadian route. Only line operating through trains to Western Canada. No change of depots. Only line operating through Standard and Tourist Sleepers to Winnipeg and Vancouver. All equipment is owned and operated by Canadian Pacific Railway, affording the highest form of efficiency. Dining car service unsurpassed.

Homeseekers' rates will be in effect April 2, 16, 30, May 14, 28, June 11, 25, July 9, 23, Aug. 6, 20, Sept. 3, 17, and round trip second-class tickets will be issued via Canadian Pacific Railway from Ontario points at very low rates, for example, Winnipeg and return, \$34.00. Edmonton and return \$42.00, and other points in proportion. Return limit 90 days.

For the accommodation of Canadian Pacific Railway passengers, a special train will leave Toronto 2.00 p.m. on above dates, comprised of Tourist and Colonist Sleepers. Colonel Sleepers may be occupied free of charge. Passengers, however, must provide their own bedding. Tourist Sleeping cars will be operated through to Edmonton via Saskatoon, also through to Winnipeg and Calgary. A moderate charge is made for berths in Tourist cars.

Both Tourist and Colonist cars are provided with cooking ranges which trainmen have instructions to keep in condition. Full particulars from any Canadian Pacific Railway agent. Ask for copy of Homeseekers' Booklet.

**Ideal Green Feed Silos**

ONLY the best grade of Canadian spruce, especially selected for our exclusive use, is employed in the construction of Ideal Green Feed Silos.

All lumber is thoroughly air-dried and after being finished is saturated with an especially prepared sealing solution, used exclusively by the De Laval Dairy Supply Co., Limited, which prevents rot or decay, reduces the tendency of the staves to swell or shrink and prevents the acid in the ensilage from injuring the staves.

This secret sealing solution with which all our silo lumber is treated adds from two to three times to the life of our silos compared with other silos not so treated.

All our stave wood is of uniform size and age, thus insuring an even swell and shrinkage throughout.

All Ideal Green Feed Silos are hooped with round iron hoops every thirty inches apart and the hoops at the bottom where the strain is greatest are made heavier. Only malleable iron lugs, made after our own exclusive process, are used. These are much superior to cast iron lugs by reason of their greater ability to resist the action of our Canadian frosts.

The materials and construction throughout of the Ideal Green Feed Silos are of the very best, and everyone contemplating the erection of a silo this year will find it to his advantage to get our specifications and prices before contracting for the erection of a silo.

**BE SURE AND GET OUR NEW SILO BOOK Free if you mention this paper**

**DE LAVAL DAIRY SUPPLY CO., Ltd.**

LARGEST AND OLDEST SILO MANUFACTURERS IN CANADA

173 William Street, MONTREAL. 14 Princess Street, WINNIPEG



All doors on the Ideal Green Feed Silos are self-sealing.

Doors are only 6 inches apart, can be removed instantly and are always air tight.

The roof is self-supporting built without rafters.

Dormer window facilitates filling silo clear to the top. All sizes furnished.

**Babcock Testing Outfits**

including all Articles and Utensils for CHEESE FACTORY and CREAMERY USE. I CAN SUPPLY YOU THE BEST at lowest prices. Also, a Complete line of Dairy Brushes and Utensils for FARM PURPOSES. Write me of your needs.

G. A. GILLESPIE, PETERBORO, ONT.



**THE** harder you work the Louden Hay Carrier and the heavier you load it the better it shows up. You can't break it down—years of hard service won't send the Louden HAY CARRIER to the repair shop. It lasts a lifetime. Its lock has a square catch and cannot possibly wedge or fall to work. The powerful wheel arms will never spread. All twist and kink are let out of the rope by its own patented patent rope swivel, the only successful swivel on the market. Won't bind on the track, has adjustable forks. The Louden Balance Grapple Fork is the best fork ever built. Will handle dry clover, alfalfa or thrashed straw where all others fail. The Louden Hay Carrier and Louden Grapple Fork work in any barn and handle all kinds of hay with more resistance than any others. See them at your dealer's or he does not have them contact us. Send for catalog of complete barn and house fixtures. Louden Hay Carriers, Door Hangers, Litter and Feed Carriers, Cow Stalls, Cow Stanchions, etc.

**Louden Machinery Co.**  
Dept. 102 - GUELPH, ONT.

**How Would You Like to Have the Skimming Done When the Milking's Done?**

HERE'S what farmers and dairymen have been waiting for—now it's done in one machine, THE AUTOMATIC—brought up in 15 seconds to full steady speed. Runs for hours without watching or attention. Skims clean, regardless of temperature of milk as proven by Government and State and private testers' tests told about in our book. One size for every size dairy. Capacity large, economical and money-making separator, whether you have 3 cows or 300.

**Delivered on Your Place With Demonstration—At a Low Price That Will Astonish You**

Most liberal guarantee and selling plan on the AUTOMATIC that you ever heard of—ask for no fee for this demonstration machine, or write in other circumstances, that you'll be delighted that you wrote to us to investigate the merits that make this machine work. It will do, including any and all expenses, including all about the AUTOMATIC. Register with Century Washer. Book tells connection with our AUTOMATIC ELECTRIC LIGHTING PLANT to send it up at once our big AUTOMATIC Engine. Just send your name so we can mail you our AUTOMATIC book—just off the press for 1912—the most complete, money-making facts on cream separators, and contain more both for farmers and dairymen with illustrations to prove them. You get or where you live. Investments and how the book makes you big money or not. Write and get our Big News Book Free. Decide now to post it on letter today, and mail it for our big book which will make and save you many dollars if you will let it.

**Standard Separator Company**

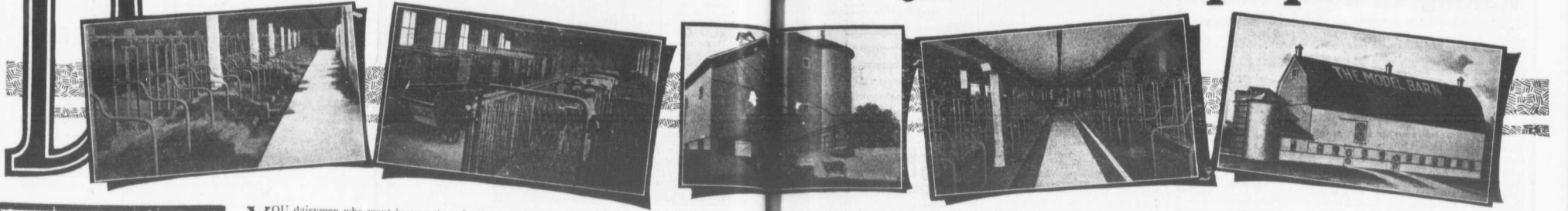
Morton Decker, President  
Sole Manufacturers and Patented  
275 Reed Street  
MILWAUKEE, WIS. U. S. A.

**The AUTOMATIC**  
Self-Contained Combination  
Gasoline Engine and Cream Separator

Send Name on a postal TODAY, and be sure to ask for our FREE BOOK 22

CANADIAN ORDERS shipped from Canadian points E. & B. Canada duty paid. Address all correspondence to Home Office above.

# DAIRYMEN!—Investigate Our Free Barn Plan Service and B.T. Sanitary Barn Equipment



### What the Pictures Represent

A few interior and outside views of barns that are equipped the B.T. way are shown in these pictures. Barns equipped this way reduce stable work to a minimum. They are bright and attractive in appearance. It is no trouble to keep them in a clean, sanitary condition.

First we show a long row of cow stalls. Next a row of calf pens, then a barn with litter carriers, another interior view showing stalls (inside out), and, lastly, an outside view of what we consider is a model dairy barn.

### Free Barn Plan Service

With B.T. Sanitary Barn Equipment you get something besides your equipment. To get the best results from your cows your barn must be properly planned, properly ventilated, and constructed up to a certain standard. Good equipment alone will not do it. We want our customers to be thoroughly satisfied with their stables wherever B.T. Stalls are used. For this reason we have gotten out our book, "How to Build a Dairy Barn," fill out the coupon, and you will get it free.

The information and plans shown in this book, if supplied by any competent architect, would cost you a large amount, but we go further than supplying general plans and information. We will advise the plan to meet your specific requirements, no matter what they may be. Whether you are building, remodeling or just making a few changes, whether your barn be large or small, the special knowledge of Beatty Bros. is at your service.

### The Government Uses BT Equipment

During last summer a great number of Government barns were built in different parts of Canada. In every instance B.T. Equipment was used throughout. Careful investigation was made in every case by the Government authorities before orders were placed. Price was no object. In fact, in at least two cases other firms offered their equipment free, but in every case the full price was paid for B.T. Equipment.

B.T. Equipment must have merit, as these orders given below show, which are just a few of the large barns which we equipped last year. These barns put in B.T. Equipment throughout.

Three barns for the Dominion Government, one at Agassiz, B.C., one at Charlottetown, P.E.I., and one at Cape Rouge, Que.

Two barns for the Ontario Government, one barn at Monteth, New Ontario, and a very large barn at the new Central Prison Farm at Guelph. The large barns for the Saskatchewan University and Agricultural College at Saskatoon.

Possibly the largest and best dairy barn in Canada for the British Columbia Government Asylum Farm at New Westminster.

Seven dairy and horse barns for the Alberta Government for their seven experimental farms which they are establishing in different parts of Alberta, and also a large barn for their Asylum Farm at Ponoka.

Besides these Government barns, we equipped this last year many very large dairy barns. Among others a barn with 150 steel stalls for the Edmonton Dairy Company, two barns with 160 stalls for the Price Dairy Co., of Toronto, one barn with 130 stalls for the Moose Jaw Dairy Co., a large barn for Hayes Bros., of Carstairs, to supply Calgary with certified milk, a large barn for the Homewood Sanitarium of Guelph. Also stables on the Farmer's Advocate farm, "Weldwood."

You will notice that this list includes many of the largest and best dairymen in Canada. These men won't monkey with equipment that gives trouble. It's got to be right. B.T. Equipment is right.

**Y**OU dairymen who want increased profits from your milk production must look carefully to the arrangement and equipment of your barn. The inside of your barn is of vital importance. Through the equipment alone you may gain or lose hundreds of dollars each year. Dairy farming is like any manufacturing business. Your farm and your stock represent your plant. Dairy farming is like any manufacturing business of increasing profits is the cutting down of expenses. In farming this may be accomplished by the correct planning of your barn, together with the use of B.T. Sanitary Barn Equipment. Correct planning of your barn and proper arrangement inside will secure you greater storage room for grain and feed without extra cost. Your barn will be so arranged that your grain and feed can be housed with the least possible labor. It will enable you to care for more cows in the same sized barn. It will save you and your men time and labor every day by cutting in half the work of feeding and watering stock, in cleaning the stable, and in doing other barn work. It will protect your stock against disease, worry and accident, and many other advantages will be brought to light when you investigate every feature thoroughly—read on and see.

## B. T. Sanitary Barn Equipment

### DANGER OF FIRE LESSENER

A stable equipped with steel stalls and a cement floor is in very much less danger of taking fire than a stable equipped with wood stalls and a wood floor. In case of fire, cows tied with B.T. Stanchions can be released in quarter the time necessary to release them from a chain tie. Steel stalls and a cement floor offer absolutely no place for harboring vermin.

### DURABILITY IS IMPORTANT

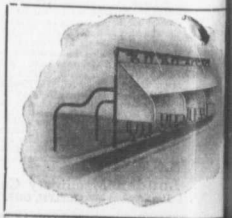
A stable equipped as above is practically indestructible. You are not troubled year after year with replacing and repairing. Should it ever be necessary to remove the barn, the steel stalls can be knocked out from the cement floor and set up in any other barn without any loss.

will pay for itself in one year's time. In addition, the expert counsel and advice we can give you, due to our wide experience in skill and planning, may save you a large amount of money on the original cost of building. Just by an inspection of plans, we have frequently suggested changes that resulted in the saving of hundreds of dollars, besides making marked improvements.

We have large completed blue prints with floor plans, sides and end elevations, and measurements for a great many different sizes and styles of barns. They embrace the most improved methods of construction, and we can furnish them with complete specifications and bill of material.

### Our Broad Guarantee

Every feature of B. T. Sanitary Barn Equipment is thoroughly tested in actual use before it is placed on the market. When you buy B. T. Equipment you know that you are not being experimented on, and we know that our equipment in every case will give satisfactory service, therefore, we are able to give an unqualified guarantee with all our equipment. You take no chances in buying B. T. Equipment. It is absolutely guaranteed to give satisfactory service in your barn.



### NOTE THE EXCLUSIVE FEATURES ON B. T. STALLS

There are many outstanding features in which B.T. Stalls are different from all others. Some of them are illustrated in the pictures at the bottom of this advertisement. The saving of space and labor, made possible by the adopting of these features, will pay for the equipment in a year's time.

In addition, the perfect freedom and comfort given the cows and the greater cleanliness made possible will increase the yield and improve the quality of the milk.

No other investment will pay as big dividends as B.T. Sanitary Barn Equipment. No other investment will give you greater pleasure than seeing your stalls equipped with a bright, sanitary and up-to-date steel stall equipment.

### Double Curved Stall Partition

The B.T. Double Curve Stall Partition affords protection for the cow which you cannot get with a single curved partition. The cow, when lying down, is protected from her neighbor stepping on her udder and ruining her. The downward curve permits the cow to turn her head in the stall and walk out in the natural way. They are very neat in appearance.

### Alignment Device

This, perhaps, the greatest improvement on stanchions ever brought out. It makes possible clean cows, because all the cows, large, small or any size, are aligned up evenly on the gutter. By means of this device the stanchion can be moved back or forward in the stall a distance of 12 inches. This device is patented and used only by us.

### Sure Stop Swinging Posts

This device provides a rigid post between the rigid arm of the stanchion and the stall partition when the cow is swung into the stall, making it impossible for her to put her head anywhere but in the stanchion. When the cow is in the stanchion, this post may be swung back out of the stall, giving the cow perfect freedom.

When you install B.T. Barn Equipment you will note many advantages and convenience and a greater protection for your cows. You will see how this equipment lessens abortion, and does away with the principal cause of big knees, ruined udders and many other injuries. You will see how the individual mangers prevent over-feeding and under-feeding.

Read on and learn some of the features that mean dollars and cents to you, and comfort and protection for your cows. And, remember, only on B.T. Barn Equipment can you get these features, because they are patented and used exclusively by us.

### Stanchion Rests

The stanchion, when open, is held in place by a small clip on the partition. This clip keeps the stanchion always in place, and is very easy to drop the stanchion into compared to the ordinary little clips and trappings used for holding the stanchion in place while open, and the beauty about it is that it leaves the stanchion open the maximum width, so that it stands from 6 inches to one foot wider open than any other stanchion. With this device, combined with the Sure Stop Post, there is never any trouble getting the cows into B.T. Stalls.

### Self-Cleaning Manger

Our Self-Cleaner Manger is made without a bottom—the concave trough built into the cement serves that purpose. The manger is easily raised. All refuse is left in the smooth continuous trough, which, when swept out, can be used for watering in. This saves the cost of water bowls. You have a good, capacious manger that insures you against waste of feed. You also have an individual feeding place for each cow, so that she can be fed according to her needs.

### Other Important Features

We would like to tell you about the B.T. Stall clamp. The B.T. Stanchion Clevis, which gives us our high level curb. The B.T. Stanchion with its strong features. The B.T. Calf Pens. The B.T. Bull Pens, all contain special features which owing to our patents, cannot be used by other firms, but the space in this ad. will not permit. Let us send you our catalogue. It will cost you nothing, and you will then be able to see for yourself.

That's what we claim for B.T. Equipment is true. You will then see that all the large dairy men who buy nothing but B.T. Equipment, and also the Dominion and several Provincial Governments, who always use it have good reason for their choice.

Fill out the coupon, and we will send you our catalogue, giving you full information, and also our book, "How to Build a Dairy Barn," free.

Write To-day  
**BEATTY BROS.**  
FERGUS, ONT.

### The B.T. Litter Carrier

The best way to keep the dairy stable clean is by means of a good litter carrier. They are water-tight. There is no drip or dirt spilled along the passage-way. On a level overhead track it is easy to handle large loads of manure, and no matter what condition the yard may be in, the manure can be placed a good distance from the barn. Or, if desired, with just the one handling dumped directly into a wagon or sleigh for hauling to the field.

The B.T. Litter Carrier is well known. More of them are sold in Canada each year than all other makes combined twice over. They are built strong enough to give satisfactory service year after year, and have many features of advantage not found on other carriers. We show our faith in the B.T. Litter Carrier by guaranteeing it absolutely for five years. Ask your neighbor who is using one about it.

### B. T. Hay Carriers

No storage barn is complete without a hay carrier outfit. In fact, to-day, no one thinks of building a barn without putting one in. The B.T. Hay Carrier Line comprises some 16 different styles of Horse Fork and Sling Outfits. They are in use everywhere. Our catalogue will give you full information about them.

Don't think that B.T. Equipment is too expensive for you. B.T. Stalls cost no more than other makes of steel stalls, and a good steel stall outfit can be installed in your barn as cheaply as the old-style wood stall.

Why not have the best? By filling out the coupon you will know what it will cost you to fit out your barn with B.T. Equipment.

### BEATTY BROS.

Fergus, 1613 Ontario

Please send me free, as per order, your book, "How to Build a Dairy Barn," and full information about B.T. Sanitary Barn Equipment.

How many cows have you?.....

Are you remodeling or building a new barn?.....

If so, when?.....

Will you need a Litter Carrier?.....

Name.....

Post Office.....

Province.....

By filling out carefully the coupon we will know what books and information to send you.



## Making an Extra Profit

Like other keen farmers, you are after extra profits. Rich land pays you an extra profit over poor land. It pays well to keep cows on wheat, fruit and other farms to enrich the land. High-producing cows pay you an extra profit over average cows—and the high-producing

### SHARPLES

#### Tubular Cream Separator

will pay an extra profit no other separator can pay. This is because Tubulars have twice the skimming force, skim twice as clean and produce the finest velvety cream. This extra Tubular profit appeals strongly to shrewd dairymen and business men. One instance, out of many, is the Free Masons' Home shown above, which is located at Windsor, Nova Scotia. Reverend J. B. Merrill, superintendent of the home, while treasurer of a well-known creamery, disca-ded a disk machine for the Tubular. The simple, sanitary Sharples Dairy Tubular, which contains no disks, is the machine which does the work for this well-known home and its guests.

Remember that the oldest separator concern on this continent positively guarantees Tubular forever. Write at once for Catalog 283 and learn about the extra TUBULAR profits.



**The Sharples Separator Co.**  
Toronto, Can. Winnipeg, Can.



**COWS**  
EIGHT HIGH GRADE HOLSTEIN Cows, young, five-year-olds. Due to freshen late this March and 1st of April. First class milkers. Write, and come and see them.

JAS. STOTHART,

R. R. No. 4 PETERBORO, ONT.

### BUTTER MAKER WANTED

Capable man to take charge of branch creamery at Gloucester. Apply with references and salary expected.

**THE LAMBERT CREAMERY CO.**  
PETROLEA, ONT.



## TRIED AND TRUSTY

**THE LEADER SEEDER** is an old favorite—tested and tried to the last furrow—prized by the successful farmer, and indispensable to the beginner. If a durable machine is wanted, the Hamilton has a record that gives it first place. If an accurately built machine, easy to operate, is wanted, get the **LEADER**, for there is none better.

Not only has the **LEADER** been proved admirably fitted for all conditions of work, but its reputation as a light draft, fast-working machine has been the boast of farmers.

The Pressure Feed sows all kind of grain with unvarying and Uniform precision.

The grain is always sown an universal depth. Nothing can interfere with this Drill's unvarying even sowing.

**The Peter Hamilton Co., Limited**  
Peterborough, Ont.

## Cheese Department

Makers are invited to send contributions to this department, to ask questions on matters relating to cheese making and to suggest subjects for discussion. Address letters to The Cheese Maker's Department.

**We Manufacture Too Cheaply**  
J. A. Ruddick, Dominion Dairy Commissioner.

The greatest evil in connection with the factory end of the dairying industry in Canada at the present time is the extremely low rate which prevails for manufacturing. Privately owned factories are being run at an unreasonably small margin over actual cost. The result is that owners are compelled to carry on the manufacture of butter and cheese in altogether too cheap a manner. They cannot afford to pay decent salaries for cheesemakers and buttermakers and the equipment is of the most meagre kind in too many instances. The cost of manufacture is increasing like everything else, but the rate charged for manufacture is in many cases lower than it was 10 years ago. The tendency is bad in every way.

I believe that the patrons of factories are ready to pay more money if they are properly shown that they will get value in a better article being rendered to them. It could hardly be expected that the privately owned factories in Eastern Ontario will introduce curing to any extent unless they receive some encouragement. They really cannot afford it at present and the industry is suffering a great loss because curing is not general.

### Government Will Investigate

Through the efforts of Dr. Edwards, the member for Frontenac Co., Ont., the Hon. Mr. Burrell, Minister of Agriculture for Canada, has promised that a commission will be appointed to investigate the grievances of the cheese makers and patrons of Eastern Ontario and Quebec. This is a distinct victory for the cheese men of the East who have for several years been calling for government protection in the carrying on of their business.

In calling for government action in the House recently, Dr. Edwards exhibited eloquence how unjust was the system of weighting cheese now practiced at Montreal pointing out that if the loss in all factories was as great as those of the factories from which he had heard the actual loss to dairymen during the past 10 years would amount to \$2,341,596. The losses due to the failure of firms buying cheese are still greater. A case was cited of a factory in Carleton County that lost \$1,800 in this way. Other factories had lost almost as heavily. The failure of one concern had involved a total loss to dairymen of \$1,000,000. Dairymen would have preferred that the question be dealt with immediately by the Government but the appointment of a commission has given them hopes that their grievances will in the end be properly adjusted.

### Propagation of Pure Culture

R. W. Ward, Dairy Instructor,  
Peterboro Co., Ont.

Our intention in using the starter is to add the desirable fermentation, the pure lactic acid bacteria, in order that it may overcome, outgrow and crowd out other undesirable fermentations.

In preparing the culture I would advise makers to take the cleanest and best milk available, preferably that which is fresh from the cow, heat it to 180 F., hold at this temperature at least 20 minutes, cool to 70 degrees



**NOTHING in cheese making is more important than salting the curd.**

The flavor—even color—smoothness—keeping quality and market price—all depend on the way the curd is salted, and on the salt used.

## WINDSOR CHEESE SALT

Makes Prize Cheese

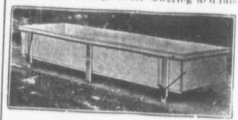
It gives a smooth, rich flavor to the cheese—dissolves slowly—stays in the curd—and makes the cheese keep as good cheese should.

Windsor Cheese Salt is cheapest in the end because it goes further.

73C

## The "Perfect" Steel Cheese Vat

OUR "Perfect" Steel Cheese Vat has several unique merits. Being all steel it is durable. Having no cracks or crannies for milk to lodge in and decompose, it is sanitary. Having levers and gears for lowering or raising



ing, inch by inch, it is handy. Also it is built so that the fast drop runs out; that is, it is an ideal drain.

Write for our special catalogue of dairy equipment.

**SPECIAL PRICE FOR CASH**  
**Steel Trough & Machine Co., Ltd.**  
TWEED, ONT.

## Purity Salt

IS

**The Dairymen's Favorite**  
Makes Tastier Butter and Better Cheese

Don't take our say so. Write to our factory and we will send you samples to prove our statement. You can be your own judge.

Prices will be mailed also.

Write to-day, to-morrow is too far away

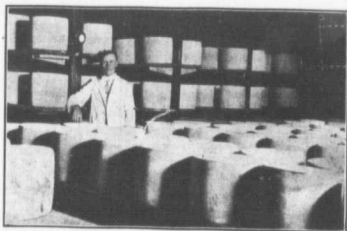
**THE WESTERN SALT CO., LIMITED**  
DEPT. "A" MOORETOWN, ONTARIO

or lower. When real culture which validity of to 7 per cent over-soured times should be and appearance or to cream, in favor amount to small. I regulate the at this a the amou pure culture ed to the for milk. I rec taking in sealer at preparatio is require prologatio day. All with c's should y steriliz solutio not fed culture. I would possible, of one per use! at the time a according the loss of the

**Better Milk**  
Editor, quality of coiced by out last seen in fact, I been better. With resp whether th improve the on, the on the cheese w ly if it were it was throughout frequently ture state, a week or fit for cons there, but costly ripe. Prices dr tremely high that the s as sustained on. I am we are not John C. L. L. L.

**Criticis**  
G. G. Publ Old cou satisfied wi cheese. Th talked wh summer m however, th very com ing the c was that and n. Some were leanness w having bee I had diffi that, in such w the defect ture, insuffi cause, to in this defec tible in the cheese ket shortly

or lower, and add the pure culture. When ready for use next morning this should be thick with a acidity of from .6 to .7 per cent, but not over .7. When poured a few times, the culture should break up and present an appearance similar to nice smooth cream, mild in flavor and pleasant to taste and smell. I would regulate the acidity at this stage by the amount of pure culture added to the pasteurized milk.



Cool Curing Rooms Will Soon be a Necessity

Conditions in the cheese trade are changing Canadian cheese is less and less in demand, both for export and home markets. That means cool curing rooms like the one here illustrated as in the Sydney Factory, Hastings Co., Ont. In the illustration Mr. J. Irvine, the maker, may be seen.

Western Ontario, as well as those in the East, have been tempted to let their goods go out rather early. They are making a serious mistake in doing this.

**Better Matured Cheese Wanted**

Editor, Farm and Dairy.—The quality of both butter and cheese received by us from Canada throughout last season was very satisfactory; in fact, I do not think it has ever been better.

With regard to your question as to whether there are any points where improvements are needed, in my opinion, the only important point is that the cheese would be benefited generally if it were not shipped quite so green. It was particularly noticeable throughout the season that the cheese frequently arrived in a very immature state, and required to be kept a week or two before it was really fit for consumption. The quality was there, but the cheese was not sufficiently ripe.

Prices during last season ruled extremely high, and it is not probable that the same high average will be maintained during the coming season. I am of opinion, however, that we are not likely to have low prices. John C. Lovell, Lovell & Christmas, Ltd., London, E. C.

**Criticism of Our Cheese**

G. G. Pablow, Chief Dairy Instructor, Kingston, Ont.

Old country shopkeepers are well satisfied with the quality of our best cheese. The dealers with whom I talked when in Great Britain last summer mentioned a few defects, however, that we might improve. One very common complaint regarding the quality of our cheese was that they were too lean, and not showing enough meat. Some were of the opinion that the leanness was due to some of the fat having been removed from the milk. I had difficulty in convincing them that such was not the case, but that the defect was due to lack of moisture, insufficient curdling, and in some cases, to over-salting.

This defect was probably more noticeable in 1911 than formerly, as the cheese were placed on the market shortly after their arrival, owing

to the scarcity and light stocks on hand. I found that factorymen in



"Fruit Growers Out My Way All Use

**"VANCO"**

Spray Chemicals and Fertilizers

We have found "Vanco" Lime Sulphur Solution and "Vanco" Arsenate of Lead always satisfactory in keeping fruit trees and vegetable free of Scale, Fungus Growths and Leaf-eating insects.

Why don't you use "VANCO" Spray Chemicals?

**SAVE FREIGHT**

by buying Sprays and Fertilizers together and having all come in one shipment.

Write for the "Vanco" Book.  
**CHEMICAL LABORATORIES LIMITED**  
148-158 Van Horne St., Toronto, 40

**Mr. Farmer, Listen!**

Would you like to receive one of Wilson's GOLD-MEDAL Scales

Delivered right to your nearest station? FREIGHT PAID BY WILSON.

That's our offer! Write today for our special Prices. 160 different styles of Hay and Stock Scales.

C. WILSON & SONS  
71 Eglinton  
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TORONTO



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For Dairy Farmers who feed

**Cotton Seed Meal**

ONE TON IS BETTER THAN 1 TONS BRAND. Many dairy farmers tell me this Cotton Seed Meal is THE BEST MILK PRODUCER they ever fed. Cows milk better when fed Cotton Seed Meal; they slacken off immediately when not fed Cotton Seed.

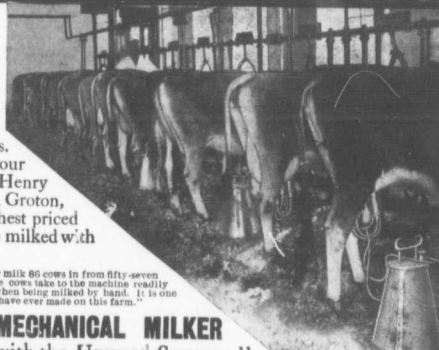
Try It! Guaranteed Analysis, 41-48, Protein

PRICED LOW AT \$38 A TON.

G. A. GILLESPIE - PETERBORO, ONT.

**\$300 TO \$1000 A YEAR IN EXTRA PROFITS FOR YOU**

This is not a mere claim. It is the actual experience of all owners of Sharples Mechanical Milkers. We don't ask you to take our word, nor their word, for this. We stand ready to prove it on your own cows or no sale. Mr. Henry Fielden, Supt. Branford Farms, Groton, Conn., where some of the highest priced Guernsey cows in the world are milked with a Sharples Milker, writes:



"Two men with the Sharples Milker milk 60 cows in from fifty-seven minutes to an hour and a quarter. The cows take to the machine readily and seem much more contented than when being milked by hand. It is one of the most profitable investments we have ever made on this farm."

**THE SHARPLES MECHANICAL MILKER**

It has the "Teat Cup with the Upward Squeeze," which pushes the blood back with each pulsation, overcoming the stumbling block of all former mechanical milkers. It leaves the teats in a perfectly normal condition, the same as after hand milking. The cow is treated so gently she enjoys it, and fears no injury, no abuse. She stands perfectly contented giving down her milk more readily and more freely than when milked by hand. The yield is increased—your dairy profits grow. Read this letter from Hon. Wm. C. Sproul, Chester, Pa.

The Sharples Mechanical Milker has few parts, is easily cleaned, and produces milk of the lowest bacterial content. It milks the cow cleaner than the average hand milker.

"The Sharples Mechanical Milker seems to be entirely comfortable to the cows; in fact, our cows are in much better condition now than they were when the milker was started, and the quantity of the milk has increased about ten per cent. Altogether, I consider it about the most satisfactory investment about my dairy."

**Fill Out the Coupon—Send for Catalog Today**

Let us tell you how we will put a Sharples Milker in your dairy and guarantee it to give you perfect satisfaction or no sale. We prove it does the work to your satisfaction. We give you ample time for trial. Send the coupon now for catalog. Guaranteed by a company that has been making high-class dairy machinery for 31 years.

**THE SHARPLES SEPARATOR CO.**  
WEST CHESTER, PA. Chicago, Ill.; San Francisco, Cal.; Portland, Ore.; Dallas, Tex.; Toronto, Can.; Winnipeg, Can.



Name \_\_\_\_\_  
P. O. \_\_\_\_\_  
State \_\_\_\_\_  
I am milking \_\_\_\_\_ cows at present.  
The Sharples \_\_\_\_\_  
Mechanical Milker \_\_\_\_\_  
is the best I have ever used.

## OUR FARM HOMES

THE best teacher of duties that still lie near to us is the practice of those we see and have at hand

### The Second Chance

(Copyrighted)  
NELLIE L. McCLUNG  
Author of "Sowing Seeds in Denny"  
(Continued from last week)

Pearl, the eldest daughter of John Watson, a C. P. R. section man at Millford, Man., receives a sum of money and starts in to educate herself and the rest of the family. She proves a clever scholar but seeing that her small brothers are getting into bad habits in town, suggests moving the family on to a farm. We are next introduced to the children at a country school. Tom Steadman, a bully, is threatened by Bud Perkins for striking Libby Ann Cavers. The Watsons again take up their education at the country school. At the Pioneers' Picnic, Bill Cavers, father of Libby Ann, gets drunk and is found dead. Sandy Braden, the hotel keeper, deeply affected, closes up his saloon in consequence. Mr. Perkins slings his grain with frozen wheat and Bud gets the blame. He leaves home. Mr. Perkins' daughter, Wynsey, Arthur is engaged to an English girl, who is shortly to come out and join him in his new home. On the boat she falls in with another young man. Arthur goes to look up his rival.

AT half-past eight Arthur was walking the street. No one would imagine, to look at the quietly dressed young Englishman, that he was going through a severe mental struggle. Without any difficulty he found the store for which he was looking. The words on the sign, "J. C. Smeaton & Co., Dry Goods," in black and gold, seemed charged with open hostility.

A group of women stood in front of the door waiting for it to be opened. They were looking longingly at the window display of lace blouses, which were going to be sold, according to a staring sign, at half the regular price. They were the typical bargain-hunters, sharp-eyed and distrustful, and not particularly amiable. Early rising on a cold winter morning is at the best no aid to amiability, even if by the effort a ten-dollar blouse is bought for five.

The waiting group were discussing sales in general, and one woman was disposed to think that all sales were snares and delusions—she lived on Eighteenth Street, and had had to get up very early. Another woman exonerated herself from complicity in the matter of sales by saying that her sister-in-law had telephoned her to come down and get her a waist, she would never have come for herself, never! There was only one real optimist in the crowd—of course, optimism does not usually flourish before breakfast. She declared that Smeaton's sales were all right. If Smeaton advertised a sale it was a sale. People could say what they liked about Jack Smeaton, but she had always found him straight as a string.

Arthur hurried away—the woman's crude words of praise for the man he hated struck him like a blow between the eyes. Arthur went first to a Church of England clergyman whom he knew slightly, and made inquiries. The clergyman was unable to give any information about the young man. He knew him well by sight, he said, but he had never spoken to him. He directed Arthur to go to one of the wardens of his church, a Mr. Bevan, who was one of the old-timers in Brandon and knew everybody.

To Mr. Bevan's office Arthur went,



"In the Good, Old-fashioned Way"

Those who have never attended a "sugar off" in the maple bush have missed something that never fails to bring back pleasant memories; particularly to those who are no longer on the farm. The large pots and open fire such as are here, more than that most of us think of in connection with the "sugar off" are being displaced by the modern evaporator. Not so romantic perhaps, but more profitable.

"Would you consider him a man worthy of trust?" Arthur said eagerly, trying to piece through the old man's policy of prejudice.

"Trust!" the other repeated, scorn, wonder, contempt in his voice. "Young man, where were you at the time of the last election? You talk like a man from Mars. Didn't you hear about the ballot-stuffing that went on here? How do you suppose the Grits carried this constituency? No, sir; I would not trust him, or any of them."

Arthur rose to go. "My advice to you, young man, is to have no dealings with Jack Smeaton. He's pretty nearly sure to influence you, for, mind you, he has a way with him."

Arthur walked back to his room at the hotel with many conflicting emotions struggling in his heart. Jack Smeaton was evidently a man of strong character, and a flirtation such as he had carried on with Thursa would mean nothing to him—he had probably forgotten it by this time. Couldn't he honestly go back and tell Thursa that one of the churchwardens, to whom the clergyman had told him emphatically to have nothing to do with Jack Smeaton? Thursa would ask to know nothing further. She had said, with that sweet look in her face, that if he came back and told her to forget this fellow she would marry him and do her best. Arthur recalled every tone of her dear voice, the touch of her soft little hands, as she said this. Thursa was his own. She had come from England as his affianced wife. What right had this adventurer to steal her away from him? Arthur clenched his fists and raged at the man who had done him this injury. He would go back to Thursa in the morning, and she would be happy yet. This man's name would never be mentioned again.

Arthur was not nearly so happy in this resolve as he expected to be. There was a distinct uneasiness in his heart that increased as the day went on. At five o'clock he stood outside the Smeaton store, to which he seemed drawn by a strange fascination. The man who was so largely in his thoughts was, no doubt, only a few feet away from him, happy, careless, prosperous, arrogant, having his own way by hook or by crook. The store would be closed at six.

Arthur started back to the hotel. What did he care when the store closed? It was nothing to him. At the corner of Kusser and Eighth Streets some Salvation Army people were holding a meeting, and as he passed through the crowd the tinkle of their cymbals in a familiar tune came to his ears. Then a dozen voices, clear and distinct, broke into singing:

If some poor wandering child of Thine Has spurned to-day the voice divine, Now, Lord, the gracious work begin.

Let him no more lie down in sin. It brought him back to the old life at home, this dear old hymn of his childhood, with its old-fashioned, monotonous tune, and it awakened in his consciousness the voices he was trying hard to silence. A light shone in upon him and showed him a straight path, a hard road, set with thorns, which he must follow. The colour suddenly went from Arthur's face as he realized which way the path of honour led.

Abide with me from morn till eve. For without Thee I cannot live. And trembling on the outer edge of the crowd, leaned against a lamp-post for support. He did not hear the words they were singing, but the old tune beat into heart and brain the memories of his home and childhood. He saw his father's saintly face, proud and strong, unstained by any compromise with evil, and it called to him across the sea to play the man.

The Army had sung the hymn all through, and now they were kneeling in prayer; a thin-voiced girl led the section, and she explained frequently interjected exclamations of thanksgiving. Arthur did not hear a word of it, but into his troubled heart there came peace and the strength of faith, which alone is able to make a man swear by his own hurt.

He walked rapidly back to the store he had left and asked to see Mr. Smeaton. Mr. Smeaton had his hat and coat on, about to leave the store, but he came back, and taking Arthur into his office, offered him a chair.

Arthur remained standing, and without speaking, gave the young man a searching glance. What he saw was a muscular young fellow, of about his own age, with clear grey eyes and curling brown hair. He was faultlessly dressed, and had an unmistakable straightforward expression and confidence.

"What can I do for you?" the young merchant asked.

Without a word Arthur took from his pocket Thursa's telegram. His hand trembled, and he had a queer, dizzy feeling as he did it, but he put it safely in the other's hand. Away across the sea, in the Rectory of St. Agnes, a grey-haired father and mother were praying for their boy so far away, and their prayer for him that day was not that he might have wealth, or ease, or fame, or the praise of men, nor that he might always gain his heart's desire—not that at all; they asked for him a greater gift still—that he might always walk in honour's ways.

Jack Smeaton's face was illumined with joy as he read Thursa's telegram.

"Did she send me this? Where is she?—I want to see her—who are you?" he asked all in one breath.

Something in Arthur's face told him who he was.

"You are Arthur," he said gently. Arthur nodded.

(To be continued)

Keeping Mrs. D.

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Two young frames is house who reach it. Suspend hook of wall from with the The water the burlap The evaporator butter and burlap cover. The Lea. it is so he Any of us the evaporation is pr burlap cover it is to my is to keep and I always that.

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**Keeping Butter Without Ice**

Mrs. D. C. Johnston, Victoria Co., N. B.

I have solved to my own satisfaction at least the problem that many of our country women are up against who do not have ice available—keeping butter and other dairy products in good condition in hot weather. The scheme that I have adopted works by the principle of using up heat by evaporating water. On the shady porch at the rear of the house, I have had erected a frame three feet each way and covered it with burlap. This

flat pans or shotgun creamers for creaming the milk. This means an endless amount of work and an inferior cream despite the best of care. For the farmers' benefit I would suggest that the extra value of his skim milk for feeding would return him good interest on the investment in the cream separator.

The second most necessary instrument in my opinion is a barrel churn. All women who have ever used a dash churn, know what a back breaking instrument of torture it is.

The proper working of the butter after it is out of the churn has a lot to do with retaining a good texture or graining. The triangular lever butter worker costs very little and it also is a labor saver of the best variety. Of course, a good supply of pails, dippers and a butter printer are presupposed. The three implements that I have mentioned, the cream separator, barrel churn, and lever butter worker, are still needed on thousands of farms and would therefore be a good investment financially and would save the housewife many hours of the hardest kind of work.

**Deceptive Housekeeping**

By M. T. B., Wellington Co., Ont.

In housekeeping, as in other things, there is grave danger of persons mistaking appearance for reality. The dustless floor, the spotless kitchen table, and the array of burnished cooking utensils appeal to the artistic sense and one is liable upon finding a kitchen of this kind to feel confident that the housekeeper is clean and competent.

It is not enough that a house should look clean. To be a healthy abode for human beings it must be clean; and to be clean the processes of cleaning must be carried on from day to day in a particular manner. Better that the kitchen table, cupboard shelves, kneading and meat boards should never be scrubbed at all than that they should be scrubbed by a foul or contaminated scrubbing brush.

**PURITY IN CLEANING.**

It is as important for the end of purity that a wooden brush be kept for cleaning all wooden utensils and kitchen boards that come in direct contact with food, as it is that the dish cloth should be kept separate from the floor cloth. Yet I have reason to believe that in many families one scrubbing brush is considered sufficient, being made to answer all purpose until it's dirty, water-soaked, with the bristles dripping out.

Housework, and especially kitchen work, is a finer art than it is commonly believed to be. It is a serious mistake to suppose that anyone may undertake it. A drowsy stupid and ignorant person, without refinement of instinct, is as unfit to manage the delicate intricacies of the modern kitchen as she is to teach school. Training on the part of a mistress may overcome some of her faults; she may learn to be tidy, may acquire a degree of skill in cooking, may be obedient and pleasing in manners; but never will she be so approximately capable of anything but a superficial difference between the clean and the unclean.

**THE FINER APPRECIATION.**

What can the dull intellect know about the microscopic germ? If the mere appearance of cleanliness is made the end, it is wrong; when ways and means are subordinated to having things merely "look nice"; when for instance, more attention is given to tying the broad strings of a white apron than to brushing the finger nails, when front windows shine, and cellars emit deep odors, and one filthy scrubbing brush does the cleaning for the entire household.



To sleep late's pleasant, now and then, Make it Sunday morn—says Big Ben

Big Ben is an alarm clock that's on the job every minute of the day. He rings on time, he runs on time, he stays on time.

He weighs three times as much as the average alarm clock, he rings three times as loud, he lasts three times as long.

He has a great big dial you can easily read in the dim morning light—a cheerful, deep toned voice that will wake you on your sleepiest mornings—large, strong winding keys that are a

pleasure to wind—selective alarm calls that ring just when you want and either way you want, steadily for five minutes or intermittently for ten.

He's punctual, lasting, handsome and the best insurance against oversleep that's ever been heard of. His work doesn't end with the morning call, he's a good reliable time keeper for all day use and he's a good looking enough for any surroundings.

5,000 Canadian dealers have already adopted him. His price is \$12.00 anywhere—a community of clockmakers stands back of him, *Waltham, La. Safe, Illinois*—if you cannot find him at your dealer's, a money order sent to them will bring him to you every charge prepaid.



**Good Friends**

The young son of J. E. Semple, Colchester Co., N. S., and pure bred Jersey calf. Two crops worth while.

frame is nailed to the side of the house where dogs, cats, etc., cannot reach it.

Suspended over the frame from a hook on the ceiling of the porch is a pail of water. Wide strips of burlap run from the pail and are connected with the burlap covering the frame. The water seeps from the pail through the burlap and saturates the cover. The evaporation of the water keeps butter and milk perfectly inside the burlap covering.

The Leauty of this scheme is that it is so cheap and it is self-regulating. Any of us can make it for ourselves and the hotter the day the faster the evaporation and hence the temperature is practically as low inside the burlap closet as it is in cooler weather. The only labor connected with it is to keep the bucket full of water and I always get my husband to do that.

**Apparatus we Should Have**

A. Cumming, York Co., Ont.

Before I start giving my advice as to the apparatus that the farm wife should have in order to produce good dairy butter, I must plead guilty to having a selfish interest in wishing to see her dairy room well equipped. I am a dealer in dairy supplies. But even if it is to my own interest, I would still equipped dairies all over the country, it is even more to the interest of farm women. For instance, I recently visited a farmer who had 10 cows and his wife was making the butter and all of these cows in a dash churn. I could not persuade him that he could afford to invest in a barrel churn. He considered the old dash chiefly all right. It is a pity he did not have to run it a few times and he would get over that idea.

If there is any one thing that should be found in every farm dairy there are four or five cows or more, it is the cream separator. I have been surprised to find the number of women who are still using the

**HARTSHORN SHADE ROLLERS**  
 Bear the script name of "Hartshorn" on label.  
 Get "Improved," no tacking required.  
 Wood Rollers Tin Rollers

**WOMEN CAN EARN MONEY** or secure useful articles of household furniture, clocks, dishes, kitchen utensils, books, etc., by seeing their friends and neighbors and getting them to subscribe to this paper. Cash commissions allowed on new subscribers. Get us 25 new subscribers at only \$1.00 a year and we will pay you \$15.00 cash.  
**FARM & DAIRY, Peterboro, Ont.**

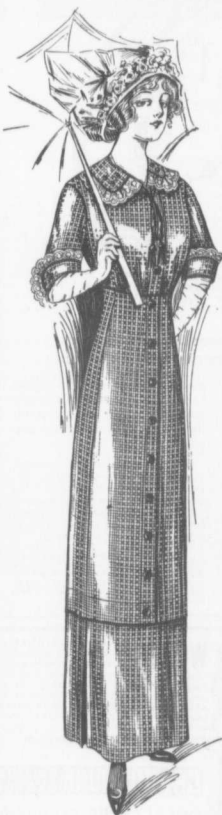
**MAXWELL'S "PURITY" FOOD-CUTTER**  
 Is entirely different from the ordinary food chopper. The barrel is in two closely fitting sections, clamped together by one set-screw. Canadian made machine. Better in quality, capacity and price. Better, better finished, less in price. Five different cutting plates. "MAXWELL'S PURITY" is the only food cutter made in Canada—and in ease, convenience, perfect cutting and durability is superior to anything imported. If your dealer does not handle "Maxwell's Purity" write us.  
**DAVID MAXWELL & SONS, ST. MARYS, Ont.**

**GRAND TRUNK RAILWAY SYSTEM**  
**HOMESEEKERS EXCURSIONS**  
 TO  
**Western Canada**  
 April 2nd, 16th and 30th and every second Tuesday thereafter until Sept. 17th, inclusive. Winnipeg and return, \$48.00. Edmonton and return, \$42.00. Tickets good for 60 days. Proportionate rates good to other points in Manitoba, Saskatchewan and Alberta. Tickets will also be on sale on certain dates via Sarnia and Northern Navigation Company.

**LOW RATES TO PACIFIC COAST**  
 Tickets on sale daily until April 15th.  
**SETTLEMENTS ONE-WAY TICKETS**  
 Manitoba, Saskatchewan and Alberta, on sale every Tuesday and March and April.  
 Full particulars and ticket Grand Trunk Agent or write District Passenger Agent, Toronto.



**Pallisters**  
LIMITED  
TORONTO.



## Have You Seen Their Catalogue of Spring Styles?

This is a Sample of What  
They Are Doing  
This Dress Made of  
Imported Shepherd  
Check Serge  
**For \$4.50**

It is up-to-date in every detail, **STYLE, WORKMANSHIP** and **FIT**, and unbeatable value. Designed with an eye to service, and is neatly trimmed with Val lace on collar and cuffs, the slightly high waist line is defined with a piping of black satin. At each side knee below there is an inverted pleat of black Panama, and the front is ornamented with silk buttons. Made for small women or girls 14, 16, or 18 years. Lengths 33, 35, 37.

**Delivery Paid to Your Home for \$4.50**

Write for a sample of the material and compare the value.

A post card brings our **Spring and Summer Catalogue**, telling you all about our **Guarantee and Free Delivery System**.

Write for it today.

**Pallisters**  
LIMITED  
TORONTO.

### The Acquisition of Riches

To get rich at all hazards, and to get rich quick if possible seems to be the object to which most men are bending their energies nowadays. Even

"The humble man out yonder who is working in the ditch,

Has the hope within him hidden that some day he may be rich;

And forgetting all the seasons that so foolishly were spent,  
He keeps hoping he may profit by some lucky accident."

If it were not so, many a man who is now able to prey upon the credulity of his fellows would be compelled to seek other employment. The chief post office inspector of the City of New York reports that last year "Members of the Suckers' List" lost \$77,000,000 investing in the get-rich-quick schemes; and it is safe to say that all the "suckers" were not caught on the other side of the line. The man who goes through life "taking a flyer" at this and that under the impression that he will some day "strike it rich" is in 999 times out of 1,000 only wasting his money and making rapid preparation for an old age of humiliation and penury. The sooner he awakens to the fact that there is no certain short cut to riches, and that the "lucky accident" does not happen to one in one thousand,

the better it will be for himself and his family.

The only safe plan to adopt, if he hopes to have a competency in his old age, is to live within his income and to systematically lay up something from his earnings no matter how small the amount may be. If he is living beyond his means he should keep in mind Macomber's statement, which was something like this: "Income, 20 shillings, expenditure 20 shillings and 6 pence, result misery; income 20 shillings and 6 pence, expenditure 20 shillings, result happiness."

If he cannot do more, he should make absolutely certain of an old age of comfort and happiness, which he may do if he will avail himself of the opportunity presented by the Canadian Government Annuity Act, in regard to which information may be obtained at any post office or on application to the Superintendent of Annuities, Ottawa. There is no other plan for the purpose, which will give him anything like the same return. So long as his present permanent abode is in Canada, whether he is naturalized or not, he is eligible to make the purchase.

When next broiling chops, season them before putting over the coals. Then put them on a piping hot platter and pour over the chops a sauce made of melted butter and lemon juice.

## The Premier Cream Separator



Satisfaction guaranteed to every purchaser. Thousands of satisfied users speak in highest praise of the

**"Premier"**

The Machine That Appeals to you at Sight

Be sure you look into the merits of the **"Premier"** before you buy a Cream Separator. Will be sent to your farm and demonstrated free of charge. Just write us. We are the makers and guarantors. Address:

### The Premier Cream Separator Company

659-661 King St. West,  
Toronto, Ont.

199 Princess St.,  
Winnipeg, Man.

147 Prince William St.,  
St. John, N.B.

# RUSSELL'S SECOND ANNUAL SALE MAY 30, 1912

DECORATION DAY

Every animal guaranteed without a Blemish

100 Head of Officially Tested Cows or daughters of officially tested cows will be sold. No Males.

If you do not find something in the sale, you will have another hundred or more to choose from. Every animal on the farm for sale.

**T. H. Russell, Geneva, Ohio, U. S. A.**

This is not a Consignment Sale but every animal is owned by me

OLD DOM

Capable of Irish maid Parties.

Apply now, 1000 Street, Toronto, Ont.

See your friends in Farm and

This Must P

A MAN tried to find it was a fine horse. But about the man. And I didn't know the man very well either. So I let him I wanted to try the horse for a month. He said "All right" but my horse first, and I'll give you a hundred dollar money if the horse isn't all right."

Well, I didn't like that. I was afraid the horse wasn't "all right" and that I might have to whistle for my money. If I once parted with it. So I didn't buy the horse although this set me thinking.

You see I mail "100 Gravity" Washers. I think about my thought about my man who owned. But I'd never wouldn't write to me. So, thought I, let people try it a month, before as I wanted to do. You see I will mail. I have sole way.

Now, I know Washer will do clothes, without in less than half washed by hand. I know it will dirty clothes in other machine even without wearing. Our "100 Gravity" work so easy that most as well as don't wear the great buttons the do.

It just drive as the three of the night. So, said I to my "100 Gravity" Washer man to do with wait for people to and I'll make good. Let me send you on a month's freight out of my don't want the machine a month, I'll send you. So, sure, I'll

Isn't it prove washer must be. And you can't save for you. It is a few months, clothes alone. At cents to 75 cents washwoman's wages. After the machine after the pay for it out of your 50 cents. You save one week till cheerfully, and I until the machine. Drop me a line, you, a book about Washer that wash. Address me to P. Manager, 1000 West Toronto.

## OLD COUNTRY DOMESTICS

Capable Scotch, English and Irish maids. Also Danish girls. Parties arriving weekly.

Apply now. The Guild, 71 Drummond Street, Montreal or 47 Pembroke St., Toronto.

See your friends about subscribing to Farm and Dairy.

## This Washer Must Pay for Itself

MAN tried to sell me a horse once. He said it was a fine horse and had nothing the matter with it. I wanted a horse. But, I didn't know anything about horses.

And I didn't know the man very well either. So I told him I wanted to try the horse for a month. He said "All right," but I must give him \$100 for the horse. I said "I'll give you \$100 if the horse isn't all right."

Well, I got the horse. I liked it very much. I was afraid the horse wasn't "all right."

So, I thought I, it is only fair enough to let people try my Washing Machines for a month, before they pay for them, just as I wanted to try the horse.

Now, I know what our "1900 Gravity" Washer will do. I know it will wash the clothes, without wearing or tearing them. I know that half the time they can be washed by hand or by any other machine.

It does it will wash a tub full of very dirty clothes in six minutes. I know no other machine ever invented can do that, without wearing out the clothes.

Our "1900 Gravity" Washer does the work as well as a strong woman, and it doesn't wear the clothes, fry the edges nor treat butters the way all other machines do.

It just drives soapy water clear through the throes of the clothes like a force pump might. I said it to myself, I will do with my "1900 Gravity" Washer what I wanted the man to do with the horse. Only I won't wait for people to ask me. I'll offer first, and I'll make good the offer every time.

Let me send you a "1900 Gravity" Washer on a month's free trial. I'll pay the freight out of my own pocket, and if you don't want the machine after you've used it a month, I'll take it back and pay the freight too. Surely that is fair enough, isn't it?

Don't miss it! Prove that the "1900 Gravity" Washer must be the one that says "I let you." And you can pay me out of what it saves for you. It will save the whole cost in a few months. In winter and tear on the clothes alone. And then it will save 50 cents to 75 cents a week more, if you keep the machine after the month's trial. I'll let you pay for it out of what it saves you. If it saves you 60 cents a week, send me 50 cents a week till paid for. I'll take that cheerily, and I'll wait for my money until the machine itself earns the balance. Drop me a line and I'll send you the money and book about the "1900 Gravity" Washer that washes clothes in 6 minutes. Give me your name, address, and a check. Manager, 1900 Washer Co., 357 1/2 Yonge St., Toronto.



**"I Can Get an Extra \$25 for That Mare of Yours"**  
You simply can't afford not to have an Independent Telephone on the farm. With an Independent Telephone, you know what prices are before you sell.  
War scares—the death of a crowned head—financial depression—all affect the market, and send prices up or down. You have got to be sure because it is too late after you ship.  
The farmer who has his Independent Telephone has the world's market at his call. Buyers and commission merchants call him up. Friends put in orders with possible customers. He hears of the money-making chances, because his telephone is instant and handy.

But the money value is only ONE value of your **STROMBERG-CARLSON** Independent Telephone

**SATISFACTION GUARANTEED OR MONEY REFUNDED**  
Have long found it difficult for the doctor, if one of the children should be taken ill to signal. Or if your dog or cat should get sick? Or if you should get into the house or barn caught in a snow storm? Or if you should get in—or any other serious emergency?

This is the real value of the Independent Telephone—the instant realization in times of emergency of the peace and safety which it brings to the home. It is the peace and safety which it brings to the home. It is the peace and safety which it brings to the home.

**STROMBERG-CARLSON** TELEPHONE MANUFACTURERS, 17 Toronto Street, TORONTO

## CANADIAN PACIFIC HOMESEEKERS' EXCURSIONS

TO Manitoba, Saskatchewan, Alberta

Special Trains leave Toronto 2.00 p.m. on APRIL 2, 16, 30 MAY 14, 28 JUNE 11, 25 JULY 8, 22 AUG. 6, 20 SEPT. 5, 19

Second class rates from Canadian points to principal Non-tourist points at

**LOW ROUND-TRIP RATES** Winnipeg and return \$34.00; Edmonton and return \$42.00. In other points in proportion. Ticket good to return within 60 days from date.

**TOURIST SLEEPING CARS** through to Edmonton via Saskatoon, also to Winnipeg and Calgary via Main Line on all excursions. Comfortable berths, fully equipped with bedding, can be secured at moderate rates through local agents.

Early application must be made. **ASK FOR HOMESEEKERS' PAMPHLET** containing rates and full information.

Apply to nearest C.P.R. Agent or M. G. MURPHY, Dist. Pass. Agent, Toronto.

**ONLY DIRECT LINE NO CHANGE OF CARS**

and Allfall, Red Glover, Timothy and Ashler.

Have the best grades for sale at right price. Call and inspect my stock, or write G. A. GILLESPIE, PETERBORO, ONT

## 95 AND UPWARD

### AMERICAN SEPARATOR

**THIS OFFER IS NO CATCH.** If it is a good proposition, it is so. It is a good proposition, it is so. It is a good proposition, it is so. It is a good proposition, it is so.

**AMERICAN SEPARATOR CO. BAINBRIDGE, N.Y.**

## The Upward Look

### Are We Thankful?

In everything give thanks, for this is the will of God in Christ Jesus concerning you.—1. Thessalonians 5:18.

Most of us have had the experience of performing kindnesses for people, sometimes at considerable inconvenience to ourselves, only to have our efforts on their behalf receive little or no thanks and it may be nothing but words of resentment.

When this has been our lot we are prone to conclude that such people did not deserve to receive the assistance we rendered them. Yet most of us are just like these people. We are constantly receiving blessings from God, and because we have become so accustomed to them we seldom or never think to render thanks for them. When trouble comes we are quick to fly to God for help. When it has passed we are prone to forget to thank Him from the bottom of grateful hearts for His answers to our petitions.

The feeling of gratitude is an attitude of mind that may be acquired. When once we possess it it gives us a Midas touch by means of which we are enabled to convert even our troubles and disappointments into causes for rejoicing and so to do even as we are instructed in our text, give thanks for everything.

A lack of gratitude in times of affliction is a more or less direct act of rebellion or resentment against God. It is caused by our failure to believe, as firmly as we should, that He loves us and that when He sends trouble it is intended for our good just as gold has to pass through fire to be refined. At such times it will help us to remember the words of the old hymn:

"When through fiery trials thy pathway shall lie,  
My grace, all-sufficient, shall be thy supply,

"The flames shall not hurt thee, I see;  
thy design,  
"Thy dross to consume and thy gold to refine."

When once we have learned to see that our trials and reverses, if we but strive in the right spirit by striving to read God's purpose for us in them, are the means by which we can advance to higher and better planes of living and thinking, we have discovered one of the greatest secrets of Christian living, for as the familiar saying has it:

"It is easy enough to be pleasant,  
"When life flows along like a song,

"But the man worth while is the one who will smile  
"When everything goes dead wrong."

True trust in God and in His love for us enables us to be thankful even when troubles surround us. It is then that the true strength or weakness of our love to Him stands revealed. An indication of our love is always afforded by our sense of gratitude. When we fall to have a deep sense of gratitude to God we fall short in one of the essentials of Christian living. Let us learn therefore to give thanks and, as Paul puts it, to "rejoice evermore.—1. H. N.

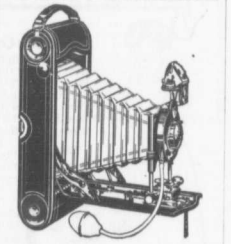
### Household Suggestions

Eggspoons that are stained should be rubbed with damp salt before polishing.

After peeling apples drop them into cold water. This will prevent them becoming discolored.

Flowers with woody stems will last much longer in water if the stalks are scraped for about three inches up.

If it isn't an Eastman, it isn't a Kodak



The convenience and simplicity of the

## KODAK

as compared with a plate camera would make it worth while even if the pictures were no better—but they are.

Kodaks load and unload in daylight with film cartridges that weigh ounces when glass plates weigh pounds.

Kodak Films are superior to plates for hand camera work, not merely because they are light and non-breakable, but also because, chemically they are made to exactly meet the harsh lighting conditions which the amateur encounters.

By the Kodak system no dark-room is required for any part of the work, not even for developing as anybody can, without previous experience, develop films perfectly with a Kodak Film Tank, and get better negatives than are possible by the old dark-room method.

The Kodak system gives the amateur the widest possible latitude in the finishing of his pictures: He may use the daylight tank system, the dark-room method or mail his films to some professional finisher. It's just as he chooses.

Kodaks \$5.00 and up. Catalogue free at the dealers or by mail.

CANADIAN KODAK CO., LIMITED TORONTO, CAN.



## Standard Gasoline Engine

Every one sold on a strong guarantee. Ask for Twed's Closets, a big catalogue of engines.

LONDON CONCRETE MACHINERY CO., Dept. B LONDON, ONT.

Largest Makers of Concrete Machinery in Canada.

## Have City Conveniences

Replace the pestilent, draughty, dangerous and offensive out-of-door closet with an in-door closet which requires no sewer, no plumbing, and no flushing system. Have city conveniences in your home. Safeguard family health by installing a

### "Twed" Closet

**Sanitary and Odorless**  
"Twed" Closets can be installed in the bath room, cellar, or any other convenient place in doors, merely requiring to be connected by a pipe for ventilation with a chimney. "Twed" Liquid Chemical, used in connection with "Twed" Closets, kills all odors and disinfects. Many hundreds of "Twed" Closets have been sold in Canada. Send for illustrated price list.

**STEEL TROUGH AND MACHINE CO. LIMITED** Dept. 101 **TWEED, Ont.**

**"NEW CENTURY" WASHER**

**Let the New Century Do Your Clothes Washing**

It goes right after the dirt and removes every trace without the slightest injury to the most delicate fabric—and "SO EASY!"

Ask any good dealer to demonstrate how the New Century saves time and strength. Look at the springs that do half the work and the ball-bearings that make it run "SO EASY."

Notice the Rust Proof shaft that makes the machine rigid and lasting, and also the Anti-Warp rust-proof steel ring sprung into groove inside tub. These are unique features.

This machine pays for itself in the clothes it saves. Ask for "Aunt Salina's Wash Day philosophy"—an interesting booklet showing many ways of lightening work on wash day. A-1-12

**GUMMER-DOWSWELL**  
HAMILTON, CANADA, LIMITED.



**Marketing Dairy Butter**

J. Michael, Milwaukee, U. S. A. No one can secure a good price for farm made butter by selling it to country or village grocers. Butter must be sold to consumers direct or to high class city grocers, hotels, restaurants, etc. Anyone located within a reasonable distance of a town or city, should sell the butter direct to the consumer.

For fancy trade, one-pound prints wrapped in parchment paper are the most popular. These prints are made with a small hand printer, which should have the dairyman's monogram cut into it. The imprint of the monogram in the parchment serves as a guarantee of its genuineness.

It is also desirable to have some neat lettering on the parchment wrapper, such, for example, as Fancy Dairy Butter, Cold Spring Dairy Butter, Golden Jersey Butter, etc. Prints must be kept cold to preserve their attractive rectangular appearance. Remember the best prices for butter are realized by selling it direct to the consumer.

place to place and the bench should be long enough to hold at least two tubs.

The tubs used for laundry work should have faucets so that they can be emptied easily; and the board should not be used except for pieces that have become particularly soiled. Do not wash without plenty of hot water and soap. It does no good to rub clothes through cold dirty water. They will look gray and dingy after the work is done and the time and energy expended in the work will be worse than wasted.

If there are heavy pieces like men and boys' overalls in the wash, have a stout brush to scrub them with. This is much more effective than rubbing and does not require so much effort. It is a great help to put such pieces to soak in hot soap water before trying to wash them.—Indiana Farmer.

**Opportunity on the Home Farm**

Is the larger life better? It is probably true that at some time in the life of every boy born in the country there comes this question. The larger life to him lies away from the land and within the confines of a city. The lad may love the land, but he is ambitious; he would be "big"; he would make his mark. He frets for fame. He hungers after honors and would make money—and a name. On the other hand is home. He is loath to leave. His heart is here, and here it was happiness. He would stay if only opportunity, busy he be-

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**Take A Handful Of "St. Lawrence" Sugar Out To The Store Door**

—out where the light can fall on it—and see the brilliant, diamond-like sparkle the pure white color, of every grain.

That's the way to test any sugar—that's the way we hope you will test



**Compare it**

with any other sugar—compare its pure, white sparkle—its even grain—its matchless sweetness.

Better still, get a 20 pound or 100 pound bag at your grocer's and test "St. Lawrence Sugar" in your home.

THE "ST. LAWRENCE SUGAR REFINING CO., LIMITED, MONTREAL, 67

**Wash Day Conveniences**

By Margaret Whitney.

Any housekeeper who does her own laundry work should have as good machinery to work with as our sub-band for tilling his ground or harvesting his crops. A man might just as well think of getting in the hay crop from a 30-acre meadow as for his wife to expect to do her week's wash with a board, and wring every piece by hand. A man's time is too valuable to waste over methods our grand-parents employed and his wife's time is equally valuable and worth economizing.

**TWO THINGS WE HAVE.**

A good washing machine and wringer are necessary articles in every house and as most men buy such things for their wives or encourage them to make such purchases we will suppose that every housekeeper is supplied with a machine and wringer. But there are other things that will be found to be great helps if they are given a trial.

One is a wash bench that has rollers on the legs and which can be easily pushed across the floor instead of having to be carried from place to



**A Farm Home Worth While**

One of the good friends of Farm and Dairy in Peterboro county is Mr. Sandy Matchett, whose fine farm home is here shown. Mr. Matchett's house is of squared stone; a substantial style of house that looks well and lasts long.

—Photo by an editor of Farm and Dairy. lives, in the city, could call a way out here in the country, whose charm and color he has cherished from childhood. When comes the rush of those ideas and the conflict of those opinions he little dreams that the end of the rainlow may be on father's farm; that the promised land is perchance only a mirage. He may go to the city and he may succeed, but when success, fame and honor come, if come they do, they will bring less of satisfaction than was once anticipated. The larger life loses, and often it disappoints. The boy who stays on the farm and becomes a leading citizen of the community may often wield a wider influence and get more of the good things of life than would have come to him in the city. Yes, and the larger life—bigger in opportunities, rewards and final satisfactions—may be lived close to the soil.—W. L. Nelson, in Breeders' Gazette.

**An Every-Day Creed**

I believe that work is the best panacea for most ills, especially those of the mind.

I believe in fun and laughter. I believe in the beauty of flowers, sunsets and mountains; in the music of birds and brooks.

I believe there is a bright side to everything.

I believe in human kindness. I believe that an ounce of frankness and explanation is worth a pound of repentance and forgiveness.

The Machine that is different from all others.

**THE "MELOTTE"**

Has the Largest Sale in the British Empire.

**'Every Melotte Guaranteed by Us**

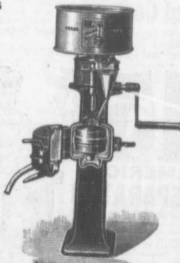
The "MELOTTE" has replaced many thousands of other makes of Cream Separators, and is always purchased by those who know its value.

**The Reason Why:**

Lasts Longest. Does its work best. With least power and gives genuine satisfaction. Therefore the "MELOTTE" is the cheapest cream separator to buy.

**For Proof Ask a Neighbor**

Names of satisfied users in your neighborhood given you for the asking. Write us.



**R. A. LISTER & CO., LIMITED**

197 Princess St., Winnipeg, Man.

58-60 Stewart St., TORONTO, ONT.

82 Water St., St. John, N. B.

**WEL**  
THIS  
ONE DYE  
CLEAN and  
NO chance of using  
has to be used.  
Dyeing. FREE Col  
The Johnson-Mac

**A Dairy Necessity**

Mrs. J. M. Little, Hulton Co., Ont.  
I wish to put in a good word for one of the smallest instruments that we use in our dairy, but one that has a great big influence in determining the quality of butter that we make. Thermometers have always been used in home dairies, but ours are somewhat in advance of the style used by our grandparents. For instance, our grandmothers did not need to spend time worrying about the temperature of the cream because they were able to tell just when it was ready to churn by inserting the index finger. They did not care about the number of degrees, they just knew to a certainty whether the cream was right to churn or not.

The great advantage over present methods is that they were never in serious danger of breaking their thermometers. The only way they could lose them was to incidentally get them in the way of the chopping knife and that did not happen very often, while in our case, the thermometer quite frequently is either lost or broken. But the kind of butter that we produce nowadays with our thermometer thermometer leads me to advise everyone who is trying to make butter at home and has not yet a thermometer to buy a 50-cent dairy thermometer the very next time they go into town.

**Washing Dairy Utensils**

Mrs. E. Fuller, Halifax Co., N. S.  
Woman's desire for cleanliness has overcome many disabilities in poor equipment in the making of home dairy butter. It is well to have a properly equipped dairy, but if we lack in equipment but adhere closely to the cardinal principle of cleanliness we will overcome many of our difficulties in producing high class dairy butter.

The separator parts, and other dairy utensils that I have seen by many farms are really a disgrace to the housewife. I have seen separator bowls that looked more like wash pans. The whole trouble was that the first wash water used was too hot. This coagulated the albumen in the milk which formed a hard white covering over the metal and eventually discolored it. When washing my dairy utensils I first use lukewarm water to rinse off the milk, or in summer I frequently use cold water. The next water is fairly warm and I end up by scalding all utensils.

**Well, Well!**

THIS is a HOME DYE that ANYONE can use



I dyed ALL these DIFFERENT KINDS of Goods with the SAME Dye. I used

**WELL**

ONE DYE FOR ALL KINDS OF GOODS

CLEAN and SIMPLE to Use.

NO chance of using the WRONG Dye for the Goods. All colors fast. All colors bright. All colors true. FREE Color Card and STORY Book No. 1. The Johnson-Nicholson Co., Limited, Montreal.

There are several things I have found we should not do in cleaning the dairy utensils. For instance, I would no longer put up with a wash rag in my dairy room. Unless boiled after every use, a rag will hold bad odors and distribute bacteria. We find that brushes are much more satisfactory in that they get into all the corners and are very easily cleaned. Trying with a towel is another thing that should not be done, unless absolutely necessary. If plenty of scalding water is used I find that the metal will retain enough heat to dry off the water. If the hot water is for any reason not available, I use a towel, but I do not make a practice of having a towel handy as this only increases the temptation to use it.

The dealer in Halifax who has taken my butter for years says there is one flavor that he has frequently noticed in home dairy butter, but never in mine. That is the soapy flavor. I never use any dish that either butter or milk is likely to touch. Prepared powders (I use Star ammonia), are better cleaners than is soap and leave no bad flavors behind them. I always sell my dairy butter at a premium and believe that strict cleanliness has the most to do with the superior quality with which my dealer credits me.

**Influence**

Every person exerts an influence; it may be for good, or it may be for evil, but as sure as we live, we all have an influence. We may not be cognizant of it, but, our influence is silently doing its work, and the thought that should concern us most is, the kind of influence we ourselves exert, and that which surrounds us.

Much as we think we are wearing the web of our own lives, we ought not to forget that much of it is made up of threads obtained by the influencing of our surroundings.

A young man leaves the home of his childhood for the purpose of taking his place among the men of the world, and, too often, he seeks the association of those whose influence is sure to drag him downwards, rather than those whose lives would influence him for good, and tend to inspire, lead and develop him along right lines.

Why, is life with young men, so often, a failure? The answer is too often found in the fact that our young men start life wrong! He finds himself surrounded with both good and evil influences, and as he has two natures within himself, warring against each other, he allows the evil nature to predominate, hence he finds himself in the way of and associates with those whose influences drag him downwards. True, he has influences on the other side, which would lead him aright, but he fails to put himself in their reach, hence, they have no power over him, and the evil influences prevail, and slowly, but surely, they drag him down, and his life proves a failure.

The active, vigorous, young man of to-day looks forward to time, when he expects his Creator to measure out to him, not sufficiently heeding to-day, while the man of mature years looks back upon the past; views with alarm and astonishment his mistakes in life, and prays God to give him more wisdom for the future. Young men! Listen and profit by the mistakes of your fellows; rather than allow them to draw you by their unhallowed influence into wrong doing.

Bo men! Be gentlemen! Don't be satisfied with being an ordinary young man! But seek the fellowship and companionship of those whose association and influence will put them on the path of rectitude and right.

**SPECIAL PATTERN SERVICE**

We realize the great interest that all of our readers take in the new spring styles, and have therefore made arrangements whereby we will be able to give many more patterns in Farm and Dairy than usual during the next few weeks. These will illustrate many of the attractive spring styles. Should you wish patterns other than you see in Farm and Dairy, you can write us and we'll do our best to get them for you. When ordering patterns kindly be sure to give name and address, size and number of pattern desired. Address: Pattern Dept., Farm and Dairy, Peterborough.

**GIRL'S DRESS, 7342**



For the 6 year size will be required 3.54 yards of material 27, 2.34 yards 36, 2.14 yards 44 inches wide with 14 yard 27 for the trimming. This pattern is cut in sizes for girls of 4, 6 and 8 years of age.

**HOUSE JACKET, 7350**



This pattern is cut in sizes 34, 36, 38, 40, 42 and 44 inch bust measure.

**SURPLICE WAIST, 7351**



This pattern is cut in sizes 34, 36, 38 and 40 inch bust measure.

**CHILD'S KIMONO SAKQUE, 7353**



For the one year size will be required 7.8 yard of material 27 or 36, 3.4 yard 44 inches wide. This pattern is cut in sizes for children of 6 months, 1 and 2 years.

**INFANT'S WRAPPER, 7356**



To make the wrapper will be required 3 yards of material 27, 2 yards 36 or 44 inches wide with 3.6 yard 27 for the collar. This pattern is cut in one size only.

**BOY'S SUIT, 7361**



This pattern is cut in sizes for boys of 4, 6, 8, 10 and 12 years of age.

**SIX GORED SKIRT FOR MISSES AND SMALL WOMEN, 7346**



This pattern is cut in sizes for misses of 14, 16 and 18 years of age.

**SEMI-PRINCESSE DRESS FOR MISSES AND SMALL WOMEN, 7388**



This pattern is cut in size for misses of 14, 16 and 18 years of age.

Such little dresses as this one are the prettiest possible for the little girls. They are charming in their simplicity and they suit all childish materials. This one can be made with or without the revers and with or without cuffs.

For the 6 year size will be required 3.54 yards of material 27, 2.34 yards 36, 2.14 yards 44 inches wide with 14 yard 27 for the trimming. This pattern is cut in sizes for girls of 4, 6 and 8 years of age.

Simple house jackets are always needed. This one takes pretty and becoming lines and is adapted to many different materials. In the illustration it is made of Scotch 8 and 11 trimmed with bands of wash silk.

For the medium size will be required 3.12 yards of material 27, 2.34 yards 36, 2.14 yards 44 inches wide with 34 yard 27 for the trimming.

Here is a blouse that can be made very dainty and very dainty or absolutely simple as it is treated in one way or another. In the large view it is shown made of bordered marquisette and with chemisette of tucking and under-sleeves of all-over lace.

To make the blouse as illustrated will be required 3 yards of plain material 27, 1 yard 36 or 44 inches wide with 4 yards of bordered tucking and 5.8 inches wide, 1.2 yard of tucking and 5.8 inches wide for the puffs; to make with 7.8 yard 18 inches wide for the chemisette and under-sleeves. This pattern is cut in sizes 34, 36, 38 and 40 inch bust measure.

The one-piece kimono saques are very pretty for tiny children. They are simple to make, they are easily laundered and they are very dainty in effect.

This one is made in real kimono style and the edges are tied together to form the sleeves and become the arms.

For the one year size will be required 7.8 yard of material 27 or 36, 3.4 yard 44 inches wide. This pattern is cut in sizes for children of 6 months, 1 and 2 years.

Just such little wrappers as this one are the best possible for the tiny children. The sleeves and the body portion are cut in one, consequently there are no seams to fret the delicate little arms, and the wrapper is thoroughly comfortable.

To make the wrapper will be required 3 yards of material 27, 2 yards 36 or 44 inches wide with 3.6 yard 27 for the collar.

This pattern is cut in one size only.

The blouse suit is always a satisfactory one for the younger boys. This one is quite novel for the blouse gives a double breasted effect and can be made either with or without a shawl collar while the sleeves can be made plaited or gathered.

For the 10 year size will be required 5.74 yards of material 27, 4.4 yards 36, 2.74 yards 44 inches wide with 1.2 yard 27 for collar and 5 yards for trousers.

This pattern is cut in sizes for boys of 4, 6, 8, 10 and 12 years of age.

Skirts that are made with plaits at the seams, providing flare while at the same time straight lines are preserved, are among the newest.

This one shows a plait at each side while the back gore is arranged to give the effect of a box plait.

For the medium size will be required 5.7 yards of material 27, 3.2 yards 36 or 44 inches wide when material has figure or nap; 3.12 yards 36, 2.34 yards 44 when material has no figure or nap; the width at the lower edge is 2 yards.

This pattern is cut in sizes for misses of 14, 16 and 18 years of age.

This semi-princess dress is just as charming as it can be. The lines are all girlish and simple, yet it is absolutely distinctive and smart.

It can be made from washable material with equal success, and from any two that contrast successfully.

For the 16 year size will be required 5.34 yards of material 27, 4.4 yards 36, 3.12 yards 44 inches wide with 1.18 yards 27 inches wide for the waist and 1.2 yard 27 for the chemisette and under-sleeves.

This pattern is cut in size for misses of 14, 16 and 18 years of age.



# Farming

has become a specialized business

It's no longer a "hit-or-miss" occupation, where "any old way" is good enough. Farmers are buying pianos and automobiles as never before. They're *living* as well as *working*.

The farmer has learned that it *pays* to employ progressive methods. That's why he is ever ready to receive helpful suggestions for improving his crops, his land and his home. It's also the reason that more than fifty thousand Canadian farmers are enthusiastic about our handsome book,

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It isn't a catalogue, nor an argument for you to buy something. It is clearly-written, interesting, profusely illustrated. It describes the various uses to which concrete can be put on the farm. Not theories, but facts, based on the *actual experience* of farmers all over the continent. It is the most complete book on the subject ever published, fulfilling the

purpose behind it, which is to help the farmer take advantage of concrete's possibilities. The list of subjects covers every conceivable use for concrete on the farm. The book's actual value to you will far exceed the list price of fifty cents, but if you will send us your name and address at once we'll be glad to

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LIMITED**

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**AVONDALE FARM**

Artur C. ...  
We offer bull ...  
set of tested dam ...  
Johanna, Colantha ...  
out of Colantha ...  
sic Korodyka, at ...  
year-old dam.  
Also BROWN D ...  
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**GREATEST VIEW**

Offers a Bull, bot ...  
for service, sire ...  
and Factor Boy ...  
daughter of Heng ...  
side. Also, Bull ...  
weeks old, sire b ...  
Coan, half-brothe ...  
plan B.P. cow, ...  
milk and 1,060 lb ...  
dam milking up ...  
prices moderate.  
**ARCHIBALD FAR**

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Holstein Bull 8 ...  
200, 3 years old; ...  
O.L.C.; dam, Ros ...  
particulars writ ...  
**W. GRAHAM,**

**FOR HOLSTEIN**

Bull and, born ...  
out dams average ...  
days. Another B ...  
cow in Canada of ...  
of butter in 7 day ...  
10, dam, daughter ...  
out with official ...  
days of 14.90 lbs ...  
year-old stock ...  
David Caughell.

**AUCT**

The Lakewood St ...  
sale at their barn ...  
Monday, March 2 ...  
stein-Friesian. O ...  
Cypriada's Mare ...  
Columbus, Ohio, ...  
which will be be ...  
also.  
Read in your ...  
arrange to attend ...  
**F. F. OSLEY,**

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Holstein Friesian Assn

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For Sale—Bull C ...

old at farm high ...  
of these won first ...  
secor" in dairy ...  
The others are eq ...

Also a few choice ...  
yearling, bred to ...  
up, a 1-year-old ...  
three first prizes ...  
great bull is also ...  
three and five y ...  
Calamity straits, ...  
grade yearling an ...

Write or come an ...  
**GUY MONTLE,**

**AVONDALE**

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Bull, ...

sire's ...

aver ...

in 7 ...

**BROWN BROS.**

**RIVERVIEW**

Offer bull calve ...

STREY BY KING ...

whose 3 nears ...

is in line. BUTTER ...

lbs. in 30 days ...

breeding, at ex ...

make room.

**P. J. SALLEY,**

## HOLSTEINS AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.  
We offer bull calves, all ages, and all set of tested dams. One is a son of Sir Johanna Colantha Gladi, being a grand son of the Columbia Johanna bred by Tommie Korndyke, and from a 25 lb. three year-old dam.

Also **FOUR DOBBER SHEEP** and **YORK HIRSH PIGS.**

Address all correspondence to  
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Brookville, Ont.

## HOLSTEINS

If you are wanting **HOLSTEINS**, any age, either sex, write to

**GORDON E. MANHARD, Manhard, Ont.**

**GREATEST VIEW HOLSTEIN HERD**  
Offers a Bull, born July 18th, 1911, ready for service, sired by a grandson of DeKoi and Butter Boy 3rd, and from a grand daughter of Hengerveld DeKoi on the dam side. Also, Bull Calves from the same stock. Also, sired by Cora DeKoi Pieter's Cow, half-brother May Echo, the champion R.O.P. cow, with nearly 24,000 lbs. milk and 1,650 lbs. butter in 1 year from a milking up to 65 lbs. at 4 years old. Prices moderate. For particulars apply to **ARCHIBALD PARKS, NAPANEE, ONT.**

## FOR SALE

Holsteins Bull Sir Bonafide De Kol, No. 3 years old; sire, Boutale Pieterje, O.L.C.; dam, Rosa De Kol. For further particulars write to **W. G. GRAMM, BRONTE, ONT.**

**FOR HOLSTEIN BULL CALVES**  
Bull calf, Feb. 2, with four good dams average 27 lbs. of butter in 7 days. Another born May 15; dam first cow in Canada of her age to make 30 lbs. of butter in 7 days. Bull calf born Jan. 10; dam daughter of dam of number 3; dam with official record at 8 years and 12 days of 14.9 lbs. butter in 7 days. Also 1 yearlings. For particulars apply to **David Coughlin, Yarmouth Centre, Ont.**

## AUCTION SALE

The Lakeside Stock Farm will offer for sale at their barns near Bronte, Ont., on Monday, March 26th, 1912, Pure bred Holstein-Friesian Aas. and Registered Guernsey Herds. Col. J. L. Perry, Columbus, Ohio, will conduct the sale, which will be held under cover, rains or no. Read in your names for catalogue and arrange to attend this sale. **BRONTE, ONT. E. F. OSLER.**

Pembred Registered  
**HOLSTEIN CATTLE**  
The Greatest Dairy Breed  
2000 lbs FREE MILKING BUCKETS  
Holstein Friesian Ass., Box 148 Battershoe Vt.

## SUNNYSIDE FARM HOLSTEINS

For sale—Bull Calves from 1 to 9 months from high bred dams, some of which are of these well bred in aged cow classes and sired in dairy test at Sherbrooke Fair. The calves are equally as good.

Also a few choice heifer calves and one yearling, bred to Schilling De Barrington, a 3-year-old heifer which has taken three first prizes at Sherbrooke Fair. This great bull is also for sale. Two cows, three and five years old, some of the Calanthy strain, also a few choice high grade yearling and 3-year-old heifers.

Write or come and see them. Prices right. **GUY IN MONTLE, ROCK ISLAND, QUE.**

## AVONDALE HOLSTEINS

Present offering, Young Bull, fit for service. His dam sire's dam and grand dam average 20-40 lbs. of butter in 7 days. **BROWN BROS., LYN, ONT.**

## RIVERVIEW HERD

Offer bull calves from 1 to 18 months sired by KING HERBELL WALKER whose 1 nearest dams and sister average 19 lbs. BUTTER IN 7 DRS and 12 1/2 lbs. in 30 days from dams of likewise breeding, at exceptionally low figures, to make ready. **P. J. SALLEY, LACHINE RAPIDS, QUE.**

## MARKET REVIEW AND FORECAST

Toronto, Monday, April 1st.—Milder weather has been followed by a most decided improvement in trade. Wholesale merchants report better orders and freed re-strictions.

The trade in agricultural produce is also increasing as orders are coming in more freely in almost all lines. These factories and commission are starting operations all over Eastern Canada.

Prospects indicate a record immigration into Canada this year. Already immigrants are arriving in large numbers. Most of these are of the better class, with some capital to start themselves off in business in this country. Their arrival will have a marked influence on trade.

### WHEAT

What has been changing hands more freely at Canadian centres, due to a stronger demand from foreign markets. There would be a much greater movement if it were not for transportation difficulties, high freight rates and lack of ocean steers. No. 1 Northern is quoted at \$1.12 1/2; No. 2, \$1.10 1/2; No. 3, \$1.06 1/2; Manitoba feed wheat, 70c. Trade in Ontario wheat is quiet and prices nominal—\$5c to 9c in car lots outside.

### CORN

Price tendencies have been upward. The strongest advances have been in Canada. Western and Ontario crops are better in price, but the situation cannot be considered strong. There is a big demand for feed oats from Ontario points. Malting barley is quoted at 90c to 95c; feed, 65c to 70c; oats, C.W., No. 2, 55c; No. 1 extra, 55c; No. 1, feed, 50c; No. 1 feed, 50c; Ontario No. 2, 55c to 60c outside; 47 1/2c to 50c here; No. 3, in less, 47 1/2c; peas, \$1.10 to \$1.25; buckwheat, 75c to 78c; and rye, 81c. Quotations at Montreal are: Corn, \$1.30; oats, C.W., No. 2, 45c; No. 1 extra, feed, 49 1/2c; No. 3, 49c; No. 2 local, 50c; No. 3, 49c; 4, 46c; peas, \$1.55 to \$1.75; barley, \$1.07 to \$1.10; buckwheat, 75c to 78c.

### MILL STUFFS

Mill stuffs are scarce all over Eastern Canada and prices have advanced another dollar in the past week. Manitoba bran is quoted at 82c; shorts, 83c; Ontario bran, 82c; shorts, 82c. At Montreal bran is quoted at 82c to 87c; shorts, 87c, and middlings, 82c.

### POTATOES AND BEANS

Quotations are unchanged. Receipts of English and Irish potatoes are liberal. Dealers quote Ontario potatoes in car lots here at \$1.55 to \$1.60 a bag and \$1.70 out of store. Delaware are 10c more. Old Country potatoes are \$1.50 to \$1.65 out of store and \$1.50 in car lots. At Montreal the market is somewhat limited. Green Mountains are worth \$1.60 to \$1.70 on truck. English and Irish potatoes, \$1.55 to \$1.60.

Beans here are quoted at 22 1/2c to 23.30c for primes and 23.25c to 22.40c for hand picked. At Montreal three-pound pickers are quoted at \$1.15.

### EGGS AND POULTRY

Receipts of eggs are becoming more liberal every day. The Easter demand, however, is keeping the price steady at 24c to 25c for new laid eggs. On the farmers' market the retail price is 25c to 28c. Dealers at Montreal are getting better American eggs as Canadian receipts are not too liberal. The price offered at country points is 25c.

Wholesale quotations on dressed poultry are as follows: Chickens, 15c to 17c; fowl, 15c to 17c; turkeys, 21c to 23c; ducks, 15c to 16c; geese, 15c to 16c. In retail, the retail price for chickens sold at 18c to 20c; fowl, 15c to 16c; turkeys, 25c to 27c; geese, 16c to 18c; ducks, 15c to 16c.

### DAIRY PRODUCE

There is little change in the butter situation. Creamery prints are down 1c, otherwise quotations remain the same. The home-made is increasing slowly, and the abnormally high prices now prevailing cannot last much longer. If prices for cheese, however, hold to the high levels to which may be expected, butter will remain through the season at good profitable prices. Dealers now quote dairy prints at 30c to 32c; creamery prints, 30c to 32c; solids, 30c to 35c; and inferior, 25c to 28c. The retail price for cheddar butter is 35c to 40c. Cheese are quoted at 17c to 17 1/2c for twins and 16 1/4c to 17c for large.

### HORSES

Trade with the west is more lively, and car loads are going forward each week. Quotations are as follows: Heavy drafters,

\$175 to \$330; mod. weight, \$170 to \$310; agricultural, good, \$150 to \$225; fair, \$100 to \$160; delivery horses, \$150 to \$250; drivers, \$150 to \$200; saddlers, \$150 to \$250.

### LIVE STOCK

Choice, well finished Easter cattle were the feature of the recent operations on the live stock market. Liberal receipts from the best Ontario feeders were received on the first of last week, and by the close of the week most of the Easter cattle in the province had been marketed. Prices ranged from \$7.40 to \$9.15 for high quality animals. Competition was keen in spite of an extra large run, as outside buyers were on hand from Ontario and Quebec points. On the ordinary run of cattle, prices are unchanged to a little higher. Good export cattle are on the best basis, but there is also a demand for butcher cattle of best quality. Inferior cattle are not wanted, but values on the class have remained firm. Due to high quotations on choice animals. An average of quotations is about as follows: Butcher cattle, choice, \$6.25 to \$7; med. to good, \$5 to \$6.20; cows, choice, \$4.75 to \$5.50; good, \$4 to \$4.70; com. to med., \$3 to \$4; bulls, \$3.50 to \$5.60; exporters, choice, \$6.25 to \$7.25; feeders, \$3.50 to \$5.50; stockers, \$4.25 to \$5.20; canners, \$2.25 to \$3.25.

Prices on milch cows are steady. Choice, \$50 to \$70; com. to med., \$30 to \$40; springers, \$40 to \$60. The demand for mutton products remains firm. Ewes are quoted at \$5 to \$5.40; hucks and culls, \$4 to \$5; lambs, \$7 to \$8.50; and spring lambs, \$5.50 to \$8.

The strongest feature of the live stock market is the continually advancing price of hogs. Last week's operations show a net gain of 30c. Packers are now paying \$7.75 to \$8.10 for hogs on the market.

Trade has not been as active on the Montreal market as at Toronto. Receipts have been moderate and prices are steady. Best quality steers sold last week at \$7.25; good, \$5 to \$7; and common, \$4.50 to \$5.50. Cows sold at \$3.60 to \$5.75; and bulls, \$2.50 to \$3.25. In small meats, sheep changed hands at \$4.50, and lambs at \$7.25 to \$7.50.

## HOLSTEINS

### FAIRVIEW FARM HERD

Too much money is spent every year for poor bulls. Why not buy a good one? A son of Pontiac Korndyke, Rag Apple Korndyke, and Sir Johanna Colantha Gladi for sale; 1500 head in herd. Come and see them or write.

**E. H. DOLLAR, Heuvelton, N.Y.**

### Auction Sale Notice

I will sell 20 RECORD OF MERIT COWS; 20 RECORD OF PERFORMANCE COWS; (some of these have qualified in both tests.) I will also sell about 20 heifers from my old prize winning stock bull, at my Dispersion auction. **SALE DAY: THURSDAY, MAY 23RD.** Full particulars later. Watch Farm and Dairy for Notice. **THOS. HARTLEY DOWNSVIEW, ONT.**

## DO YOU WANT THIS GRAND YOUNG BULL?

"Coral De Kol's King of the East." This calf is sired by Julia De Kol's Butter Boy, a grandson of De Kol Plus, Canadian champion R.O.P. cow until 1910, and sired by Karel Joseph, whose dam and grand dam have the largest official authenticated records ever made in Holland. This calf has for its dam Coral De Kol's Plus, with record of Butter, 7 days, 22.5; milk, 7 days, 49.00; average, Oct. 4.00. He has also 1/2 half sisters that average 4 per cent fat. This calf is 3 weeks old, two-thirds white and right in every way. Price \$75, shipped to your nearest station. Write immediately. This 'A' will only appear twice.

### Valentine Bros.

Violet, R. M. D., Ont.

### LAKESIDE DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dams; also a few females.

W. F. BELL, BRITANNIA BAY, ONT.  
Ontario Bell Phone.

## For the Land's Sake use Bowker's Fertilizers

They enrich the earth and those who till it. By the use of a good fertilizer, any farmer can add greatly to his profit through raising bigger crops. He can make each of his acres produce more, or he can cultivate fewer acres, and still produce as much as he is getting now, but with less labor and expense. This is a big item, if hired help is scarce.

We have a fertilizer to fit every crop and every pocketbook. Each one is ready to use, and easy to apply. Our catalogue gives full information and directions. Many years of experience in both Canada and the United States, the best facilities, and prompt service are behind every bag we ship.

If we have no agent near your farm, we want one. It pays to sell as well as use our fertilizers.

Write today for our catalogue and calendar. Both will be sent promptly and without cost. If interested, ask for agency proposition, but write anyway for the catalogue.

**BOWKER Fertilizer Company,**  
77 Lyman St., Buffalo, N. Y.  
Original and largest manufacturers of special fertilizers.



**ABSORBINE**

Will reduce inflammation, swell joints, relieve neuralgia, cure rheumatism, sprains, bruises, cuts, burns, frostbite or any unsightly sore quickly, and you can use it under water. It is the only medicine that you can use on the horse, and is sold in bottles of 50 cents and \$1.00 for bottles at drug stores or by mail. Write for more information. ABSORBINE, J. L. Williams for proprietor, Montreal, Canada. Sold in bottles of 50 cents and \$1.00 for bottles at drug stores or by mail. Write for more information. ABSORBINE, J. L. Williams for proprietor, Montreal, Canada. Sold in bottles of 50 cents and \$1.00 for bottles at drug stores or by mail. Write for more information.

**Money-Making Dairy Farm For Sale**

Adjoining the City of Peterborough, on North boundary, 150 acres, first class Dairy Farm, and has for 35 years been used as such. My old Homestead has been run mainly for the purpose of 68 years. Well watered, good buildings, stone house, water in stable. Accommodates 60 head of cattle and 8 horses. Power line and Telephone lines adjacent.

This is a real money-making proposition for a Dairy Farmer with boys and help of his own. Peterborough is one of the best markets in Ontario. Priced low for quick sale. Write owner.

**JAS. STOTHART, PETERBORO, ONT.**

**Feed the Land— AND It Will Feed You**

Many farmers would get higher interest on their money if deposited in THE SHAPE OF FERTILIZERS IN THE SOIL, than if they placed the money in bank—the interest being paid in increased crops.

When the Canadian farmer becomes sufficiently interested in fertilizers to make his own mixtures at home, it will be a good thing for the farmer and for the country at large.

Fertilize scientifically—study the "VANCO" Book—and reap the benefits in bigger crops.

Make your own Fertilizers, to suit each soil and crop—buy "Vanco" guaranteed chemicals, prepared right here in Toronto, and thus save the heavy duty which must be paid on ready-mixed fertilizers

**MURIATE OF POTASH**—guaranteed 50% actual Potash.

**SULPHATE OF POTASH**—guaranteed 48% actual Potash.

**NITRATE OF SODA**—guaranteed 15% Nitrogen, equal to 18.84% Ammonia.

**ACID PHOSPHATE**—guaranteed 14% to 16% available Phosphoric Acid.

Write for our prices—and also copy of the "Vanco" Book—you'll find it a big help in mixing Fertilizers.

**CHEMICAL LABORATORIES, 148-158 Van Horne Street, TORONTO.**

**OFFICIAL TESTS OF HOLSTEINS FOR FEBRUARY.**

Bessie DeKok Lillith Pauline (18566), at 7y. 2m. 1d. of age; 124.1 lbs. fat, equivalent to 24.35 lbs. butter; 322.44 lbs. milk. Owned by P. J. Sallee, Lachine Rapids, Que.

Netherland Beauty DeKok (5607), at 7y. 2m. 2d. of age; 187.4 lbs. fat, equivalent to 35.42 lbs. butter; 479.4 lbs. milk. Fourteen day record at 2y. 10m. 2d. of age; 35.54 lbs. fat, equivalent to 45.67 lbs. milk. Owned by W. H. Cherry, Garnett, Ont.

Oliver Abbecker Posch 3rd (7326), at 5y. 9m. 23d. of age; 17.344 lbs. fat, equivalent to 21.25 lbs. butter; 510.5 lbs. milk. Owned by Elias Snyder, Burgessville, Ont.

La Honda Princess (9172), at 8y. 4m. 3d. of age; 16.4 lbs. fat, equivalent to 20.54 lbs. butter; 444.8 lbs. milk. Owned by Samuel Diekle, Central Onslow, N. S.

May DeKok Abbecker (8140), at 5y. 7m. 23d. of age; 16.19 lbs. fat, equivalent to 20.13 lbs. butter; 462.4 lbs. milk. Owned by Orrin Strander, Brinston, Ont.

Quora 4th (5377), at 5y. 11m. 27d. of age; 16.11 lbs. fat, equivalent to 20.15 lbs. butter; 515.3 lbs. milk. Owned by H. J. Allison, Chertsville, Ont.

Aaltie 3rd (3145), at 11y. 10m. 6d. of age; 15.41 lbs. fat, equivalent to 19.51 lbs. butter; 586.67 lbs. milk. Owned by M. & W. Schell, Woodstock, Ont.

Eugenie Pauline DeKok (2911), at 4y. 11m. 23d. of age; 14.89 lbs. fat, equivalent to 18.22 lbs. butter; 484.67 lbs. milk. Owned by Joseph Barnard, Brinston, Ont.

Kittie Edler Clothide Bessie Box (669), at 2y. 11m. 23d. of age; 14.29 lbs. fat, equivalent to 17.96 lbs. butter; 392 lbs. milk. Owned by Geo. W. Anderson, Rosmore, Ont.

Mercena's Pride's Beauty (8316), at 7y. 2m. 23d. of age; 13.62 lbs. fat, equivalent to 17.10 lbs. butter; 508.8 lbs. milk. Owned by C. J. Pearce, Ostrander, Ont.

Chacra 3rd (2446), at 5y. 2m. 17d. of age; 13.45 lbs. fat, equivalent to 17.07 lbs. butter; 415.6 lbs. milk. Owned by Wilber C. Proulx, Tillsonburg, Ont.

Pauline Triumf (6445), at 9y. 2m. 12d. of age; 13.58 lbs. fat, equivalent to 17.36 lbs. butter; 494.1 lbs. milk. Owned by George W. Anderson, Rosmore, Ont.

Lula Queen DeKok (10009), at 4y. 7m. 23d. of age; 13.51 lbs. fat, equivalent to 17.14 lbs. butter; 521.43 lbs. milk. Orrin Strander, Brinston, Ont.

Princess D-Kol Howtjitz (812), at 4y. 10m. 23d. of age; 13.51 lbs. fat, equivalent to 17.32 lbs. butter; 402.5 lbs. milk. Owned by I. N. Howe, Crampton, Ont.

Angie Emily (968), at 4y. 4m. 13d. of age; 14.75 lbs. fat, equivalent to 18.44 lbs. butter; 519.1 lbs. milk. Owned by C. J. Uel Diekle, Central Onslow, N. S.

Christabella (949), at 4y. 6m. 27d. of age; 14.74 lbs. fat, equivalent to 18.45 lbs. butter; 519.1 lbs. milk. Owned by C. J. Pearce, Ostrander, Ont.

May Connela Pauline (10012), at 4y. 4m. 15d. of age; 14.58 lbs. fat, equivalent to 17.80 lbs. butter; 553.31 lbs. milk. Owned by M. & W. Schell, Woodstock, Ont.

Duchess Bouteje DeKok (5397), at 4y. 7m. 4d. of age; 13.30 lbs. fat, equivalent to 16.63 lbs. butter; 426.9 lbs. milk. Owned by E. Laidlaw and Sons, Aylmer, Ont.

Verbellie Topsy (8897), at 4y. 6m. 18d. of age; 11.9 lbs. fat, equivalent to 14.87 lbs. butter; 492.9 lbs. milk. Owned by M. & W. Schell, Woodstock, Ont.

Lady May Barouese (9732), at 3y. 8m. 15d. of age; 17.31 lbs. fat, equivalent to 21.64 lbs. butter; 486.2 lbs. milk. Owned by Alvir Wilkinson, Courtland, Ont.

Agnes Evergreen (10339), at 3y. 8m. 15d. of age; 17.27 lbs. fat, equivalent to 21.58 lbs. butter; 500.8 lbs. milk. Owned by R. Lemon, Lynden, Ont.

Blanch Akkrum 2nd (10600), at 3y. 10m. 23d. of age; 16.33 lbs. fat, equivalent to 20.42 lbs. butter; 634 lbs. milk. Owned by C. J. Pearce, Ostrander, Ont.

Pauline Corcoran-Posch (10166), at 3y. 10m. 23d. of age; 15.31 lbs. fat, equivalent to 20.38 lbs. butter; 484.7 lbs. milk. Fourteen day record at 3y. 10m. 15d. of age; 22.45 lbs. fat, equivalent to 40.03 lbs. butter; 896.5 lbs. milk. Owned by H. J. Allison, Chertsville, Ont.

Woodland Queen DeKok (10167), at 3y. 10m. 4d. of age; 14.43 lbs. fat, equivalent to 18.04 lbs. butter; 472.4 lbs. milk. Owned by J. M. Van Patter, Aylmer, Ont.

Lady Posch Pateris (9356), at 3y. 10m. 3d. of age; 13.7 lbs. fat, equivalent to 17.13 lbs. butter; 419.4 lbs. milk. Owned by Elias Snyder, Burgessville, Ont.

Belle Model Johanna 2nd (4225), at 2y. 11m. 24d. of age; 15.65 lbs. fat, equivalent to 19.96 lbs. butter; 384.87 lbs. milk.

Owned by A. C. Hardy, Brockville, Ont. Netherland Beauty Posch (11047), at 2y. 10m. 6d. of age; 16.00 lbs. fat, equivalent to 20 lbs. butter; 485.2 lbs. milk. Fourteen day record at 2y. 10m. 6d. of age; 20.15 lbs. fat, equivalent to 27.69 lbs. butter; 949.1 lbs. milk. Owned by W. H. Cherry, Garnett, Ont.

Daisy Hooker Akkrum (12025), at 2y. 10m. 9d. of age; 14.65 lbs. fat, equivalent to 18.32 lbs. butter; 393.9 lbs. milk. Owned by C. Y. Pearce, Ostrander, Ont.

Rosalind Calamity Abbecker (15075), at 3y. 10m. 24d. of age; 13.69 lbs. fat, equivalent to 17.13 lbs. butter; 422.1 lbs. milk. Owned by Elias Snyder, Burgessville, Ont.

Grace Pledge De Kol (11751), at 2y. 11m. 7d. of age; 12.65 lbs. fat, equivalent to 15.91 lbs. butter; 333 lbs. milk. Owned by Benj. H. Thompson, Boharm, Sask.

Riverview Victoria Ruby (12377), at 2y. 6m. 23d. of age; 12.21 lbs. fat, equivalent to 15.56 lbs. butter; 346.69 lbs. milk. Owned by P. J. Sallee, Lachine Rapids, Que.

Homewood Princess (1374), at 1y. 9m. 23d. of age; 10.94 lbs. fat, equivalent to 13.56 lbs. butter; 347.6 lbs. milk. Owned by John Kaufmann, Cassels, Ont.

Evergreen Keyes (14399), at 1y. 11m. 23d. of age; 11.87 lbs. fat, equivalent to 14.83 lbs. butter; 361.40 lbs. milk. Owned by Geo. W. Anderson, Rosmore, Ont.

Atvondale Lady Pietje DeKok (14020), at 2y. 6m. 13d. of age; 11.35 lbs. fat, equivalent to 14.19 lbs. butter; 310.9 lbs. milk. Owned by A. C. Hardy, Brockville, Ont.

Jewel Pauline DeKok (13322), at 2y. 8m. 23d. of age; 10.94 lbs. fat, equivalent to 13.67 lbs. butter; 322 lbs. milk. Owned by Benj. H. Thompson, Boharm, Sask.

Lettie Hengerveld DeKok (13321), at 2y. 4m. 23d. of age; 10.92 lbs. fat, equivalent to 13.56 lbs. butter; 321.1 lbs. milk. Owned by Brown Bros., Lynn, Ont.

Glenwood's Corinne Howtjitz (13523), at 2y. 4m. 23d. of age; 10.9 lbs. fat, equivalent to 13.63 lbs. butter; 387.5 lbs. milk. Owned by J. N. Howe, Crampton, Ont.

Princess Dixie Hengerveld (14210), at 1y. 10m. 15d. of age; 10.4 lbs. fat, equivalent to 12.95 lbs. butter; 281.25 lbs. milk. Owned by Geo. W. Anderson, Rosmore, Ont.

Eugenie Nannet DeKok (13323), at 2y. 2m. 24d. of age; 10. lbs. fat, equivalent to 12.50 lbs. butter; 370.76 lbs. milk. Owned by Jos. T. Barnett, Currie's, Ont.

Baconess Queen (15291), at 1y. 10m. 24d. of age; 9.5 lbs. fat, equivalent to 12 lbs. butter; 285.75 lbs. milk. Owned by A. Wilkinson, Courtland, Ont.

May Queen Viola (14235), at 1y. 10m. 15d. of age; 9.89 lbs. fat, equivalent to 11.73 lbs. butter; 286.75 lbs. milk. Owned by A. Wilkinson, Courtland, Ont.

Homestead Horrie Calamity (13661), at 2y. 2m. 23d. of age; 9.28 lbs. fat, equivalent to 11.56 lbs. butter; 273.1 lbs. milk. Owned by E. Laidlaw & Sons, Aylmer, Ont.

Evergreen Veleta (13500), at 1y. 10m. 11d. of age; 8.27 lbs. fat, equivalent to 10.06 lbs. butter; 253.84 lbs. milk. Owned by Geo. W. Anderson, Rosmore, Ont.

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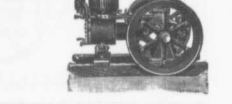
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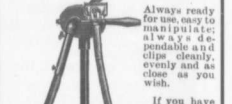
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If you have one horse or twenty this clipper will save your time and money. There is no small first cost and no repair expense.

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Cotton Bags, 25c each

The above brand is our best grade of Seed and complies with the conditions of the Seed Control Act, Gt. Britain No. 1. Prices for lower grades on application.

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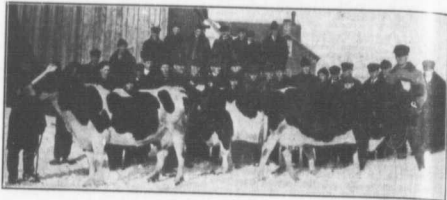
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With Ramsay's READY MIXED PAINTS. RAMSAY'S PAINTS give a quiet attractiveness to your house, which stamps it with a mark of distinction. Ask your dealer in your town.

A. RAMSAY & SON COMPANY, MONTREAL.

**TESTS—SHORT OR LONG**  
Malcolm H. Gardner, DeWain, Wis. I am in receipt of two letters on the subject of testing; one from a young breeder, the other from a breeder who has been testing officially for years. The

time see his way clear to incur the expense of continuing the short-time official tests in the semi-official long-time form. The older breeder thinks that the official short-time test has seen its best day; that it is on the wane; and that unless it



Showing the points of a Good Dairy Cow

A feature of the short course work in agriculture in Carleton county this winter were the trips to breeders' farms to judge the stock thereof. The class is here seen judging some of the fine Holsteins in the herd of M. Fensell of that county.

**FARM DAIRYING** A New Book by Laura Ross  
Price only \$1.35 postpaid. Order through Book Dept., FARM AND DAIRY, Peterboro, Ont.

**MONEY** can be made easily by showing Farm and Dairy to your friends and getting them to subscribe.

young breeder wants to take up test work, but has become unsettled in mind as to the value of the short-time test, because of the criticisms of that form of test by the agricultural colleges and dairymen; while he can not at the present

is supplemented with the long-time test, it will soon be obsolete; and he asks, "Why can not our Superintendent of A. B. see the handwriting on the wall?" I have been up against the test problem for 30 years, have had actual experience with it in all of its phases as a dairyman, as a creameryman, as a bookkeeper, and as Superintendent of Advanced Registry; and as the chivalrous, old miner speaking of the ladies officers, only there were no bad looking women, only some of them were better looking than that there are in the conclusion selfsame. I have come to the conclusion that some of them, being more accurate in gauging the capacity of a cow than others, are more desirable.

# "I want to Tell You a Big Secret of Building"



DEAR FRIEND:

I am sitting here at my desk, thinking how I shall write many people. I am an old man now—70 years old. 50 long years of my life were given over to making a perfect roof for any kind of building (for everybody has to use roofs), and the right roofs works day and night to help a man's daily work.

and anybody can lay a roof in them so well and easily, that it makes the safest and best roof you can get. But I have a new 100-year metal now. My Oshawa Shingle is Perfected. A 100-year roof is a mighty good article—far better than even old-style, hand-shaved cedar shingles. I know my roof is four times as good—and it won't burn.

A roof on a building is the weak link in a chain. Good foundations and good timbers rot—good products stored under a poor roof are spoiled because the roof doesn't protect. I want to stop that big waste. After years of work, I now know how to do it.

Not only that—when you get a roof, get the best you can find. Here is fireproof and lightning-proof protection for you for a century. Yet the roof costs a common, every-day price.

I worked for a long time to get a roof that could be easily laid by anybody. It had to be neither too heavy nor too light. It had to be smooth and clean. It had to be a real water shedder, no matter how long it was laid. It had to be proof against ice, snow, lightning, sun and time.

My "Roofing Right" book lets you dig down into my Oshawa Shingle proposition. I want you to send for it. You can get all the facts. Even if you do not use my roof this book is worth money because it gives valuable building hints. My Oshawa Shingles are on the best and most modern buildings. These are pictured in the book. You can get it for a post-card. Send that card to-day. My book will help you in your plans.

My Oshawa Shingles are the result. I worked for years to find a metal that wouldn't rust. I worked on an iceproof lockjoint. I have a shingle to-day that is the best ever put on the market. People buy it from me all around the world, it is so good. These people see how worth-while a good roof is.

Yours truly,

*J. H. Pedlar*

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The best and  
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**The B...**  
A large illustration of a building or structure, possibly a farm or industrial facility.

**REPTILES SEEDS**

THE BEST OF THE PATCH

ARE SUPPLIED TO YOUR DEALER  
FRESH AT 1/2 AND 1/4 LBS. EACH  
SEALS GUARANTEED ALWAYS  
BUYER TESTED  
W.M. REMPEL - CANADA FREE

W.M. REMPEL, LIMITED  
VANCOUVER, CANADA

**NEWVERMIFORME**

The best and most effective remedy for bots and other worms in horses (guaranteed by the Farmers' Horse Remedial Co., under the Pure Food and Drug Act, June 30, 1906, Serial No. 31571). It is guaranteed to kill and bring from the body down in from 18 to 24 hours all pin worms and bots.

It is absolutely harmless and can be given to mares in foal before the eighth month. Treatments of horse owners have written us Newvermiforme has removed from 500 and 600 bots and worms from a single horse. An animal whose stomach is full of worms cannot get fat or help being healthy. Send your order today. Beware of imitations.

Containers, \$1.25, 12 capsules, \$2.00  
Farmers' Horse Remedial Co., Dept. A.S.  
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**MERCHANTS PRODUCE CO.**

Butter Eggs Poultry Honey  
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Our constantly growing trade demands large supplies of choice farm produce.

We need you. Write for weekly market letter.

57 Front St. E., Toronto  
Established 1859

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affords protection to your lawns, flowers and children, in addition to adding a finishing touch of beauty that is most pleasing to the eye and satisfying to the owner.

Peerless Ornamental Fencing is unequalled for beauty of design, artistic finish and strength.

We have spent years in the manufacture of fencing and overall coverings, and we know that to give a fence a price you are willing to pay, don't be deceived by cheap imitations. Our fences are offered by catalog houses, because such a large quantity is made.

Our Agent will supply you, but get her back again. To do this, mentioning the name of your dealer, and send us your order at once.

Write for our printed matter. It is mailed free on request.

The Banwell-Hoxie Wire Fence Co.  
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**BREEDERS!**

ONE INCH SPACE

Same size as this will cost you only 95 cents in Farm and Dairy. It costs money to keep your surplus stock this winter. Sell through advertising.

Send Your Advertisement To-Day  
FARM AND DAIRY, PETERBORO, ONT.

**OUR FARMERS' CLUB**

Correspondence Invited

ONTARIO.

CARLETON CO., ONT.

NOITH GOWER, March 25.—The first winter course in practical agriculture to be conducted by the Carleton County Department of Agriculture was concluded here on March 8th. The total number of farmers enrolled for the course was 30, ranging from 16 to 32 years old. The course was made very practical, and applied as far as possible to the needs and conditions prevailing in Carleton County. The students showed the greatest interest in the live stock and field work, especially the former. The class had an opportunity to judge Mr. A. Wallace's pure bred Shorthorn cattle, also pure bred Holsteins from the farm of W. Pennell. The course was conducted by W. D. Jackson, our representative.—A. J. C.

LEEDS CO., ONT.

MALLOYDOWN, March 25.—Some of the cows here are pretty thin, due to the long cold winter, and milk cheques will be small. In spite of all that has been said on the question, many farmers think the size of their income is regulated by the Farmers are well up on their feet, and are now getting ready for sugar making. Cheese factories are commencing the season's operations. Hay will sell for \$12 to \$13; oats, 50c; eggs, 25c; butter, 30c, and potatoes, \$1.5 a bus.—W. F. A.

HASTINGS CO., ONT.

CHAPMAN.—We were visited last week by the "Better Farming" speaker, Train, which was much appreciated by the large crowd. The hope was expressed that these trains may be held in annual affair. The only regret was that there was not more time to examine the exhibits and hear the lectures. Hay is selling for \$14; potatoes, \$1.75; eggs, 25c.—S. T.

NORRHUMBERLAND CO., ONT.

WICKLOW, March 22.—Stock generally seem to be wintering well. Wild rabbits are becoming a serious pest. The orchards are much injured by the late frost. The fact of a canning factory being started at Grafton, will result in made contracts to furnish them with produce.—E. B. H.

PETERBORO CO., ONT.

SMITH TWP., March 23.—One of our farmers out here, Mr. Jas. A. Bell, has a herd of cows that are doing a lot better than the average. For the 22 days of February five cows produced 154.25 lbs. of butter worth \$48.33. Three of these freshened in January of this year and two milked for the full 12 months. The roughage these cows got consisted of hay and corn dried in the stook. Their grain consisted of two gallons a day of the following mixture: 200 lbs. oats, 30 lbs. cotton seed, 40 lbs. corn and 30 lbs. of bran. They also fed straws. Mr. Bell lays great stress on the effects of good care. He tells us that the last five days of February he was away and that he had always ordered personally went down 25 per cent in milk production. It took him three days to get her back again.—F. E. E.

LASSVADE, Feb. 12.—We are having very severe weather, the thermometer registering from 40 to 32 degrees below. There is plenty of snow of which the farmers and lumbermen are taking advantage by hauling logs to the mill and point. Bran, \$24; shorts, \$25; hay, \$12. It remains high, \$1.50 a bag; butter, 35c to 30c.—M. W.

PHEL CO., ONT.

BRAMPTON, March 20.—This town presented a holiday appearance to-day, when S. H. Mitchell, the energetic representative of the Cockshott Plow Co., held the large outdoor display of farm machines and implements ever seen in this part of the country. With 375 farmers in town, each driving a team of their own horses, for which this district is noted, and each bearing the sign, "We Use Cockshott Implements," the display was a most imposing one. Farmers from all the surrounding country began to arrive early in the morning, and by noon the town had the appearance of a fair. The day's procession, stretching from one end of the town to the other, paraded the principal streets, headed by the Huttonville Band.

WATERLOO CO., ONT.

ELMIRA, March 23.—Considerable grain is shipped in from the north-west for feed; frozen wheat at \$35; oats, 45c. This relieves us considerably along the line of the feed question, as mill feed is very scarce and the demand twice the supply. Horses are selling all along from \$200 for agricultural to \$500 and \$550 for drafters, while the country seems full of light and inferior horses, which can be bought cheap.—A. B.

OXFORD CO., ONT.

WOODSTOCK, March 20.—We had a few very fine days and finished the shearing in the afternoon, although some have tapped. There is a great demand for horses at \$200 to \$300 and over. Cows as a rule are not dear as a year ago, selling from \$30 to \$50. Feed is getting very scarce. Hay, \$17 a ton; straw, \$15; potatoes, \$3 a bag; butter, 35c to 40c; eggs, 25c to 35c. Cattle wintered well.—A. M. Med.

SORFOLK CO., ONT.

ERIE VIEW, March 22.—Hogs are selling at \$6.50. Our fruit association men held a very interesting meeting bearing on fruit culture, which was very much appreciated by a large concourse of farmers. Local buyers are shipping horses from the north-west. Butter, 35c; eggs, 25c.—B. B.

BRITISH COLUMBIA.

NEW WESTMINSTER DISTRICT, B.C.

MATSQUI, March 22.—Weather is fine, clear and frosty. Nights are too cold for much grazing. Farm work is general; a few early potatoes planted. Hay is moving slowly at \$14 to \$15 f.o.b. shipping prices on the better flat banks. The death does the leasting, which varies from 60 to 1 per cent from the pasture's test. A strong milk association is being organized to arrange prices. Potatoes sell for \$23 to \$30 a ton in Vancouver. Meats of all kinds are scarce and in strong demand.—P.

SIMILKAMEEN DIST., B.C.

ALLEN GROVE, March has been quite backward for this country, a number of farms have changed hands recently, the buyers coming from the prairie provinces. Cattle prices are of being very high this season. Heavy horses are also bringing high figures. Young pigs are almost impossible to get. The roads in some places are already quite dry and smooth. Seed potatoes are going to be high. Fresh milk cows are in demand at good prices. Dry wood is \$7 for two racks of 15-inch block wood. Eggs have dropped to 40 a dozen. The prospects are bright for a prosperous year.—R. L. A.

WINNERS IN CEMENT PRIZE CONTEST

Those Canadian farmers who won prizes in the big construction competition put on by the Canadian Cement Co. during the last year were as follows:

Alberta.—Prize A.—Hays Brothers, Carstairs. Prize B.—Tomford Brothers, Milk River. Prize C.—George Jackson, Chetive. Prize D.—Herbert Elwell, Blackfalds.

Manitoba.—Prize A.—William Elliott, River Plains. Prize B.—Mrs. Jonathan Blake, Bradwardine. Prize C.—R. N. Harp, Woodlands. Prize D.—B. Chapman, Stratton P. O.

Nova Scotia.—Prize A.—Edgar Fillmore, Amherst. Prize B.—S. Ferris, River Philipps. Prize C.—Robert Malcolm Brule, Prize D.—T. W. Keller, West Amherst.

Prince Edward Island.—Prize A.—Charles Godfrey, North Wilshire. Prize B.—Richard Creed, Alton. Prize C.—Frank C. Beston, East Point. Prize D.—J. H. Orswell, Clyde Station.

British Columbia.—Prize C.—Beth Davidson, Peachland. Prize D.—W. O. Walker, Chilliwack.

New Brunswick.—Prize A.—Sir Wm. Van Horne, St. Andrews. Prize B.—G. E. Steves, Hillsboro. Prize C.—Mrs. D. McQuarrie, Newcastles. Prize D.—E. J. Sullivan, Grand Anse.

Ontario.—Prize A.—Tra M. Millroy, New Dublin. Prize B.—W. P. Allison, Chatterville. Prize C.—Geo. Bennington, Prescott. Prize D.—Herbert Bowles, Randolph.

Quebec.—Prize A.—William McIntyre, St. Anne de Bellevue. Prize B.—Thomas I. Irving, North Georgetown. Prize C.—Joseph Courtois, Montreal. Prize D.—R. E. A. Kolliver, Cowansville.

Saskatchewan.—Prize A.—Charles Orchard, Borden. Prize B.—Charles Elton Laird, Borden. Prize C.—D. A. Purdy, Lumsden. Prize D.—P. M. Lys, Frys.

**THE FENCE MAN**

HE PAYS FREIGHT

Sells direct to buyers at factory prices. Iron and Wire Fence, all styles; Gates; Barbed, coiled and plain wire; Staples; Fence Hooks; Posts, special prices car loads.

If you buy big money, give you best fencing and quick service. Here are sample prices: All No. 9 Fence 9 strands, \$9.00; 8 strands, No. 7 strands, 26 per rod, etc. 17 years in Canadian fence business. My printed matter explains my methods. Get it. Write to-day.

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Ask for Folder "L." TORONTO

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**MANITOBA, ALBERTA SASKATCHEWAN**

The only through line  
**LOW COLONIST RATES**

For parties travelling with livestock and effects

Special Trains  
Will leave Toronto  
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Settlers and families without livestock allowed

Regular Trains  
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No charge for berths  
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Ask any C.P.R. Agent for copy of "Settlers' Guide"



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**CALF MEAL**

No other food except fresh milk itself contains so much nutriment for calves and young pigs as this meal. The Government has shown a much higher percentage of fat (fat) value than other milk "drugs," but an extremely wholesome food. Made in England by an honorable firm—the largest manufacturers of Oil Meal in the world.

20-lb. bags, \$2.45, at all Grocers.

**W.M. BENNIE CO., Limited, TORONTO**

**RICH MILK AND PLENTY OF IT**  
at the least expense. This is the dairyman's problem.  
**BE PROGRESSIVE. BALANCE THE RATION**  
Furnish the cows with sufficient protein by using  
**OWL BRAND COTTONSEED MEAL**  
41% PROTEIN GUARANTEED  
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We want distributors. Write for our plan and for our free booklet, Science of Feeding.

## BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines nor for less than six months, or 1 insertion during twelve months.

**HAMPSHIRE PIGS**—Canadian Champion FOR TANWORTH SWINE—Write John W. Todd, Cornish, Ont., R.F.D. No. 1.  
**CLYDESDALES, Imp. Stallions and Fillies.** Fresh importations always on hand. Every mare guaranteed in foal. Lawrence, Minn., U.S.A.  
**CLYDESDALES**—Home of Apsco. (Imp.) Holsteins—Home of King Fayne Bred Clothida, near 7 dams of lbs. butter per week and Broken Borden—E. M. Holtby, G.T.B. & P.O. Manoheter, Ont., Myrtle O.P.R.

## AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Canada. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire send items of news to the regular breeders for publication in this column.

**WM. STEWART & SONS' AYRSHIRES**  
So great is the demand for Ayrshires of the right kind of breeding that the herd of the veteran breeder, Wm. Stewart & Sons, of Menie, Ont., was reduced to small proportions when visited recently by an editor of Farm and Dairy. Mr. Stewart has only 27 head on hand and nothing much to offer in the line of young stock but a couple of bull calves coming a year old. Both of these calves are from Record of Performance cows and are sired by Queen's Messenger of Springhill (2154). The dam of one of the calves, Langefret Kiray, as a two-year-old, gave 7,000 lbs. of milk and dropped her second calf in 11 months. She was never dry a day and her milk tested an average of 4.15 per cent.

Another good one is Sprightly of Menie, a daughter of Sprightly, imported by David Menie, bred by R. R. Hunter, and bred by John Caldwell, Bogside, Scotland, and a half sister to the famous John Apsco. She has won in many hard fought battles. She has won in six years old. She started her test on 10th, 1911, and gave 5,716 lbs. of milk testing 4.8 per cent in seven one-half months. She is due to fresh again on March 17th. She was bred to Cashier of Spring Hill. Sprightly of Menie is one of the best breeding cows in the herd and is looking like besting her last year's record. She has grand good tests and is a show cow.

Mr. Stewart's females are mostly young cows, there being only five mature ones in the herd. One cow that attracted our attention particularly was Iris of Menie. This cow is 15 years of age but she is one of those deep-bodied, strong-backed cows that one instantly recognizes as a cow that will convert feed into milk and lots of it, and her record proves that she does it. In her 15th year she gave 4,853 lbs. of milk and 27.2 lbs. of butter fat in R.O.P. test. She has the straight lines and even conformation for which the breed is famed. She has never freshened at a time when the weather was fair; but she would take no mean place in good company.

A large, deep-bodied cow with a good, straight back, deep middle, even head, and withal a first class show cow is Queen of Beatty, bred by R. Hunter. This cow was disqualified twice, but will be eligible next year. Her mother, Bloomer, gave 11,000 lbs. of milk in a year, and was sold at the Hunter sale for \$600.

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## Pleased with Results

I am much pleased with the results of my Live Stock advertisements in Farm and Dairy.

They have been very gratifying. As a result of the two Illustrations of my Ayrshire heifers that were published in the January 4th issue of Farm and Dairy, I have received letters from various parts of Canada and from several states in the American Union, from parties including Agricultural Colleges, that would like to buy them.—Alex. Hume, Menie, Ont.

One of the best

Among the young females, the 3-year-old Dewdrop of Menie is one. Although she had been milking several months when we saw her she still swings a good-sized udder that is shapely and evenly developed. She has a cleanly cut head, neck and withers. Her back is as straight as a die, and altogether she is a right good show animal as well as one of the best producers in the herd, having given 5,718 lbs. milk and 401.45 lbs. fat in six months. On 21 days and 21 days she dropped her second calf in 11 months 4 days and was dried up giving 24 lbs. a day.

One of the high testing one is Heather Bell, who as a two-year-old produced 5,860 lbs. of milk testing 5.6 and still has some time to run when we saw her. She is still giving nearly 20 lbs. of milk a day and had she been paid she would certainly have made over 10,000 lbs. in the lactation period. Her mother, Heather Bell, is of a high testing family, her dam having tested 11. Another two-year-old of the producing kind is Lassowagor. She produced 6,229.5 lbs. of milk testing 4.7. Mr. Stewart's hands only a part of the time when making her test, and he believes that she will be much better later on.

Springhill Cashier, heading the herd, as a 12-year-old cow, has a fine head, as tidy a bull as one would care to see. He has symmetry and character, a head showing a kind of masculinity, in a straight, strong back and in the legs, a good handler. He carries himself like a king and would attract the eye in any company. His dam, the 12-year-old, gave 4.2 milk in her 15th year. His sire, a dam produced 4.8 lbs. of milk a day. This pair for six months in the old country, they had, therefore, possessed both individual merit and producing ancestors, and Mr. Stewart believes that he will do the herd a lot good, as the young things from him are proving exceptionally fine.

## WHICH OF THESE Corn and Root Cultivators

YOU get more than paid, if you use your Cultivator steadily to mulch root crops, beans and corn from the very beginning. You need one of these implements for corn especially. The high axle construction allows continued cultivation until very late. Guard plates are provided so cultivation may begin the moment shoots appear above the ground, and narrow, medium and wide points meet every condition for which you need a Cultivator. Remember you cut down hoeing, and save time, with a Corn Cultivator.

### COCKSHUTT SPRING-TOOTH CULTIVATOR

This is a prime favorite for cultivating root crops, especially those planted in narrow rows as it can be narrowed down to cultivate not more than 28 inches wide. Practically an all steel implement, so one that will last a lifetime. Note the high axle and low steel wheels. These wheels are exceedingly strong and have dustproof bearings, the boxes of which are removable. Spring teeth are made of best quality steel and cultivate every particle of ground, even the wheel tracks, as a tooth is placed directly behind each wheel. Both narrow and wide points for mulching and wide points for thistle cutting, are supplied. Narrow points are reversible; that means double wear. The New Spring Tooth mulches. It kills weeds. It cuts thistles. It is strongly built and is easy to operate.

### FROST & WOOD "NEW AMERICAN" CULTIVATOR

Here's an implement with a fine record as a Corn and Root Cultivator. Can be used as a Field Cultivator by the addition of a centre section, easily bolted into place. As a Corn Cultivator it has two sections, each independent of the other. See the struts for operator's feet—and the way each section can be adjusted by him when cultivating uneven rows. Axles are also adjustable—can be regulated to work in any width of rows. The New American is well made throughout and particularly easy to handle. Is equipped with corn shields, and narrow, medium or wide teeth, so all kinds of cultivation can be done. Bean Harvester attachment supplied at a small extra cost.

Let us send you a Catalogue with more information on these implements. A post card will bring it.

Sold in Western Ontario and Western Canada by  
**COCKSHUTT PLOW CO., Limited, BRANTFORD, WINNIPEG,**  
In Eastern Ontario, Quebec and Maritime Provinces by  
**The FROST & WOOD CO., Limited, Smith's Falls, Montreal, St. John**



**FACTS GLEANED FROM A TRIP OF INSPECTION IN A CREAM SEPARATOR FACTORY**

**An Editor of Farm and Dairy Tells of What He Sees and Finds Out at First Hand About an All Canadian Hand Cream Separator—The Standard**

It was recently with a deal of interest that one of the editors of Farm and Dairy had the privilege of inspecting the shops of the Renfrew Machinery Company, Limited, and acquiring into the many things pertaining to the "Standard" Cream Separator at first hand, on the spot where this hand cream separator is made.

The "Standard" is a purely Canadian machine, having been designed and is manufactured throughout in the works at Renfrew, Ont. The spacious new factory, which has lately been greatly enlarged to keep pace with the growing demands for "Standard" Cream Separators, is equipped with the most modern machinery, especially adapted for use in the manufacture of "Standard" Cream Separators.

**THE EXPERTS AND THEIR TRAINING**  
The men engaged in the designing and carrying into effect of new ideas in connection with this separator are experts of over twenty years' experience. The knowledge they have acquired by their vast experience, together with the modern equipment and quality of material used in the shops of the Renfrew Machinery Company, enables this company to assure you of the "Standard's" superiority.

The space at our disposal does not permit us to tell of the many interesting machines which we inspected through the works, many of which work automatically, cutting gears with the precision demanded by the requirements of the "Standard" Cream Separators. We were interested in noting the thorough inspection, which every part was forced to undergo at every stage in its process of completion. Then after all parts are completed the whole is assembled and the complete machine is tested on a five-hour continuous run, thereby ensuring that the machine is perfect in every particular and able to withstand all demands that will be made upon it.

**SANITARY DISCS THAT WON'T CLOG**

Several exclusive features of the "Standard" Separators struck us as being unusually worthy of note to any one who is considering the purchase of a hand cream separator. The skimming device, which is of discs, is so contrived that, no matter what the conditions, the machine will not clog. It is so constructed that cream will not remain on the discs. In perfecting the discs, as used in the "Standard" Cream Separators, advantage was taken of a suggestion thrown out by Professor J. J. Gradle, now Director of Dominion Experimental Farms, in that a clearance space was allowed for the dirt and scum, which is to be found in less or greater quantities in all milk, and remains in the bowl after the milk and cream are separated. The result of this idea is a sanitary set of discs, always clean and able to skim the last rounds of milk as perfectly clear as cream as the first milk from the daily milking.

Contrived as they are, the inside edges of the discs are left away from the centre, and they are thus made such that the cream never adheres to the discs, and hence there is no loss or waste in this connection with the "Standard" Cream Separators.

Another outstanding feature of the "Standard" Cream Separator is that when they are in motion all that one can see turning is the crank. All gears and bearings are enclosed, hence there is no danger whatever of any

one getting caught and injured by any part of these machines.

**EXCLUSIVE SELF-OILING FEATURE**  
Then the self-oiling feature is worthy of notice. The oil is sprayed automatically on to all of the bearings and all is so protected that dust simply cannot get near the oil, and will cannot get near the oil. The oil may be drained out of the machine and the space for oil refilled as desired.

The manner in which the spindle bearing of the "Standard" is protected is most unique. A dust-cap and a deflector fits on over this bearing, making it impossible for dust, or dirt, or waste milk, to get to the bearing.

The Helicoid gear of the "Standard" Cream Separator is another point which interested us as being worthy of note. It is partly due to this gear that the "Standard" runs so smooth and quiet, and the makers claim it to be much stronger than the old style gears and to run with less friction.

**ATTRACTIVE AND PLEASING FEATURES**  
Those who have seen the "Standard" Cream Separators will have been attracted by their neat and pleasing appearance. The low-down supply can of the "Standard" and its high crank shaft, being four inches higher than other low-down separators, makes it a most appealing machine to the person who has to turn it. And then the finish on the machine itself is calculated to make it of pleasing appearance throughout the many years it will last. Eight coats of paint and filler are given each machine, and then it is enamelled. During the process of getting its complete dress, the machines are baked three separate times, this all going to ensure the machine continuing to look nice throughout a great many years of use.

**MORE FACTS FOR THE ASKING**

The manufacturers of the "Standard" Cream Separators invite all readers of Farm and Dairy to get their descriptive catalogues and learn more about the "Standard" than can be given in this article, before purchasing a cream separator. This literature will be forwarded free on request to the Renfrew Machinery Company, of Renfrew, Ont., which Company assures all of their customers that it is ever their endeavor to see that their customers have entire satisfaction with the "Standard" Cream Separators, since they fully appreciate that the recommendation from a user is the best recommendation they can have, and is essential to the future advancement of their business.

**Item of Interest**

A bill respecting the incorporation of Live Stock Record Associations has just been introduced in Parliament by Hon. Mr. Burrell, Minister of Agriculture. This bill is based on the existing Pedigree Act passed in 1900, but it contains many important provisions of that measure while at the same time introducing certain new features which, from the experience gained during 12 years' operation, have been thought to be necessary and advisable. The present action, which is the result of an understanding between the Record Board and the Live Stock Commissioner, will, it is hoped, greatly simplify and improve the relations which necessarily exist between the various Record Associations and the Department of Agriculture at Ottawa.

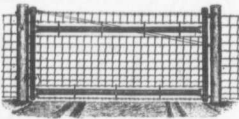


I guarantee every Clay Gate against defects in material and workmanship. I will replace free of cost to you any parts or the entire gate giving out for such reason.  
H. Ralph Steele, Manager

FARMERS and stockmen who want to be free from bad gate-worn gates which fail to keep back hogs, sheep, chickens and cattle—should use

**CLAY STEEL GATES**

Clay Gates are made of high carbon steel tubing—far stronger than gas-pipe, angles, hex iron or steel—in a variety of styles. They are light, simple and durable—will never sag, bend or break. Can be adjusted without tools to swing over snow in winter or to let small stock through. Clay Gates pay for themselves by good service and by saving time and repairs.



**60 DAYS' FREE TRIAL**  
Let us send you a Clay Gate for 60 days' free trial. Try them before you buy them. Last year 20,000 Clay Gates were sold on these terms. Send today for illustrated price-list.

**CANADIAN GATE CO. Limited, 29 Morris St., Guelph, Ont.**

**FREE Save 30% STYLE BOOK for 1912, of "QUALITY LINE" VEHICLES and HARNESS**



Eighteenth Year of selling direct to the User. Our Catalogue will help you to choose just the Vehicle or Harness you require, and save you MONEY. It describes and pictures many styles, gives prices, FREIGHT PREPAID, and fully explains our method of Selling Direct, and saving you the Middlemen's profit. Remember we pay the Eastern Canada. The Catalogue is Free for the asking. Send for it Today.

**INTERNATIONAL CARRIAGE CO. DEPT. "D" - - - - - ONT.**

**YOUR CROPS can get more nitrogen out of one single sack of**

**Nitrate of Soda**

than out of a two-horse wagon load of manure. The Nitrogen in Chilean Nitrate of Soda is 100% available and is *immediately* so the day you apply it! It produces

**More powerful growth and healthier, bigger plants. Easy to handle, clean, cheap, odorless, free from fillers.**

Write to us for valuable free literature on the crops that mean a living to you. A post card will bring it to you.

**Dr. William S. Myers** Director of Chilean Nitrate, 17 Madison Ave., New York  
**NO BRANCH OFFICES**

**Heaves of Three Years' Standing Completely Cured by Fleming's Tonic Heave Remedy**

So says Mr. H. B. Burkholder, Lillooet, B. C., writing about Fleming's Tonic Heave Remedy, and adds, "I also find it the best condition powder I ever used."  
Heaves is not, as commonly supposed, a disease of lungs or air passages. It is due to stomach trouble, which, through the close nerve connection, causes a contraction of the lung tissues, and labored breathing. Fleming's Tonic Heave Remedy corrects the stomach trouble, and tones up the whole system. Its cause is gone, the heaving stops.  
As a general condition powder, Fleming's Tonic Heave Remedy has few, if any, equals. Sent, postpaid, for \$1.00 per package.



We believe this is the best book ever printed for the distribution. It covers all the latest subjects, letting plainly the value of various diseases and remedies and how to cure them. Write for the asking—write us for a copy.

**Fleming's Lump Jaw Cure**—the first successful Lump Jaw Cure—today the standard treatment.  
**Fleming's Spavin Cure**—(Liquid) cures soft and semi-solid blemishes without scarring.  
**Fleming's Fistula and Pile Evil Cure**—enables anyone to readily cure cases considered incurable.  
**Fleming's Spavin and Ringbone Paste**—one or two applications cures cases of years' standing.  
If any of your money—you to be the judge and your word to go.  
**Fleming Bros., Chemists, 25 Church Street, Toronto.**

We present paper you Dairy Magazine is its one another it is being subscribers more commor of our three annals.

To our not long Dairy and Dairy this issue is a large magazine publish during Dairy Annual fourth annual Dairy special we will have Improvement Farm Machin 5th, our Exhib Annual; Det Number; and Breeders' M through each 10 cents, the regular subscri to them.

Every line issue carries guarantee, a every advert through Farm solely rely pride to us paper for all ment. We you appreciate Dairy coming up-to-the great practice cash to you. the support you ing us to live we have set all which will no objectionable kind, and fee to you.

When you home into you goes on our there are at average who and a great scribers for neighbors for an idea of paper To an advert all of these P Farm and D at a cost th only 98 cent proposition F remarkable. that we have advertising of lack of space

For the ap da on Dairy a the co Gard's Dairy Guernsey, Of this dairy for represent and Quebe quate a num down by the

You will that our circ rapidly. The several hund Our regular last showed up



**There's a GOOD Job! I Used Amalite ROOFING**

"NOW I have the best roof in this township. One that will last—one that's water-proof—one that will resist the hardest storms—and I didn't have a bit of trouble laying it."

That's about what every Amalite owner says. Its superiority over all other ready roofing is apparent to anyone who uses it. Amalite does away with all roofing troubles and unnecessary expenses because it is made with a real mineral surface that needs no painting. It is durable, fire retardant, practical, economical.

Don't buy any other roofing till you look up Amalite. Write to nearest office for samples.

**Everjet Elastic Paint**  
Beware of using this black paint wherever the color is objectionable. Elastic Roofing and all exposed iron and wood.

**Paterson Manufacturing Company**  
Montreal, Toronto, Winnipeg, Vancouver.

### A First Prize Farm

(Concluded from page 3)

one will find on many hundreds of Ontario's better farms. Everything about the house, however, is very cosy and homelike. Vines and flowers make it attractive, and a good sized lawn, neatly kept, and hedges trimmed and kept within the proper bounds, and many maple trees along the roadside close by, give this home a pleasing setting and show that the people living there appreciate the value of these real things in life.

Quite as one would expect of Mr. Paterson, he is painstaking in keeping books and accounts of all things pertaining to his farm. He keeps milk records of his cows, and, like any true business man, he can show you just where his profits come from. He makes sure that in all departments of his farm there are no leaks ceaping his notice, through not keeping records and accounts.

This idea of bookkeeping and records extends to his system of under-drainage. His farm has been thoroughly underdrained for many years. Mr. Paterson can show you right to a few inches the exact location of each drain.

#### A PRODUCER OF EXCELLENT CROPS.

It might be said that good crops are characteristic of Mr. Paterson's farm. His place was remarkably free from weeds, and because of this fact he received on this point a score greatly exceeding all of his competitors in district No. 4, which included all of Western Ontario. His crops as

to enlarge upon did space permit. Before concluding we must again make comment of the unusual high average of all departments as scored in connection with Mr. Paterson's farm. It is possible that not many

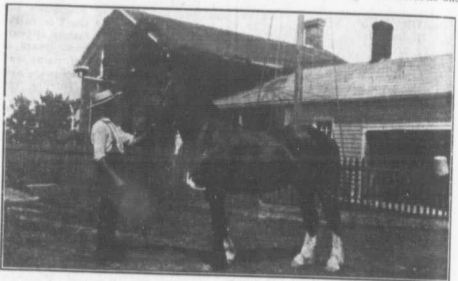


#### Not Pretentious, But a Real Home

Hedges, flowers and a neatly kept lawn add embellishments to this place much beyond what one would expect from seeing this illustration. This farm of Mr. W. A. Paterson's was first place in competition with many farms having more pretentious homes, all of which go to prove that it pays to make the most of the things we have.

farms elsewhere can be found but would in some one or two particulars be considerably ahead of Mr. Paterson's, but in the real worth-while things, which count, and as reckoned with in the score card, Mr. Paterson's farm was unusually praiseworthy, as indeed it had to be to score the high place it received.

Other than the several things already noted in connection with good workmanship and the pleasing appearance of things about this farm, special mention ought to be made of the painted buildings. The barns and



#### The Stamp of Farm Horse that Mr. Paterson Favors

This mare is one of four kept at a double profit by Mr. W. A. Paterson, the first prize farmer, whose farm and methods are described in the adjoining article. The background of this illustration affords a side and partial rear view of Mr. Paterson's house.

—Photo by an editor of Farm and Dairy.

we found them included: Corn, 8 acres; mangos, 3 acres; turnips, barley, 16; fall wheat, 13; carrots, three-quarters of an acre; hay, 31 acres. Only a limited area is reserved for pasture, advantage being taken of roadside pasture and considerable feeding of soiling crops is practised within the stable.

These crops are grown in rotation, the grains following roots and corn, and the land being seeded down and left two years, then grain following for three years. We were not partial to this rotation, but Mr. Paterson said that he found it impossible to get over his place any quicker. He draws out all manure in the winter time, placing it on the land for roots and corn.

Potatoes are quite an important crop with Mr. Paterson. He likes to put them on a clover sod and plants them following the plow, which is set to run as shallow as can conveniently be turned.

SCORED ON ALL-ROUND HIGH AVERAGE. There are many things about Mr. Paterson's place that we should like

outbuildings are painted red with white trimmings, the farmstead thus being an additional worth-while touch which makes it noteworthy to the passerby and pleasing to the people at home who are constantly about and in sight of the buildings.

Would that many others might emulate many of the things as these are to be found and as we have noted them on this first prize farm.—C. C. N.

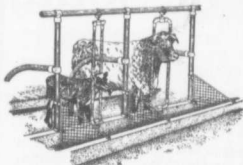
#### Item of Interest

At the convention held recently the Ontario Vegetable Growers' Association a strong resolution was passed urging upon the immigration authorities, both of Ontario and the Dominion, to endeavor to get a large migration of skilled laborers for market gardeners and vegetable growers. If this is not done the market gardeners and vegetable growers and farmers of Ontario will be unable to supply the demand for their produce. This question is being brought before the authorities, both at Ottawa and Toronto at once.

## Farm Improvement

Watch for our big Special on this subject! MAY 2nd IS THE DATE. It'll be of great interest to you.

## Stable Your Cattle The Superior Way



The SUPERIOR, the only adjustable stanchion in the world that you can adjust to fit from your smallest calf to your largest export steer. YOU will admit that the steel stall and stanchion is in every respect preferable to the old style stall. It is the steel stall and stanchion that YOU want in your stable—and that you want to be the most modern to be had, at a modern price.

The principal parts of a sanitary stall are the mangers and the stanchions. If the manger is wrong, you are slightly inconvenienced, but if the stanchion is wrong, everything is wrong.

**SUPERIOR Stalls and Stanchions** are set down to a standard. No trappings and fixings—just what is necessary, and no more.

The **SUPERIOR Adjustable Stanchion** is in a class by itself. It is the most durable, strongest and safest stanchion made. It is complete, rotating, noiseless, has either wood or steel side bars, and can be adjusted from 5 inches to 18 inches.

The **SUPERIOR Standard Stanchion** is absolutely cow proof, complete rotating, noiseless, and all metal.

**SUPERIOR Mangers** are everlasting, convenient and perfectly sanitary; they give no obstruction to air or light, they provide for any method of watering, individual feeding, etc.

Our book on **SUPERIOR** equipment is free. Drop us a card for your copy now.

When you want a Litter Carrier, write US.

All **SUPERIOR** Goods are original and genuine, and acknowledged to be the most practical and modern.



The Superior way of stabling the Herd Bull

## The Superior Barn Equipment Co. FERGUSON Ont. S

PUBLISHERS' DESK

We present to you this week, in the paper you hold, our Fourth Great Dairy Magazine Number. The issue is our best recommendation. It is another double record breaker as it is being mailed to some 3,000 more subscribers, and carries considerably more commercial advertising than any of our three previous special dairy annuals.

To our new subscribers who have not long been acquainted with Farm and Dairy we would announce that this issue contains eight special enlarged magazine numbers, which will be published during the year. This Great Dairy Annual is the third in this fourth annual series of Farm and Dairy special numbers. On May 2nd we will have out for you our Farm Improvement Number; June 6th, our Farm Machinery Number; September 5th, our Exhibition Number (Fifth Annual); October 10th, our Household Number; and on December 5th, our Breeders' Magazine Number. Although each of these issues sells for 10 cents, they each and all go to our regular subscribers at no extra cost to them.

Every line of advertising in this issue carries with it our positive guarantee, and you can depend on every advertiser, appealing to you through Farm and Dairy, being absolutely reliable. It is a source of pride to us to be able to issue this paper for farmers entirely clean and clear of all questionable advertisements. We can anticipate just how you appreciate having Farm and Dairy coming into your home, alive with up-to-the-minute information of great practical value, which is worth cash to you. We are encouraged by the support you are giving us in helping us to live up to the high standard we have set for this farmers' paper, which will not accept questionable or objectionable advertisements of any kind, and feels its great responsibility to you.

When you think of it, that in every home into which Farm and Dairy goes on our regular subscription list, there are at least five people on the average who read Farm and Dairy, and a great percentage of our subscribers trade Farm and Dairy with neighbors for other papers, you get an idea of what a wonderful institution a paper like Farm and Dairy is. To an advertiser who can appeal to all of these people—in the case of Farm and Dairy upwards of 65,000—at a cost through these columns of only 98 cents an inch, as a business proposition Farm and Dairy is truly remarkable. There is little wonder that we have had once more to leave advertising out of this issue through lack of space in which to carry it.

For the splendid photo of an ideal dairy farm on the front cover of this Fourth Dairy Annual, we are indebted to the courtesy of the editor of Ward's Dairyman. The cow is a Guernsey, "Fernwood of Chantilly." Of this dairy breed there are only a few representative herds in Ontario and Quebec provinces, but there are quite a number in the provinces "down by the sea."

You will be interested to know that our circulation is growing very rapidly. This issue circulates by several hundred upwards of 14,000. Our regular mailing list on Saturday last showed us to have over 13,400 sub-

scribers. We are going to grow a whole lot more. Just here you can help us greatly by expressing your appreciation of Farm and Dairy to one of your friends or neighbors and asking him to become a regular subscriber to this paper, which you find worth so much to you. Remember we will amply reward you for each new subscription you get for Farm and Dairy.

Big Value for the Dollar

Read an article last summer in Farm and Dairy that has been worth the subscription price to me for several years to come. It was by a writer who described how to prevent bees from swarming and to get them to make a lot of honey. The writer explained that what the bees needed was more ventilation and room to work in, and described a simple method of furnishing this by increasing the aperture in front of the hive 1-4 inches to 1-2 inches. At the same time he showed how to prevent robbing bees from getting in at the same time.

Previous to reading this article, my bees used to spend a lot of time "fanning" in front of their hives. When I tried the method described in Farm and Dairy, they stopped doing this and went right to work. During the season they gave about double the amount of honey I usually received from them. I have kept bees for 45 years, but had not discovered this simple method. It is well worth trying by other bee keepers who may not know about it."—Mr. R. Gardiner, Millbrook, Ont.

I find your paper very helpful.—Mrs. S. J. Cryslar, Norfolk Co., Ont.

TIMOTHY SEED

Buy The Best

Ottawa Valley Seed, Capital Brand, grown in the best hay growing section in Ontario. Every bag inspected by officer of Seed Commission, Ottawa.

No. 2 Govt. Standard, lb. 16c; bush, \$7.68  
No. 3 " " " " 15c; " " \$7.20  
No. 3 " " " " 15c; " " \$7.20

Above prices for 50c bags lots and up, f.o.b. Navan, Ontario. This seed has been threshed off good heavy clay land and is good, strong, vigorous seed.

Compare my prices with others and remember each bag of seed will be inspected before shipping. Farmers buying seed of me can send money to Traders Bank, Vars, Ontario, and when seed is shipped, bank will transfer money.

MARSHALL RATHWELL, NAVAN, ONT.

Save Money When Building

By Using the VAN GUILDER HOLLOW WALL Cement Construction Machine

Machine is 5 feet in length, and with it you can build houses, barn walls, etc. Saves one-third on cost of material. Great saver in labor. No plans necessary. No other forms needed. Two men and this five-foot machine will build any kind of structure at over one-third saving over other cement construction.

Make Money by owning one of these out to your neighbors. Full particulars to you if you mean business. Write

C. C. HUYCKE, Hastings, Ont



Lump Rock Salt, \$10 for ten tons, f.o.b. Toronto  
Toronto Salt Works, 128 Adelaide St. E.  
G. J. CLIFF, Manager Toronto, Ont.

ADVERTISE in these popular columns, which afford you the most profitable—costs you only 98 cents an inch.



SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

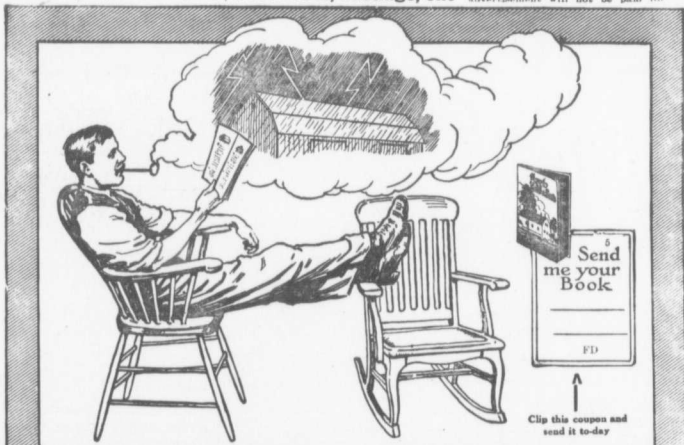
ANY person who is the sole head of a family, or any male over 18 years old may homestead a quarter section of available Dominion land in Manitoba, Saskatchewan or Alberta. The applicant must appear in person at the Dominion Lands Agency, or Sub-Agency, for the District. Entry by proxy may be made at any agency, on certain conditions, by father, mother, son, daughter, brother or sister of intending homesteader.

At least a 6-month residence upon and cultivation of the land in each of three years. A homesteader may live within five miles of his homestead on a farm of at least 80 acres solely owned and occupied by him or by his father, mother, son, daughter, brother or sister.

In certain districts a homesteader in good standing may preempt a quarter-section alongside his homestead. Price \$1.00 per acre. Duties—Must reside six months in each of three years from date of homestead entry (including the time required to earn homestead patent) and cultivate fifty acres extra.

A homesteader who has exhausted his homestead right and cannot obtain a pre-emption, may enter for a purchased homestead in certain districts. Price \$1.00 per acre. Duties—Must reside six months in each of three years, cultivate fifty acres and erect a house worth \$300.00.

W. W. COBT, Secretary of the Minister of the Interior.  
B—Unauthorized publication of this advertisement will not be paid for.



Storms Bring a Two-Fold Danger to the Barn—You Want to Avoid Both Fire by Lightning and Loss Through Leakage

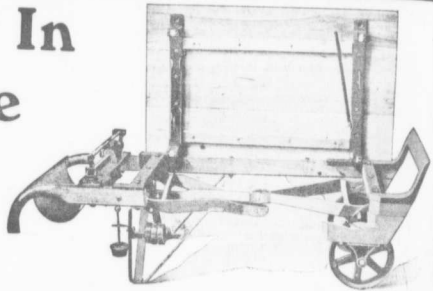
The roof is the most important part of your barn. It is here that lightning strikes. It is here, too, that rain finds cracks and holes, and comes through the roof to the injury of the barn and its contents. How, then, to guard against roof troubles? In our new book, entitled, "How to Build a Barn," the author tells you. In fact, in the preparation of this book, much care and attention has been given to the subject of the barn roof. You will find much to interest you.

interest you in the way of descriptions of Galt Steel Shingles and Easing, and reasons why these materials are best for your barn. But the book does not end there, by any means. It is just check full of important suggestions for the man who contemplates building a barn. And even if you do not intend building, you will find the book worth-while having for it contains many valuable suggestions apart from the actual plans.

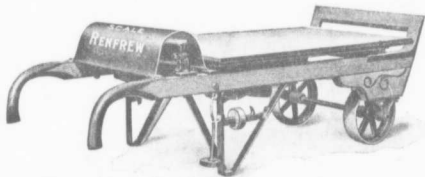
THE GALT ART METAL CO., Limited, 125 Stone Road, Galt, Ontario  
BRANCHES—General Contractors Supply Co., Halifax, N.S.; Esley & Co., St. John, N.B.; R. Chestnut & Sons, Fredericton, N.B.; J. L. Lachance, Ltd., 253 St. Paul St., Quebec, Que.; Wm. Gray Sons-Campbell, Ltd., 552 St. Paul St., Montreal, Que.; Montague Sash and Door Factory, Montague, P.E.I.; Fife Hardware Co., Furt William, Ont.; Galt Art Metal Co., Ltd., 825 Henry Ave., Winnipeg, Man.; Gorman, Clancy & Grindley, Ltd., Calgary, Alta.; Gorman, Clancy & Grindley, Ltd., Edmonton, Alta.; D. R. Morrison, 714 Richard St., Vancouver, B.C.

Send me your Book  
FD  
Clip this coupon and send it to-day

# It Is The Profit In The Last Ounce That Is Your Clear Profit



**T**HE farmer or dairyman who does not know what he is selling is very liable not to be paid for full weight. The pounds or ounces he loses may form only a very small part of his total selling price, but they make a very large hole indeed in his net profits. The man who owns a "Renfrew Handy Two Wheel Truck Scale" does not guess at what he is selling or buying. He knows. He does not have to rely on what the scales of any one else may say; he is in a position to weigh for himself. Remember, buyers are only human and are looking for their profits. A single transaction may net you enough additional profit to pay for a "Renfrew." For instance, A. A. Ross, of Russell, Ont. wrote us a while ago that his "Renfrew" saved him \$9.44 in just one small deal in hogs. Why not let the "Renfrew" save money for you?



The

## "RENFREW" HANDY TWO-WHEEL TRUCK SCALE

is a little scale that weighs big things. Although it is mounted on a truck, and can easily be wheeled from place to place, it has a capacity up to 2,000 pounds, and on account of its very lightness will weigh anything that can be weighed on a regular platform scale. Then note carefully that "Truck" feature; to weigh anything you don't need to take it to your scale, you just lift the handles and wheel the scale to whatever you want to weigh. This feature saves much time and labor. Moreover the "Renfrew" is absolutely accurate and in the building of each individual scale every detail of the design is carried out to a hair's breadth. Before being shipped to you it is tested by a Government inspector and when you get it, it comes with his certificate attached. Then when a buyer or seller refuses to take the weight of your "Renfrew," you don't need to say a word. All you have to do is to show him the certificate.

Send For Our  
**FREE Book "The  
Profit in the Last  
Ounce"**

**T**HIS booklet is practically a story of exact business methods, as applied to farming, and should be read by every farmer who buys or sells anything. The book not only tells all about the scale itself but suggests a host of uses to which it should be put. Every farmer owes it to his pocket to read this book. The edition is limited and the book is really good enough to charge for, but as long as our supply lasts, we will send it free on request to those who send us the name of their dealer. Simply drop us a post card telling us to send you the book and giving your own name and that of your dealer.

is made with two weigh beams which will weigh 200 pounds on each beam without the use of weights. The top beam is all brass and the lower steel. Please note that we don't mean a "compound" beam when we talk about weigh beams. We are talking about a double beam. On a compound beam the variation of even so little as the hundredth part of a single inch caused by wear or careless handling, might throw your scale out from 50 to 100 pounds. The double beam scale, far less likely to get out of order in the first place, may, if it does get out of order, be adjusted very easily. The levers of the "Renfrew" are solid castings, and are capable of carrying much more than their rated capacity. Please note that they are castings and not light steel levers. Steel levers invariably spring out of position with the first heavy load that is put on the scale. The knife edges on the "Renfrew" are all of oil tempered steel and cannot wear out. The bearing is self-aligning, and the scale is ready for accurate weighing at any time.

**RENFREW SCALE COMPANY**  
Renfrew - - - Ontario