

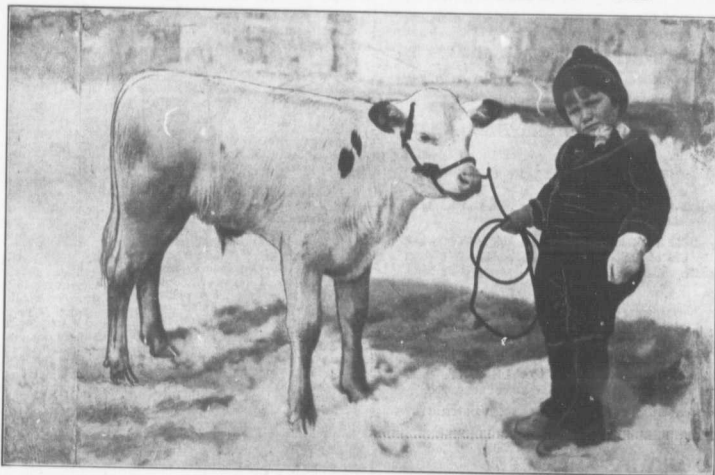
FARM AND DAIRY

RURAL HOME

PETERBORO, ONT.

DECEMBER 5

1912.



COURAGE! . . . AH, THAT'S WHAT WE NEED MORE OF IN LIVE STOCK BREEDING!

Probably everyone of "Our People" who read this inscription have at one time and another seen improved herds of cattle or of "blooded" Horses, Sheep, Swine or Poultry, and have thought, "My! I wish I owned them!" We ought to recognize that wishes are not usually horses! Superior live stock does not as a rule merely happen. It must be bred. It may be purchased. It is the outcome of some breeder having an ideal; then getting a start and working towards the realization of that ideal. What others have done we, at least in a measure, can accomplish. It invariably will pay us to develop a little more courage and go after the better things—certainly in live stock. The courageous little man here shown is Mr. Gordon S. Gooderham's little boy holding a pure bred Holstein bull calf at The Manor Farm, York Co., Ont.

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CANADIAN COUNTRY LIFE

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The B-L-K Mechanical Milker is a demonstrated success. It has been in use for several years on leading Canadian Dairy Farms. It is a demonstrated success—not an experiment.

It will pay to have a B-L-K Milker to do your milking.

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FERGUS, ONTARIO



"How Simple and Easy it is, Once You Get Started"

High Farming at Hilldale

By "Your Uncle Henry"

I promised you last time that when next I wrote I would say something about producing vs. selling. Since last writing I see the Farm and Dairy has been advocating that we have Selling and Salesmanship taught in connection with our Agricultural Colleges. I think this is a capital idea. For instance let us see:

I was over to the city the other day, and while talking about this subject with a business man he said: "The trouble with you farmers is, you don't know how to sell. How much business do you suppose I could do if I did like you do, just wait, and wait, and keep on waiting till someone came to buy my stuff? I have got to get out and sell my produce. I have got to get out and sell my manufactures. I do this through my travellers, if better, and through advertising. On the other hand you farmers just stay at home and wait till the buyer comes to you. Then he (the buyer) sets the price he'll pay! If you see the price, ten chances to one you will have to come around and accept what he offers you."

A THING THAT IS ALL WRONG.

Now I contend that this is all wrong. Why shouldn't we farmers know how to deal with our fellow-men? Why shouldn't we know how to go to the market—to the biggest and best market and sell just like any business man would sell?

I know of course that each one of us farmers cannot do this thing. Some of the bigger farmers can do it; I believe some of them are doing it in a small way. But we can get together through cooperation, and organize our business just like a manufacturer. We can send out travellers, if need be, to drum up markets. Anyway, by getting together and marketing our stuff in quantities, we can at least get the benefit of favorable prices, which go for big shipments of one kind of produce, and we can save on time in marketing and on freight rates.

Until we learn how to do big business in the way of making our own sales—until we learn how to find a satisfactory market for our stuff—and until our young friends who go to college after they get those departments of salesmanship for which Farm and Dairy is asking—we will have to be content to hire someone of our number who is especially fitted for this work to do our selling for us. As Peter McArthur so well brought

out in that paragraph of his which I quoted from the Globe last writing, there is a vast gap between the feelings and experiences of a man like you and me, when producing his crops and when marketing them.

A BIG SERMON FOR YOU AND ME I am afraid that too many of us have been working too hard. We have not taken time to read and to think, and to find out how we can better our conditions. You know they say in the city, that a man is worth \$1.00 a day from his ears down. From his ears up he may be worth \$10.00 a day, and as much more as he can earn!

I would ask you to take it from "Your Uncle Henry" that there is more in this statement than we probably think. We farmers need to take more time to think. It doesn't pay us to work so hard ourselves. We must get other people to help us with a part of this work. Then we ought to plan and organize our work, organize our business and our capital in such a way that those who work for us will be as well off as if, under old conditions, they were working for themselves. In the matter of selling we ought not to let this idea work on us the other way around! But until we learn, we shall have to get together and get someone who knows how to make big sales and get him to make them satisfactorily for us.

THE POINT OF THIS IDEA

Perhaps I have not made myself quite plain. If the editor will grant me the space for a conclusion, I would put it this way: We are living in an age of specialization. Some of us are producers. Many of us are not good sellers. We producers want all the fruits of our own labors. At least we want more than we are now getting. To get this we must learn more about how to sell, and when to sell. While we are getting this information and this training, it will pay us in the matter of the bigger things we have for sale, such as our apple crop (which by the way this year we could hardly sell in our district), we must hand together and hire the best fitted of our number, or some outside man, who is capable, to market 'his produce for us.

Next time I write I want to say something about a great big question, which concerns fathers and their sons, and which our farms has never yet had generally well solved. I got an idea in this connection while over in the city talking with a business man.

Issue Each

Vol. XX

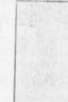
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Mr. A. J. T.

Tamblyn has grain growing raising of to do this in Farm and reader. *

Mr. Tam "reference in February.



There are many possible, how a young man in the illustration

Issued
Each Week

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Vol. XXXI.

FOR WEEK ENDING DECEMBER 5, 1912.

No. 49

THE TRANSFORMATION OF A FARM

The Story of a Young Farmer who has Made Good—How he Revolutionized the Methods Followed on His Home Farm and Doubled Its Revenue—A Story of Enterprise, Pluck and Success

WITHIN seven years Mr. A. J. Tamblin, of Orono, has doubled the average yearly revenue of his farm. He has done this without launching into any heavy expense, although he has been forced to completely change the method of farming previously followed on the farm. This is a creditable record. It has been possible in Mr. Tamblin's case only because he has first thought out things for himself and then, having faith in his own judgment, as well as a willingness to work hard, he has proceeded to put his ideas into effect.



Mr. A. J. Tamblin

Tamblin has changed over from beef raising and grain growing to the shipping of cream and the raising of pure bred dairy cattle. He was led to do this largely because of articles he had read in Farm and Dairy of which he is a careful reader.*

Mr. Tamblin's father, Mr. Albert Tamblin, *reference to this was published in Farm and Dairy in February, 1911.

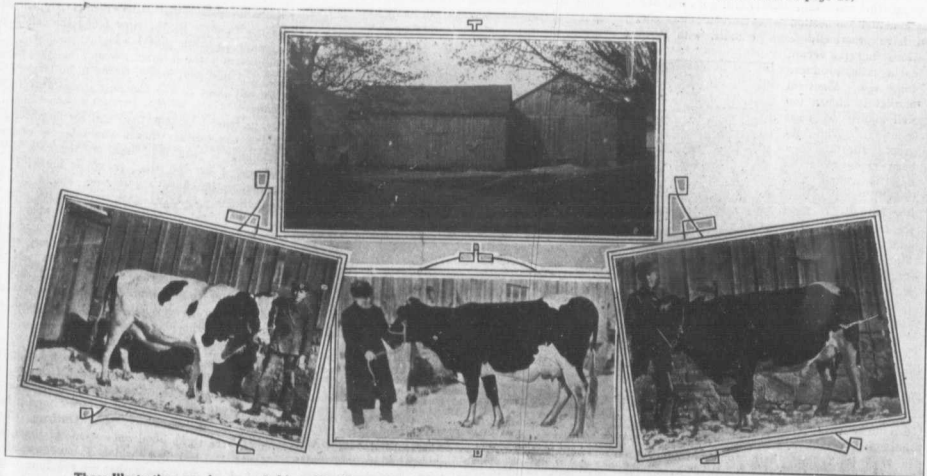
is recognized as having been one of the most successful farmers in Durham county. The home farm, on which John now lives, was entered by the father in the prize farms competition held some 20 years ago by the old Agricultural and Arts Association and won high honors. At that time, and as long as he managed the farm, which was until some seven years ago, Mr. Albert Tamblin raised beef cattle, sheep and grain, as well as a considerable quantity of apples each year. In these lines he was unusually successful, especially 15 to 25 years ago. He brought up a large family and has done well by all of them. He now enjoys the pleasure of seeing the success the members of his family have achieved, and naturally takes a deep interest in the accomplishment of his son John, who was the only son to remain on the home farm. At first, largely owing to the success he had achieved along other lines, he did not approve of the innovations introduced by John, but he takes as much pleasure in them now as does his son, and gives John all the more credit because of the difficulties he had to overcome before he was able to carry his plans into effect.

Mr. John Tamblin's control of the farm started in 1906. The farm has been visited at intervals

since by an editor of Farm and Dairy. The following story of the farm has been gained during the course of these visits. For two or three years John Tamblin had worked the farm with his father. They were still raising Short-horns and sheep and growing grain. "I knew that father had been successful on these lines," said John to us on one occasion, "but it did not seem to me that the revenue of the farm was as great as it had been years before, or as it might be made. I continued to follow this system, however, until I finally became convinced that conditions to-day have completely changed from those that existed even only 10 to 15 years ago. Since the development of the west, grain growing has not been as profitable as it used to be while the great growth that has taken place in Toronto and other cities has created a demand for milk and cream that did not exist before."

Such thoughts as these were pondered over for some time before it seemed wise to act upon them. In the meantime he began to wonder if it would not be possible for him to make a few changes in the farm buildings that would improve the comfort of the live stock and save considerable work for himself and the men. One day while working in the barn, it occurred to him that if there was a door in the end of the barn near the house he would be able to save a lot of time going to and from the house. This thought led him to see that time was being

(Continued on page 25)



These illustrations are accompanied by a Most Interesting Story of the Success that has Attended a Young Farmer on the Old Homestead

There are many of us who would like to have better stock, more convenient buildings, and who would gladly make many needed improvements did we have the capital. It is possible, however, to gradually acquire better stock and make improvements with a comparatively small expenditure of capital. Mr. A. J. Tamblin, of Durham Co., Ont., is a young man who in the last few years had made many radical changes and most desirable improvements on the old homestead, and these with a very small expenditure. In the illustration above, may be seen some of Mr. Tamblin's buildings and stock. The cow to the left, Trina Tooke De Kol, was one of the best pure bred heifers Mr. Tamblin ever owned. The door in the corner, between the two barns, is the subject of an interesting incident told in the editorial article.

—Photos by an editor of Farm and Dairy.

Profitable Ayrshire Herds I Have Known

Gilbert McMillan, Chateaugay Co., Que.

To write this article thoroughly would be something like writing my autobiography, as it appears to me that my connection with the Ayrshires extends about as far back as my memory.



Gilbert McMillan

In my connection with the Ayrshires, Providence has been kind to me; my experience has been picked up in herds that have made history for the breed; so to make mention of the profitable herds I have known will require a mention of all the herds which I have worked, as not one of these were of the unprofitable kind.

My first initiation to the Ayrshire game was given me at "Barcheskie," known in every clime where Ayrshires have penetrated as the fountain-head of many of the most noted blood-lines within the breed. To Canadians the mention of "Barcheskie" conjures up the names of "Duke Clarence," "King's Own," "Lucky Girl," "Heathflower," etc.; to me it recalls "Traveller," "Field Marshall," "Orange Blossom," "May Mischief," etc., equally famous in their day; but alas! Barcheskie is known now only as a matter of history; but in the Ayrshire breed the work carried out there will stand out longer even than a monument of granite.

From a purely commercial standpoint I do not know of a herd to-day that can equal Barcheskie (or rather Craigaoploch, where the dairy herd was kept) 15 or 16 years ago. Of course no individual records were kept, nor forcing practised, but what I am basing my assertion on was the measure stick in the cheese vat on the production of the entire herd of 80 head.

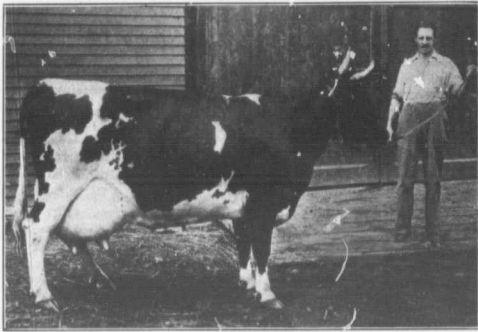
WITH CANADA'S CHAMPION HERD

Leaving Barcheskie, my next move was to a herd better known to the readers of Farm and Dairy, namely "Burnside," which might properly be named the "Barcheskie" of Canada; and it has this advantage that it still goes on. While my actual connection with Burnside was short, I have practically been in touch with it ever since and its record as a milk producer for the Montreal market is almost too well known to need mention. While no great efforts have been made to make big individual records, I know of very few herds that have the returns in dollars and cents equal to that of "Burnside," and as R. R. Ness will tell you to-day, the steady returns from his milk have done more to make him than the sales of his stock.

My next move was to the old-established "Ridgesside Herd" in Connecticut. This herd was established in 1863, its founder being one of the original members of the American Breeders' Association. This was one of the first herds in America to profit by the superior value of Ayrshire milk as a food for babies, this milk being retailed at 15 cents a quart under the name of "Heygia"

milk long before the certified milk trade was thought practical.

My next step was to the "Barclay Farm" herd in Pennsylvania, one of the pioneer herds in the Advanced Registry movement that has now become so popular. And I believe I have the honor of milking for the first three months of their



"Jean Armour," the New Dairy Queen of the Ayrshire World

Jean Armour has now to her credit the splendid record of 23,174 lbs. of milk and 774 lbs. of butter fat, equal to 963 lbs. of butter produced in one year. This exceeds the former world's record by over 2,000 lbs. of milk, but does not quite equal it in butter fat production, as Netherhall Brownie 9th produced 629.9 lbs. of butter fat. Jean Armour was bred and owned by John McKee, Norwich, Ont., and is now in the herd of Mrs. Ehardt, West Berlin, Va. Canadian breeders will all rejoice in the triumph of this Canadian bred cow in her American home.

test the first three two-year-old heifers to go over 8,000 lbs. This was considered something abnormal then, but which looks small in comparison with the records of to-day. A great deal of credit is due to the late Mr. Oakey for the work he did in helping to start the movement and the records made then on Auchenbain Denty 9th and Finlaystone Maggie 2nd still read well with the records of to-day. It was here I first began to see how far short we were of knowing the full capabilities of our cows and what could be accomplished by intensive work. Many of the lessons learned there have proved invaluable to me.



"Cressville Vale," Another World's Champion Milk Producer

The cow here illustrated, owned by the Fred F. Field Holstein Company, Brockton, Mass., has recently completed a record of 29,634 lbs. of milk in one year, making her the greatest milk producing cow in the world. Notice the similarity in type of this cow and the champion Ayrshire cow of the world illustrated above. Could we offer better proof of the relationship between dairy type and producing ability? Breeders of dairy cattle would do well to study these illustrations and fix this type in their minds as an ideal to be sought after.

My next move was rather a long one, but it still found me allied to the Ayrshire and under conditions almost ideal for her development. While all the herds I have already mentioned have gained fame and honor, I firmly believe

(Concluded on page 22)

The Story of a Pure Bred Herd

Fred V. Woodley, Norfolk Co., Ont.

At the time my father stepped aside from active farm life, some 10 years ago, and gave the reins over to me, the dairy herd on the farm was composed of nine cows of what we then considered very fair animals.

They were of mixed breeding, no special breed or line of breeding having ever been followed. They were as good a herd of milkers as was ordinarily found and at that time where no special care was taken as to the selection of sires and so forth. No individual milk records were kept. The largest cheese cheque ever received from the nine cows for one month was the sum of \$45.

It began to dawn upon me about the time that I took over the farm that there might be an improvement made in the dairy, and I decided to purchase a pure bred Holstein sire and watch the result. My first sire was bought from Mr. S. G. Kitchen, St. George, and we used it with good results. Soon after I discarded two of my poorest cows and replaced them with two splendid Holstein grades. I gradually kept trying to improve and graduate them for three or four years until I had a herd that was a marked improvement over the herd with which I started.

MY FIRST REAL START

Six years ago this month I attended Mr. J. W. Richardson's first sale and before I got away I had purchased a heifer calf and Mr. Richardson had the \$100 which I happened to have with me. By the time I had the calf home I began to think that I was fast becoming a subject for the insane asylum, as the money which I had paid looked to me to be larger than the calf; but it was the best investment I ever made.

The more I looked at the calf the more forcibly did it come to me that I would be for ever developing a pure bred herd at the rate I was going. I decided that, make or break, I was going to purchase a few cows and a sire for a foundation. As we have only the 100 acres of land it seemed to me that if two neighbors could combine their herds it would give them a better market for their surplus stock, as every second year they could make a combination sale and dispose of such as they deemed fit. I spoke of the matter to my brother-in-law, who was also endeavoring to develop a pure bred herd, and we adopted the plan then and there.

SOME OF MY HERD BUYS

I next purchased a sire and also a heifer from the herd of Frank R. Crandell, Michigan, and a cow from H. E. George, Putnam. The following winter I purchased two cows and a heifer from W. H. Simmons, New Durham. These cows were right good ones. One of them, Katy Kents De Kol 2nd, which I have owned and milked for four years, has in the four seasons given over 41,600 lbs. of milk which, valued at 90 cents a cwt., amounts to \$369. I sold a

(Concluded on page 22)

Our colts neighbors, We know it will get even now. We do our colts lo as nicely f nature hor colts in grow the same time digested o stitution th disease an The shee keep our co or four in tight enoug draughts. the door i have the barnyard are closed i very storm other times then out i air.

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The Colt in Winter

L. C. Smith, Peel Co., Ont.

Our colts, according to some of our outspoken neighbors, are a shaggy, homely looking lot. We know it; and as the weather gets colder they will get even shaggier and homelier than they are now. We do not aim to keep our colts looking as slick and as nicely formed as the mature horses. We keep our colts in the condition in which we believe they will grow the fastest and at the same time build up strong digestive organs and a constitution that will withstand disease and hard work.

The shed in which we keep our colts, usually three or four in number, is built tight enough to exclude all draughts. Most of the time the door is open and they have the freedom of the barnyard all winter. They are closed in at night and on very stormy days, but at other times we usually find them out in the pure fresh air.

Naturally they have developed a very shaggy coat, and from our methods of feeding they have big bellies that in a full grown horse would be very objectionable. But that doesn't worry us. We



Sheep Raising as it is To Be

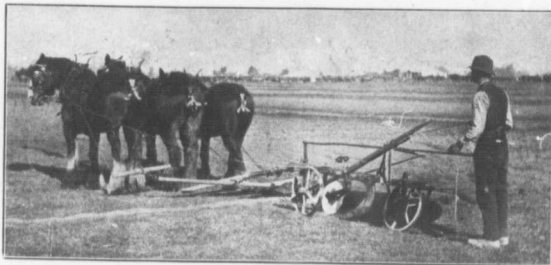
In the past manufacturers of woolen goods have gotten their supplies of wool largely from the ranching districts. Mutton has come from the same source. Ranch farming is now passing away and in the future manufacturers and packers must look for their supplies of wool and mutton from small flocks kept as a side line to general or dairy farming. Flocks such as the one here illustrated, that of Hugh Linn, Halton Co., Ont. will be more common as their profitableness is more appreciated. —Photo by an editor of Farm and Dairy.

know what the result will be. Our staple feeds are oats and bran, the oats being crushed at the mill and mixed with the bran. These feeds seem to have just the proper constituents to make the best kind of bone and muscle. In addition they get all the hay that they will eat and occasionally a few roots. Once in a while they get a hot mash.

I often wonder if some of the horse judges at our shows ever raised any colts themselves. They seem to think that the young animals one or two years old should be just as trim and neat in the middle and as slick in the coat as the horse of five years. Were colts judged as they are in the old country, on quality and indications of constitution, I would be inclined to show at some of our fairs. With judging standards as they are I must stay at home.

That poor 3,000 pound cow has been hauled over the rocks so much that I must protest. I have an idea that that much abused cow would do much better if she got a half decent chance.

We have them in our neighborhood. They usually put in the winter on timothy hay. What could you expect from rations like that! A little alfalfa hay, a feed of grain occasionally and good care would make 7,000 pound cows out of lots of them.—A. McBain, Grenville Co., Ont.



Horses of this Type constitute the Finest Farm Power in the World

Mechanical powers, such as electricity, gasoline and steam, may displace horse power in many occupations, but the day is very far distant when the motor truck and the traction plow will take the place of the horse on the farm. In spite of the numerous improvements in mechanically propelled machines and their wide adoption in countries where extensive farming is the rule, there is a greater demand for heavy horses today than ever before and the prices paid are higher. Horses such as the Clydesdale horses illustrated, big drafters weighing 1600 and 2000 lbs. will always command a ready market at a profitable price. Good masses of the type here illustrated are profit makers wherever they are found.

Sheep on a Dairy Farm

S. A. Northcott, Ontario Co., Ont.

Why is it that the number of sheep kept on the farms of Ontario is declining each year? Some claim that the dog nuisance makes sheep raising unprofitable. Others do not keep them on account of poor fences. Still others think that sheep graze pastures so closely that they deprive cattle of the food they should have in summer time. Others again claim that they need all their winter feed for other stock.

Although some of these objections may be reasonable in some cases I believe that the dairy farm is a rarity where sheep cannot be kept at a profit. A few years ago I bought four of the best Shropshire ewes I could get in this part of the country; and it was not long until the dogs killed the lot in one night. I made up my mind to get my money back from that very same branch of livestock on which I had lost it. I went out and bought 15 more. Other farmers who had a fair-sized or large flock did not seem to have so much trouble with dogs as those who only had a few. This has been my experience; since I have had from 15 to 30 sheep the dogs have not bothered me.

I consider sheep one of the best styles in weeders. There are always a lot of grass weeds and other weeds of a still worse character around the fences, in the fields, and on the roadside that need to be cut. Instead of doing a lot of this work by hand, give the sheep a chance. They will make a far better job of it. In the spring I let my sheep trim around the fences in the fields intended for

(Continued on p. 21)

Show Ring Consideration of Production

Jno. McKee, Oxford Co., Ont.

I have often been asked if it would not be possible to combine the good features of the dairy test and judgment on conformation in placing the awards on dairy cattle in the show ring.

I have heard the suggestion made that a score card be followed, a certain number of points to be awarded on known production.

I do not think the scheme would be very practical. It would require our most expert judges to do the scoring, and even then I am afraid there would be a considerable variation in the scoring by different judges. We may here learn from the experience of poultry men. At the Ontario Poultry Show, where the fowls were formerly scored, the judging now is done entirely by comparison.

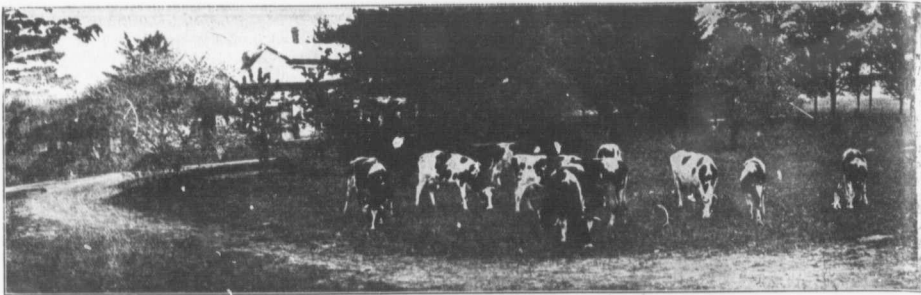
I believe, however, that the principal objection to the scheme would be that it would place at a great disadvantage many cows capable of making great records, but that have not been given an opportunity to do so. If all the cows on exhibition were tested under the same conditions and had equal opportunities to show the best that was in them in the matter of milk and butter production, then the proposed scheme might work out fairly well if applied by our most skilled judges. But when one takes into consideration the varying circumstances and conditions under which different cows have made their records, it may be readily seen that the record possessed by the cow is not a true index of her capability as a milk or butter producer. Some cows get the very best care and treatment, are milked three times a day almost the whole year through, and are heavily grain fed from one year's end to the other. Other cows have made their records under ordinary conditions, receiving nothing but pasture from the time they were turned out in the spring until they were stabled in the fall and milked only twice a day at any time. (Concluded on page 25)



In Their Owner's Estimation an Ideal Farm Team

Mr. B. Roberts, Peterboro Co., Ont., the owner of the team of draft Percherons here illustrated, does not believe that the style of horse in demand on the market, "the heavy drafter" and the horse best adapted to the requirements of farm work, are two different types. The rapid adoption of heavy, wide working machinery, such as the double furrow plow, the big disk, the six-foot blinder and the seven-foot mower, all tend to make the heavy horse more popular with the farmer. When we breed heavy horses, nowadays, we are producing the kind that will command the top of the market either in the city for draft purposes or on the farm.

—Photo by an editor of Farm and Dairy.



A Scene in Oxford County, Ont., Where Good Dairy Cattle and Prosperous Farmers are the Rule

Where we find farmers with large dairy herds, intelligently managed, there do we also find greater prosperity and more contentment than in rural sections given over to other lines of agriculture. The home and herd here illustrated are the property of Mr. Frank Griffin, Oxford Co., Ont., a county in which we found many farmers who have attained a competence through their dairy herds. Anyone who knows of Oxford county and its record as a dairy district cannot doubt that the "dairy level" is one of the best things that can attack the people of a county. It means a more fertile soil, a stabler population and a better satisfied people generally.

Dairy Cattle in Community Development

By "A Native of Oxford"

Oxford county of Ontario affords us a splendid example of the name and fame that may be acquired by any district that goes in for some one breed of dairy stock. At the last Canadian National Exhibition, the greatest annual live stock show in Canada, practically every prize winning animal was either owned by an Oxford county exhibitor or was the product of some Oxford farmer's skill as a breeder. During the first day of the Holstein judging at Toronto all of the prizes except one were captured by Haley Bros., of our banner dairy county. Away down east in Nova Scotia, and in the far western province of British Columbia, the leading prize winners in the Holstein classes at their fairs this year were Oxford bred animals. "Bred in Oxford county," has come to be regarded as a passport to excellence in the extremes of our Dominion. Who has not heard of James Rettie, A. E. Hulet and Geo. Rice? There are dozens of other breeders in our county not so well known, but who are "making good" with their black and white favorites.

While our pure bred herds have made a name for Oxford county in other parts of Canada, the pure bred stock in the county has been doing a great and good work for every farmer who will take advantage of his opportunities. Herds that 10 or 12 years ago were composed of mongrels of nondescript breeding and producing their 3,000 lbs. of milk annually, are now made up entirely of black and white grades producing their 6,000 to 16,000 lbs. of milk a year, and this without any very great expense to the owners. It is the result of pure blood introduced into mongrel herds.

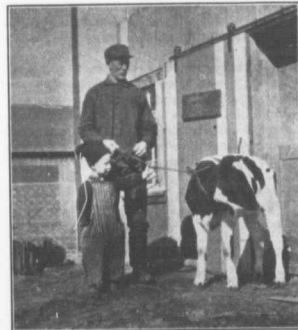
BUYER SALES ARE RESULT

Buyers are beginning to find that in Oxford county they can pick up good animals without travelling very far, and in a short space of time. There is some satisfaction in buying cattle where practically everybody has at least a few good ones. There are lots of other sections of Ontario with good Holstein herds; but in Oxford county we have quantity as well as quality, and hence buyers come our way.

I have often heard visitors to our county remark on the splendid farms and farm buildings that are in evidence everywhere. Brick and stone residences that would do credit to any prosperous city merchant, grace our dairy farms. I have travelled pretty extensively, but I have yet to see the section where the crops and buildings, on the average, can excel those of Oxford. And there is a direct relationship between the quality of our stock and the splendid farms and farm buildings that are ours. There are hundreds of our

citizens who can remember when Oxford was not one bit better in any particular than any other good farming section of Ontario. This development we all agree is due to dairying. And our prosperity and success is now being accentuated just in so far as we go in more and more for pure bred Holstein cattle.

This article is intended as a boost either for Holstein cattle or for Oxford county. It is written to show the part that pure bred dairy cattle can be made to play in community development. To find a section that compares with Oxford county we must go down into the Chateaugay District of Quebec, where the Ayr-



Starting in the Way He Should Go

Mr. J. J. Tannahill, of Huntingdon Co., Que., and his young grandson may be here seen examining the good points of one of the members of their own Holstein herd. There is nothing like good stock around the farm to inspire the youngsters with a love for the farm and to give them an interest in farm life!

shire has done fully as much for that district as has the Holstein for us. Many may disagree with me in my estimate of the excellencies of our county, but that there are excellencies all will agree. If citizens of Oxford county be questioned as to the cause of their prosperity, the lesson learned will give one a new appreciation of the beneficial effects that flow from community breeding and dairying.

Don't leave ends of wire lying along fences after building or repairing. You'll be sure to talk about it the first time you run into them with the mower.

Scientific Plant Breeding in Scandinavia'

L. H. Newman, Ottawa, Ont.

The scientific breeding of more-useful varieties of field crops, which has reached so high a point in Sweden, has come to be looked upon in that country as a work of great national importance. It is clearly a matter of concern to the nation to have varieties of crops which are capable of thriving to advantage over a large part of the country and furnishing a means of livelihood to a large population.

Sweden is a country of extremes. In the south her climate is maritime, and is greatly modified by the Gulf Stream. As we proceed northward over the 1,000 miles of territory which separate the northern and southern extremities, it naturally becomes cooler and also more variable, due in part to the presence of many lakes and rivers. The precipitation is also exceedingly variable, both as to distribution and as to season. Certain parts scarcely ever obtain sufficient moisture; others receive an excess although, unfortunately, this comes during harvest time. All these circumstances mitigate against successful crop raising so that the advent of a new variety which is better able to cope with the conditions of a given region is a matter of great importance to the community and to the nation. Thanks to the work of the Swedish experts several superior varieties of the leading crops (wheat, oats, barley, peas, vetches, grasses, clovers and potatoes) have been produced, and profitable crops are now being raised in districts which previously reaped but a scant return.

It is exceedingly interesting and inspiring to see with what interest all classes of people follow the agricultural development in this country of patriots and how fully they appreciate its far-reaching importance.

"Pure bred" is not a pass word to excellence. "Pure bred, well bred," is.

We have farmers here and there are likely the same in every neighborhood, who farm altogether with old tools. They keep up their supply from public sales where they get what they call bargains. So far from being bargains, the average old farm tool is about the fastest money-loser we can conceive of. An old corn planter that is not dropping just right can lose a man money faster than anything else on the farm.—S. F. Oxford Co., Ont.

*Mr. Newman's book, "Plant Breeding in Scandinavia" (192 pages with 25 illustrations, \$1.00 net, cloth-bound \$1.50) to which reference was made in a recent number of Farm and Dairy, deals with the whole subject of plant improvement as practiced in Sweden, in a concise and instructive manner.

Management of a Great Ayrshire Herd

Hector Gordon, Chateaugay Co., Que.

In handling our breeding herd our aim is to have our cows fresh in the fall of the year as much as possible. We find that cows calving just after they are nicely settled in the stable milk through the winter months when milk is scarce in the cities and prices are a half better than in the summer; then when June grass comes along our cows have a second lactation, as it were, and are ready to go dry in August when the flies are bad and grass is beginning to dry up.

We begin breeding our heifers a little earlier. Heifers calving on the grass develop better udders than when they are being heavily fed in the stable. We always plan to have a good after-growth to turn our heifers on in September and October. We keep them milking up to the end of August the next summer, and bring them in again in November, thereby giving them a full eleven months to milk and two months to rest. We do not like to feed a heifer much grain during her first lactation period, but when she is dry we feed heavily to get her in condition for her second period.

Some breeders make the mistake of breeding their heifers too young. We like our heifers to drop their first calves at from 34 to 36 months of age, as they make bigger and very much stronger cows than heifers bred to calve earlier.

The Shorthorn as a Milch Cow

A. W. Smith, Middlesex Co., Ont.

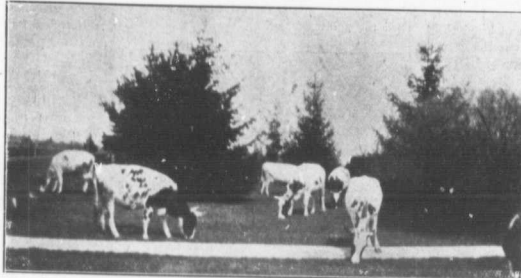
The interest taken by Canadian breeders of Shorthorn cattle during the last five or six years in the improvement of the milking qualities of the breed, has been much greater than for many years previous. There is a good reason why. Demand has grown for a class of cows possessing the good feeding and beefing qualities of the breed and at the same time the ability to give a good and profitable return in milk. The demand for that class of cow is becoming more insistent and Shorthorns must fill the bill.

Many are the references to the grand, big, broad-backed cows our fathers and grandfathers had: cows that filled a 12 quart pail twice a day, and often required a second pail to carry away the milk. At the same time these old cows furnished the feeders with big, easily fleshed and fattened steers to make profit from their coarse grains, roots, fodder and grass.

A LARGE FIELD FOR THE SHORTHORN

The demand for cows of this class comes very largely from the general farmers of the Dominion, probably forming quite a majority of all who raise cattle. With the increasing scarcity of help to conduct a strictly dairy business, the number wanting dual purpose cattle is likely to become much more numerous, a very considerable inquiry now coming from men in sections of the country very largely occupied by cheese factories, and where the strictly dairy breeds have for many years overwhelmingly predominated. These men generally wish to buy bulls from Shorthorn cows of good beef form and that are good milkers. Their desire is to improve the beefing qualities of their herds, that they may make profit from raising the calves, and at the same time largely retain the flow of milk from their cows. And a hopeful sign is that those farmers are more and more recognizing the value of such bulls. Hav-

ing been used to purchasing bulls of the dairy breeds at much lower prices they at first failed to see the increased value of one that will answer the purpose both ways. Unfortunately, much damage has been done to the quality and value of the beef produced on the farms of Canada by the indiscriminate introduction of crosses



It is Herds such as This that Make a Poor Man Rich

"Pure bred stock may be alright, but then I am just a poor farmer and can't afford it." Wm. Thorny, Norfolk Co., Ont., the owner of the Ayrshire herd here seen, tells a different story. He says And he speaks from experience. Of course the man with limited capital cannot immediately establish a pure bred herd. But many herds just as good as the one here illustrated were started in a moderate way with a pure bred sire and a heifer or two. What others have done we can do also.

of the dairy breeds upon the herds of those who raise their calves for beef, while doing a dairy business in a small or larger way with the creamery and cheese factories.

The Shorthorns are as good milkers by nature as any of the strictly dairy breeds, and careful selection would very soon make them as large producers in the dairy as the cows of any breed, as has been proved in the dairy herds in England.

AN IDEAL DUAL PURPOSE COW

But the Shorthorns stand out as more valuable to the general farmer in their suitability for the profitable production of both beef and milk. My own idea of the dual purpose Shorthorn is to retain their splendid beef form in all its excellence, and at the same time have the cows produce all the good milk possible, and I believe it possible and not difficult to have very great development of milking qualities without at all sacrificing the best beef form. It may be easier,

(Continued on page 27)

Does Record Making Injure Cow?

Geo. Laidlaw, Elgin Co., Ont.

I have often been asked if the forcing of a cow for a big record is not apt to injure her? I feel certain that there is a danger of injuring the health of a cow by getting a little too anxious while making large records and feeding be-

hind the danger point. On the other hand there is nothing that will tend to the building up of a dairy cow like feeding for records. Of course the cow must be in the hands of a good, but not over anxious, feeder; by over anxious I mean one who desires to get a little more milk from his cow and knows there is a chance of doing so by feeding more, but may not know just where to draw the line in order to preserve the health of his cow. The old saying that "It is the last straw that breaks the camel's back," holds good here.

We consider that the greatest danger of cow injury comes in the long time records, especially with heifers. We do not believe the short time records to be as injurious as the yearly records.

With the short time records one may make a large record from a cow year after year and still give her a good rest from heavy feeding between records, while with the long time records the cow does not have the rest from heavy feeding.

I do not mean to discount the value of yearly records. I consider them to be the most valuable records we have. But in making the large records it is very necessary for the feeder to thoroughly understand what his cow will stand without overdoing her.

I will illustrate by a grade cow that we raised. She was an extra good heifer, and naturally we were especially interested in her welfare. She never made a poor season and was always well fed. I can remember that some of our neighbors remarked, while she was in her prime, that she would not last long because she would wear herself out. When this cow was in her fourteenth year we put her in a dairy test at London Fair, where she won first place competing with

(Continued on page 22)



Scenes such as This are Becoming More and More Common on British Columbia Farms

The number of pure bred dairy cattle in British Columbia is increasing at a wonderful rate. Many, perhaps the majority of British Columbia dairymen, are farming on very high priced land. If they would show a profit on their investment, they must have cattle of the most profitable kind. Hence the growing popularity of the pure bred dairy cow. The scene here illustrated is on the farm of A. H. Menzies and Son, Ponder Island, B. C. This is one of several splendid Jersey herds in that province.

A FARM AND STOCK GOOD TO LOOK UPON

A Father and Two Sons Who Have, in Elgin Co., Ont., a Home and Farm Such as Anyone Might Wish For, and Who are Breeders of Pure-Bred Registered Horses, Hackney Horses, Leicester Sheep and Yorkshire Hogs

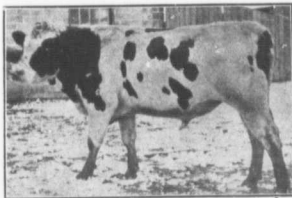
ONE thing more than others that delights the editors of Farm and Dairy is to visit at a farm where pure-blooded stock is bred, and where father and sons work together in harmony and seek to build up herds and breed the best in pure bred live stock. It was the great pleasure of one of the editors of Farm and Dairy last week to visit at the Spruedale Stock Farm, the home of A. Watson and Sons, some five miles west of St. Thomas, Ont., in Elgin county, and to see just this ideal in its working out. These breeders specialize in Holstein-Friesian cattle. They have a more creditable and fairly large herd of Yorkshires, also a flock of Leicester sheep, as well as Hackney horses, of which they might well be proud.

It is scarcely five years since Mr. Watson moved on to his present farm in Elgin county. Previously he had farmed north of Toronto, and near Bedford Park. The city on growing out towards his farm made his land more valuable for city lots than as a stock farm, and he therefore looked elsewhere, finally settling in as fine a district as one could wish for, west of St. Thomas. As yet Mr. Watson has not had time to get everything into the shape he might desire about his farm and buildings. The photographs reproduced in connection with this article give our readers a very fair impression of the splendid home and the up-to-date barn, which Mr. Watson has.

In breeding his Holsteins Mr. Watson has been singularly fortunate in the type and breeding of the cows he possesses, and in the great preponderance of heifer calves, which his cattle have given him. Over 90 per cent of the calves from the bull he has been using for the past two years have been heifers. This bull is King Peter Teake, a three-year-old out of Queen Maybee, an advanced official registry cow, and sired by Peter Teake, O. A. C. A photo of this bull is reproduced on this page. It shows him to be an unusually straight individual, in fact he is a show bull, having been shown three times and won three first prizes. He is a bull of good quality. Shows that masculinity, which all good breeders like to see, has plenty of bone, and his heifer-breeding characteristics are such as will appeal to any breeder. Mr. Watson offers this bull for sale, in order that he may avoid in-breeding.

Mr. Watson has gotten to that point where he

will test and make official records of all of his cows, as they freshen. Just now his cows are mostly dry, and they did not show to their best advantage when we saw them. However we recognized the points of sterling worth in his Hol-



King Peter Teake—A Heifer Breeder

The breeding of this bull and some interesting facts about him are given in the article adjoining. He is for sale.

steins. His cattle are big-framed individuals, having plenty of substance, good constitution, and capacity, and give every appearance of being workers and good producers.

CATTLE OF POPULAR TYPE

Amongst others in the herd, we noted two heif-



Wenona's Jubilee

Both of these Hackney stallions are prize winning high steppers. (See facts as given in article adjoining). They will both show at Guelph Winter Fair next week. Wenona's Jubilee is for sale. Mr. A. Watson appears in the illustration holding the horses.

Guelph Performer

ers, bred by that noted sire Cornelius Pesch. One of these is out of a grand good cow, Lady Amethyst's Amella, which Mr. Watson secured some four years ago from W. G. Ellis, of Bedford Park. The young stuff all through appealed to us as being good. Two individuals caught our eye particularly, these being Queen Male Lad and Spruedale Mabe, a half sister of her's. These cattle were of that low down, thick-set type, having fine capacity and wonderful constitution, with fine heads and muscles, giving every indication that they would be able to stand up to the heaviest work, when their day comes round for big milk and butter production.

In the herd of mature cows, we noted some iris-

toctors, one being Lucilia Pieterije, an imported cow, and two grand-daughters of that noted cow Clarabell Sjut, a cow which made a big name for herself at the World's Fair at Chicago, having given over 16,000 lbs. of milk in 10 months as a two-year-old, and carrying a calf at the same time. This cow at Chicago won four prizes as an individual, and was in the second prize herd.

Recently Mr. Watson disposed of the one bull calf he had for sale, selling it, through his advertising, to Mr. J. E. Watson, of Myatic, Que. Other than his main herd bull, which he offers for sale, he also offers two and three-year-old heifers, and mature cows.

As a horseman as well as a Holstein breeder, Mr. Watson excels. He had in his stables, two stallions, photos of which we reproduce herewith. These are Luth Hackneys. One of them, the older horse, is Guelph Performer. He won first and sweepstakes at London this year, first for stallion and three of his get, and first as a high-stepper, and also captured the silver medal. As may be seen from his photograph, this horse is a very attractive individual. Moreover, he is very kind in disposition, and is most tractable. Mr. Watson works him right along like an ordinary horse. He never "travels" him, but stands him for service at his stables. This past summer he received 56 mares at home, and only three returned to him.

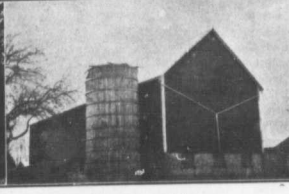
The other Hackney stallion is a three-year-old, also illustrated on this page. He is bred from old Jubilee Chief, and is named Wenona's Jubilee. He was second at Toronto in strong company this year, second also at London as a high stepper, being beaten only by his stable mate, Guelph Performer. This stallion, Mr. Watson is offering for sale. He will have both of these horses at the Guelph Winter Fair next week, where Wenona's Jubilee may be seen and inspected by those desiring to purchase him.

Amongst the mares we noted as being worthy of particular mention, Wenona Dainty (Imp.) She is a truly remarkable mare, although now well up in years, about age 20. She is one of the individuals brought into Nova Scotia several years ago to improve the breed, and was afterwards purchased by Senator Black, and afterwards passed into the hands of Mr. Watson. She has taken a lot of first prizes, and well she might. Everything in her favor as regards size, conformation, and feet and legs, and even to-day she shows right trappy action and appears to be good for many years yet, and is again safely in foal. Mr. Watson has been successful at the shows with her foals.

(Continued on page 21)



Attractive Home of A. Watson & Sons



The Main Barn and Silo



The Home in Winter Dress

—Five photos by an editor of Farm and Dairy

PROGR breeding own p demands of tain to such Messrs. Horton, Ont. has had nu as breeders heres—this many other because re out in detail. About two ive stockme convictions the heavy h ready, now uly last s importation illies. The Percherons In order th might know horses, and Tisdale be ple," one of of Farm and recently to Beaverton, O. and the phot "Simcoe I Messrs. Hod fully situated farm compr



Kabo
The three stallions

level, under-d acres—we hav built to serve moon sense w needles snugly breaks. It is ter than desc photos of hou It is now 38 in Beaverton He started in



Bares

AT HOME WITH A HEAVY HORSE IMPORTER AND BREEDER

PROGRESSIVE indeed is that man who in breeding live stock seeks not so much his own prejudices, but rather to satisfy the demands of an exacting public. Success is certain to such a breeder:—it has come to Messrs. Hodgkinson & Tisdale of Beaverton, Ont. We believe this one thing has had much to do with their success as breeders and importers of heavy horses—this, of course, together with many other things adopted first of all because right in principle, then worked out in detail.

About two years ago these progressive stockmen concluded to act on their convictions that the Percheron horse is the heavy horse soon to be (if not already, now) in best demand. Accordingly last season they made their first importation of Percheron stallions and fillies. Their second importation of Percherons they have made this year.

In order that Farm and Dairy readers might know more about this class of horses, and that Messrs. Hodgkinson & Tisdale be better known to "Our People," one of the expert live stock editors of Farm and Dairy made it convenient recently to visit "Simcoe Lodge," at Beaverton, Ont., to get the information and the photographs as given herewith.

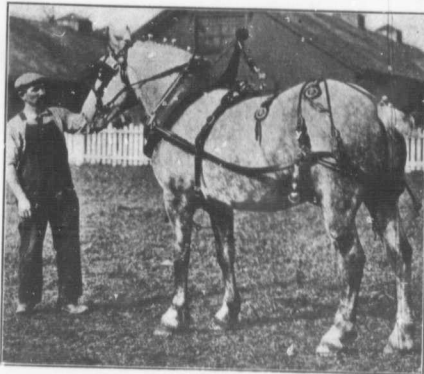
"Simcoe Lodge," which is the home of Messrs. Hodgkinson & Tisdale, is most beautifully situated on the shore of Lake Simcoe. The farm comprises one of the nicest stretches of

years now past he has handled a great many Clydesdales, his specialty being mares. His partner, Mr. E. G. H. Tisdale, is his nephew, whom he has raised and brought up in his

then the people seem to want the Percherons. It is our business to give them the horses they want.

One thing we noticed especially, so different to many Percherons we have seen, was that every individual in the barns at "Simcoe Lodge" have the best of feet and legs. The Americans have always paid attention mainly to tops. Feet and legs they often seem to have overlooked in their Percherons. Messrs. Hodgkinson & Tisdale have emphasized both these most important points. Their Percheron horses have that quality and flatness of bone, that obliquity of pasterns, those good-sized feet of the right shape—which all heavy horsemen like so well to see. In action, too, they have been very particular. All of their horses "go good"; some of them (especially Jurat mentioned further on in this article) have wonderfully good action. The two-year-old stallion Kabot, shown on this page, goes very high and straight. Dr. Cowan, one of the Ontario Government Inspectors, recently at "Simcoe Lodge," pronounced this horse and his action,—"the Aristocrat."

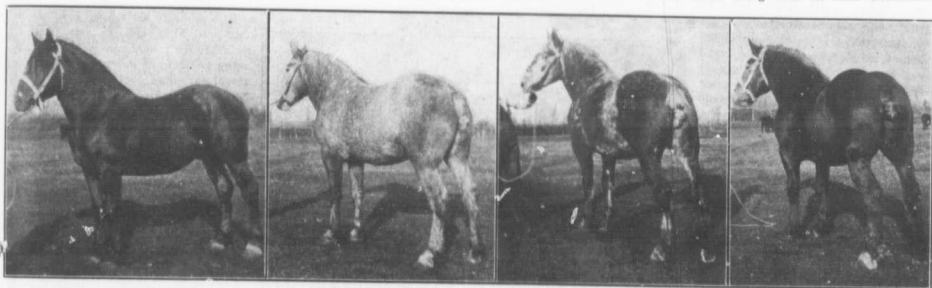
While we have written mainly of the Percherons at "Simcoe Lodge," we would have our readers note that Messrs. Hodgkinson & Tisdale have also Clydesdales,—these of good type and size, as has all ways characterized their importations. They are all listed along with all their Percherons



Isaac (Imp.) 3 Year Old Percheron Mare—a Champion

breeding and importing business.

Asked why he was now favoring less the Clydesdales, Mr. Hodgkinson replied, "There is no money in them now; the bottom has been



Kabot (Imp.) [3001] (90448)

Kanaile (Imp.) [2958] (92259)

Kaimacan (Imp.) [2952] (90427)

Jerial (Imp.) [3005] (84143)

The three stallions and three fillies, all Percherons, shown on this page are characteristic of the string of Percherons imported by Hodgkinson & Tisdale, of Beaverton, this year. These breeders and importers have a catalogue, which they will gladly send prospective purchasers.

level, under-drained, black rich soil—over 350 acres—we have ever seen. The barns are large, built to serve the purpose intended, and yet common sense without extravagance. The house nestles snugly in amongst the trees and wind-breaks. It is very cozy and attractive. (Better than descriptions we might write are the photos of house and barns shown on this page.

It is now 38 years since Mr. Hodgkinson went to Beaverton and established "Simcoe Lodge." He started in with Clydesdales. During the

knocked out of the business by the great preponderance of scrubs that have been brought over. Most people cannot tell a really good horse, mare or stallion, and they prefer to buy at a low price for "any old thing" that represents a ing, than value stance we have brought to give reasonable for a good one of sub- and quality such as always out. And



Jusant (Imp.) [2140] (86059)

in their new catalogue—a fine sample of high-class printing—which they will send you free on request.

The Government Inspectors recently went most carefully over the entire stock of horses at "Simcoe Lodge." They pronounced them all sound, not a blemish—all eligible for enrollment under the strict requirements.

Amongst others of the horses we inspected while getting this information were those men-

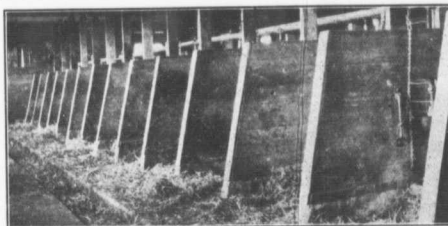
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Barns at "Simcoe Lodge"—Big Horse Barns at Right

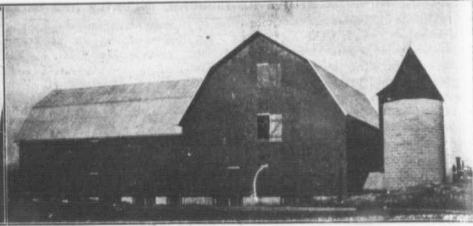
The Comfortable Home at "Simcoe Lodge"

—Seven photos by an editor of Farm and Dairy.



An Interior View of Mr. F. R. Mallory's Barn

This grand new barn has many commendable features about it. Note the style of the cow stalls. They were especially designed for use in record-making work. Note the cement base to each partition, also the water bowl—one to each two cows. The outside of the barn is painted green. Farm and Dairy will have more to say of this barn in an early issue.



Mr. F. R. Mallory's Barn Viewed from the Exterior

A GREAT FAMILY IN A GREAT HERD—HOW IT WAS OBTAINED

A Review of the Great "May Echo" Family of Holsteins, Bred and Developed for Many Years, and Now the Property of Fred R. Mallory, of Frankford, Ont.

THOSE who have heard of the great May Echo—the cow which gave 23,707 lbs. milk, 1,042 lbs. butter in one year,—in all probability would like to know something of the herd in which she was bred and developed and of quite a string of her descendants that are in this herd. These descendants, of which there are some 17 in a direct line, show striking characteristics similar to their illustrious progenitor. They are piling up some wonderful records in milk and butter production. They have not by any means reached their limit. Bigger and better things may be expected even yet of them.

No less than 14 of these direct descendants of May Echo are to be found to-day in the herd of F. R. Mallory, at Frankford, Ont. Believing that a great many readers of Farm and Dairy would be interested in this great herd at the Lawncrest Farm, one of the editors of Farm and Dairy recently went especially to Frankford to get the information given in this article for our Fourth Annual Breeders' Number.

Mr. Mallory has only within the last year completed his splendid new barn which we photographed and illustrate at the top of this page. It has many points of decided interest; these we will tell you about in Farm and Dairy at a later issue, since we wish on this special occasion to write mainly about his Holsteins.

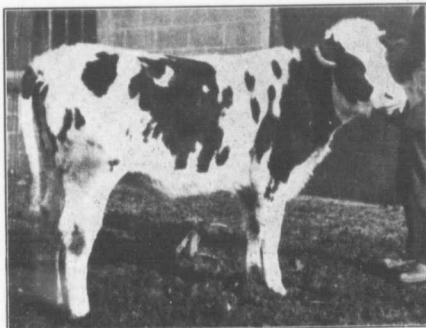
As we approached the barnyard, wherein the young cattle were at exercise, we noticed the type of this stock was of no common sort. To convey this point most clearly and effectively to our people we photographed a representative individual in Lawncrest May Echo Guhen. You will see that she is a great strong heifer. She is one of those square, low-set, deep-headed cattle that give hard work at milk and butter production cannot upset. This type manifests itself also in the head of this individual and others in the same family. Note for yourself her great strength of head, and her width of muzzle. These characteristics as exemplified in this heifer have come right down from May Echo, and heifer account for more than many would give credit. Because of these characteristics, May Echo and her family have been able to make their truly remarkable records and have become generally known and popular far and near.

GET TYPE FIRST—RECORDS FOLLOWED

So confident is Mr. Fred Mallory that it is this type of Holsteins and dairy cattle generally,

which can be counted on for big production, he has gone after this type, mainly, in his breeding, and has left the matter of records to take care of themselves. "I believe," said Mr. Mallory to our editor, "that other things being right, this type of Holsteins will make good every time. In this point lies the secret of success."

Many of our readers will know that Mr. Mallory has struck it splendidly in this particular. His May Echo sold to W. P. Allison, of Chesterville, Ont., at public auction for \$1,475.00. May Echo Verbellé also represents some cash, and



A May Echo Descendant Characteristic of Her Family

Fourteen direct descendants of the great May Echo, of which this heifer is but one, are in the Lawncrest herd of Holsteins, owned by F. R. Mallory, of Frankford, Ont. Note the strength, the great substance, bone and withal the straight lines and dairy type of this heifer. She shows the characteristics of the whole line of the May Echo family, and which have made this strain noted as remarkable producers of milk and butter fat.

—All three photos by an Editor of Farm and Dairy

she is worth it. She has to her credit 37.13 lbs. butter in 7 days, 111.81 butter in 30 days; 16,000 lbs. milk in 7 months, in yearly test, her best day's milk being 104 lbs., and she gave 701.2 lbs. in 7 days, 2,587 lbs. in 30 days.

NOT CHANCE—AN IDEAL REALIZED

We can imagine someone saying, "Oh! This was merely a streak of luck!" Well let us see! There are animals in this herd of Mr. Mallory's that represent 13 generations of Holsteins, bred in the same line upon this farm. The grandfather, Mr. A. B. Mallory, was one of the first breeders to have Holsteins in this country. Then the father, Mr. B. Mallory, for years has been breeding Holsteins, and now the son Fred has for several years had in his hands the improve-

ment of this herd, and has developed and worked out these Holsteins to their present enviable position they hold to-day on account of record making.

When bringing in new blood into this herd it has ever been the object to get good size, and substance and type, rather than choice individuals especially for high production. Mr. Fred Mallory told us that he would rather have a bull without any records behind him, than to have the records without any bull of the type and quality he demanded. He would get both the individual and the records, of course, if possible. Hence we see that there has been little if any element of chance or luck in this important problem of how to get high record making cattle as have been developed by Mr. Mallory.

It is probably not too much to accord this herd first place, or very near it, as a breeder's herd, on account of the many generations it represents and the actual breeding, not buying, of the herd. Where else can you go to find so many excellent Holsteins in one barn as you will find at Mr. Mallory's, and which have been bred for 13 generations on the same farm? It can be said of Mr. Mallory that he does not "buy and sell," but that he "breeds and weeds." It appears to us that his claim is entirely right, when he remarks in his too modest way that he is entitled to the name of "Breeder" in its fullest sense; this with the more emphasis because of the number of generations developed and of the creation of one or two of the greatest Canadian Holstein family names, the "May Echo" and the "Rosa Lees."

In addition to May Echo, whose record we have already mentioned, and May Echo Verbellé, whose record we have earlier given, we will consider in the following paragraphs something of the 14 of the direct progeny from May Echo, which are in Mallory's herd. He has at present in the herd three daughters of May Echo; 6 granddaughters; 3 great-granddaughters; and 2 grandsons.

SOME OF THE OTHER TESTED ONES

One granddaughter has a record at 2 yrs. and 2 mos. old of 17.61 lbs. butter in 7 days, and 68.71 lbs. butter in 30 days; 76.3 lbs. milk in one day; 487.8 lbs. milk in 7 days and 1,970.6 lbs. milk in 30 days; 13,115 lbs. milk since March 24th in yearly test.

Lawncrest May Echo at 2 years and 3 months made 153 lbs. butter under unfavorable conditions in July. Since July 4th to November 1st she has given over 6,000 lbs. of milk.

Rosa Lee De Kol at 12 years old has given (Continued on page 24)

Something About B...

DR. HASSARD's class of cows owe much to his characterizes them but it would be a strain of high that importers have been put from older land made horses h last 12 years h prove the hors

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The Popularity

The demand in Canada for stock imported from the U.S. is a pure bred, most desirable breed

WHAT ONE MAN MAY DO FOR THE STOCK OF A COUNTRY

Something About the Work of One of Our Greatest Horse Importers—Of a Business that is Ever Growing Because of Service Rendered—Of the Horses that May Now be Seen at His Stables

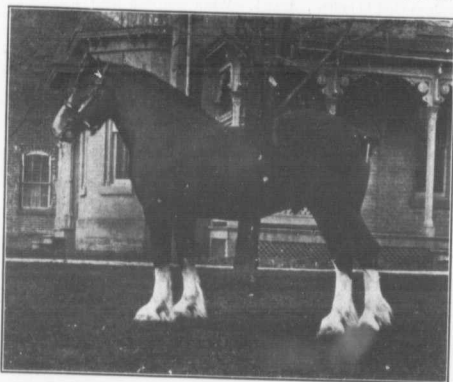
DR. HASSARD, Markham, Ont., is one of a class of men to whom Canadian farmers owe much. The stock on our Canadian farms is not yet of the uniform high quality that characterizes the stock of some older countries, but it would be infinitely poorer than it now is were it not for the steady stream of high class, pure bred stock that importers such as Dr. Hassard, have been pouring into this country from older lands. Dr. Hassard has made horses his specialty, and in the last 12 years he has done much to improve the horse stock of the country.

Dr. Hassard is by profession a veterinary surgeon, having graduated from the Ontario Veterinary College. He first practiced at Millbrook, Ont.,

and it was while practicing there that he came to a true realization of the need that there was for more and better stallions in this country. To do his part to meet this need he organized a syndicate to buy the Clydesdale stallion, Lewis Gordon. He soon bought out the other partners of the syndicate, and a short time later, in 1900, the Doctor started his active career as a horse importer by bringing a splendid string of stallions over from Scotland. Importation has succeeded importation, and never a year

has passed without a few good stallions being brought into this country by Dr. Hassard. So rapidly did Dr. Hassard's business increase, that it soon outgrew his quarters at Millbrook, and he moved to a more central location, at Markham, Ont., where he still is, and can be easily reached by Grand Trunk trains from Toronto. His importations this year have been the largest and best since he started in business. An editor of Farm and Dairy recently went to Markham to inspect the latest great importations, and came away feeling that his time had been well spent.

A business so extensive as is Dr. Hassard's does not "just happen." It is built on good service. When purchasing Clydesdales, Dr. Hassard has always made it his aim to get them with both size and quality, the kind that are



The Champion Horse of Scotland at His New Canadian Home

One of the pick of Dr. Hassard's splendid bunch of Clydesdales is Macaroon, winner of the Cawdor Cup at the last Glasgow Spring Show, and second in the class for mature stallions at the Canadian National Exhibition in 1912. As will be seen by the illustration, he is a horse of both substance and quality, and splendidly proportioned. He is but one of numerous good ones that Dr. Hassard has in his barns at Markham, Ont.

—Photo by an editor of Farm and Dairy.

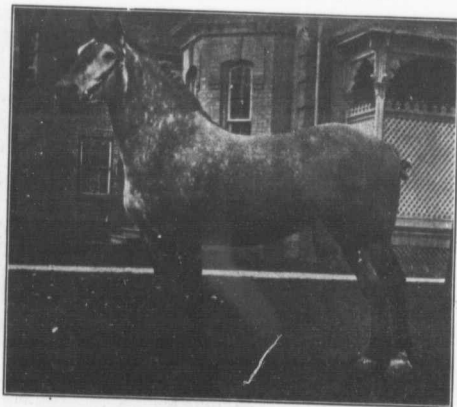
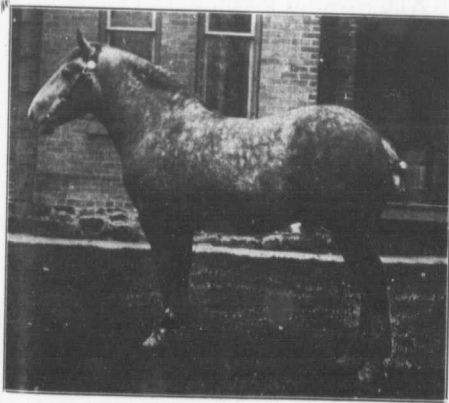
most useful and in greatest demand in this country. In addition to size and quality, he demands that a horse shall have action; he must be able to move else he is useless. Horses of good bone, lots of it, flat, hard and flinty, are the kind that we saw at Markham; the kind that are worth any buyer's time to go and see.

There is ample room for paddocks around Dr. Hassard's stable, and all of the horses are exer-

cised every reasonably fine day of the year. Because of this, they are always in the best of health and ready to give good service as soon as sold. Their feeding also contributes to their health. Oats, bran, and hay are the basic feeds. Dr. Hassard has now on hand, over 70 head of Clydesdales, Percherons, Standard-Bred and Hackneys. Of these about 40 are Clydesdales and 11 Percherons. The Percheron is a new breed with Dr. Hassard, he having made his first importation of eight animals last year. This year he brought over six stallions and two mares. The illustrations herewith will give one an idea of the splendid type of these Percherons. They are the pick of the breed. A black two-year-old stallion, for instance, Klepper, was third in a class of 98 entries at Paris, France, this year. Two horses of truly remarkable thickness and yet first-rate quality and action were Juda and Jack, the former of which will be entered at Guelph next week.

But it is as an importer and exhibitor of Clydesdales that Dr. Hassard is best known, and it is with the breed that he has made a truly enviable reputation. Of his large stock, two are especially deserving of mention. Macaroon, the four-year-old stallion illustrated herewith, champion at the Glasgow Spring Show this year and winner of the Cawdor Cup, is a horse hard to fault, and a valuable addition to the Clydesdale stock of this country. An equally desirable animal is the two-year-old stallion, Prince of Arden, an animal combining substance and quality to even a greater degree than does Macaroon, and that is saying a lot. Space will not permit us to tell of all the splendid animals that we saw at Markham. One more we will mention particularly. Nell of Aikton, a yearling filly, big enough for a good two-year-old, and first in her class at Toronto this year. This colt was never beaten in the Old Country, was considered by many to be the finest filly in Scotland,

(Concluded on page 20)



The Popularity of the Low Down, Thick Boded, and Clean Limbed Percheron of the Type of Animal Here Illustrated is Ever on the Increase in Canada

The demand in Canada for Percheron horses of good quality and type has been steadily increasing for some years. Dr. Hassard, of Markham, Ont., is one of our well-known stock importers who was quick to see the market for Percherons in Canada, and in the last couple of years he has placed several splendid animals on Canadian farms. In his latest importation are some splendid Percherons, of which the two here illustrated are specimens. The illustrations speak for themselves. Jennie, to the left, is a pure bred Percheron mare of splendid substance, fine quality and good action. Her breeding is of the best. The stallion to the right, Juda, is a fine study of a most desirable Percheron and draft horse type. This pair will probably be included in the string that Dr. Hassard will have on exhibition and in competition at the Provincial Winter Fair at Guelph, Dec. 9 to 11.

—Photos by an editor of Farm and Dairy.

Built to Give Lasting Service

NO cream separator in the world is made from finer materials than the **STANDARD**. 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 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 aluminium or tinned iron discs.

The Bowl Bottom is made of special steel forging. If the **STANDARD'S** bowl falls on the floor it won't bend or break.

NOT THE ONLY REASON

In fact, every part of the **STANDARD** cream separator is built to give lasting service. But that's not the only reason you have for selecting the **STANDARD** cream separator. There are, for instance, several features that add greatly to the convenience and satisfaction of owning a **STANDARD**.

For example, there is the Wide Open Bowl, so easy to get at and wash. No tubes to clog up, either. Then there is the disc holder on which the discs are all washed together in about one minute. The discs are numbered so that they cannot be put together wrong.

Then, too, the **STANDARD** Bowl doesn't leak. That's because the bowl shell fits tight without screwing down on top of a rubber ring, causing wear on the rubber and allowing the milk to leak through when the bowl is revolving.

Another good feature is the Interchangeable Clutch. When you stop the crank the gears all stop and the bowl runs down of its own accord and without wear. The Interchangeable Clutch also enables you to "pump" the handle and start the **STANDARD** quickly and easily.

OTHER BIG FEATURES

Other big features of the **STANDARD**, such as the Self-Oiling System — the Centre Balanced Bowl—the Liberal Space Between Disc Edges and Bowl for Accumulation of Impurities—the High Crank Shaft—the Low Supply Can—the Enclosed Dust-Proof Gearing, were emphasized in previous advertisements.

So why go further. You've already learned enough to know that the **STANDARD** is the convenient and efficient machine, and is built to last long. In fact, tests go to show that the **STANDARD** should give 25 years of service.

One test given the **STANDARD** was equal to skimming 100 pounds of milk every day for six years. At the completion of the test there was no wear visible on the working parts. The **STANDARD** was easily good for 20 years of service after the test.



WRITE FOR BOOKLETS

We take it for granted you are interested in this test. And we would like to send you our booklet describing it fully. Also booklets showing construction of the **STANDARD** and containing records of skimming tests. Send us your name and address promptly. The booklets will be mailed to you by return mail.

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P.S.—A Merry Christmas and a Happy New Year to our friends, patrons, and the public generally

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Yield per acre	PLOT 1	PLOT 2	PLOT 3
	Unfertilized	160 lbs. Muriate of Potash 400 Acid Phosphate 200 Nitrate of Soda	400 200
10,000 lbs.	16,000 lbs.	13,000 lbs.	

ALL progressive farmers, market gardeners and orchardists recognize the need and value of **POTASH** for their soils. This is apparent by the ever-increasing consumption of **POTASH** in all branches of agriculture. This essential plant food can be obtained from all reliable fertilizer dealers and seedsmen in the highly concentrated forms of

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A VISIT TO THE HOME OF A NOTED BREEDER OF JERSEY CATTLE

A Herd Bred for Economical Production for over 33 Years—Fancy Points, have not been Neglected as is Proven by an Envious Show Yard Record.

THE success that has attended David Duncan, of the Don, in all of the 33 years that he has been breeding Jersey cattle, is founded on the bedrock of "Utility." When Mr. Duncan, as a young man, purchased his first two pure bred heifers, he believed that the Jersey would produce milk and butter more economically than it could be produced by animals of any other breed. Mr. Duncan is now an old man, but he is still of the same opinion, and has the experience of over 30 years to back his contention. His herd has sometimes numbered as high as 100 head and it has always been self-supporting, irrespective of the extra receipts from the sale of pure bred stock.

Although working for utility points, Mr. Duncan has also combined showyard type to a wonderful degree. At Toronto Exhibition where is the strongest competition of any fair in Canada, Mr. Duncan has to his credit more prizes won on home bred animals than any other Canadian breeder. Were conditions right, Mr. Duncan believes that his Jerseys could do him credit in public dairy tests. "I only wish," said Mr. Duncan to an editor of Farm and Dairy, who visited his farm and herd recently, "that they would establish a class in the Dairy Tests at our Winter Fairs for economical production. I know that our Jerseys would shine there." **AN IDEAL DAIRY FARM**

Moatfield Farm, as Mr. Duncan's home has always been known, is composed of some 250 acres within six miles of Toronto, two miles from the C. P. R. station at Donlands, and is right adjoining Duncan Station on the C. N. R. The farm is ideal for dairying. In summer the

Don Jerseys have the run of a large area of natural pasture, through which runs the Don River. The soil is fertile and excellently adapted to the growth of corn, clover, and alfalfa, which form the basis of the ration received by these Jersey cows.

The stables, if old-fashioned, are comfortable

omically consume rough fodder should visit Mr. Duncan's herd and learn better. Notice the daily ration: Silage and cut straw, with a little grain mixed in, is fed first thing in the morning. Mangles come in the middle of the morning, and hay at noon. Before milking at night, ensilage is fed followed by meal, mostly ground oats. "Ground oats has given us better results than shorts," remarked Mr. Gordon Duncan, "and they are cheaper as well." Mr. Duncan has now on hand 70 head of pure bred Jersey cattle, of which over 30 are milk cows. Cream is sold in Toronto, and the cows freshen to provide a uniform supply the year round.

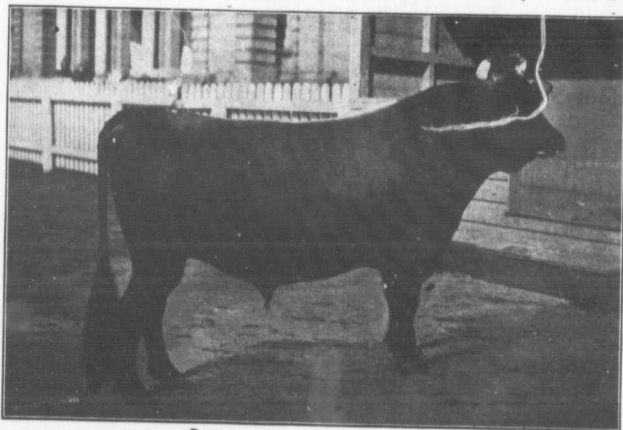
NO TUBERCULOSIS HERE

"The precautions we have taken to safeguard the health of our herd have been most successful," said Mr. Duncan to our editor. "In recent years we have had all of our cattle tuberculin tested and have had only one react. At present there is not a single reactor in our herd."

Mr. Duncan has been fortunate in always securing first-class sires to head his herd. Fontaine's Boyle, now well up in years, affords us an example of the kind of sires Mr. Duncan has used. He is out of Golden Fern's Lad, a richly bred and high-priced bull. His dam sold for \$1,035 in 1903. He is one of the most richly bred bulls in America to-day. Mr. Duncan has had him for over six years and he is still in the herd because of the high class stock that he is getting.

The younger bull in this herd, Eminence Royal Fern, will be a worthy successor to old Fontaine's Boyle. He is sired by Sensational Fern, a bull that sold for \$10,300 when eight months old, and his dam is Eminence Evasion, with a record of 55 lbs. of milk a day and 24 lbs. of butter in a week.

The matrons of the herd are producers worth (Concluded on page 20)



A Well Proven Sire and a Worthy Head of a Great Jersey Herd

David Duncan, of the Don, can testify to the influence that a single well bred propent sire may have on a herd. Fontaine's Boyle, one of the most richly bred Jersey bulls in America, the animal here illustrated, has been used by Mr. Duncan with remarkably good results and is still giving good service in the herd. Notice the splendid dairy and breed type of this great breeding and show bull. Would you like to have stock from a bull such as this?

and convenient, and from the standpoint of ventilation and cleanliness, among the best that we have ever been in. Air is admitted into the stable through the windows that are hinged at the bottom and stale air is carried off through shafts running to the roof. The stables throughout are whitewashed and periodically they are thoroughly disinfected with zenoleum. These sanitary precautions Mr. Duncan lays great stress on as being important in the maintaining of a healthy, vigorous herd.

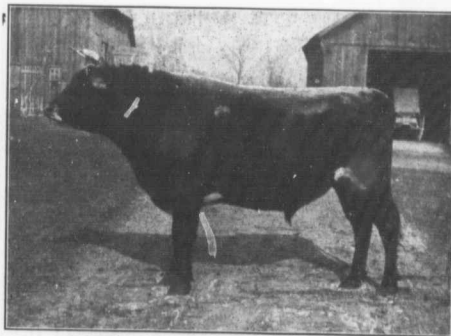
Those who claim that the Jersey cannot econ-



Jersey Matrons That Combine Producing Ability and Show Type

The three cows here illustrated show us more clearly than words can tell, the success that has attended Mr. Duncan, of the Don, Ont., in his effort to breed Jerseys that are both economical producers and good show animals. The second cow in this illustration, Mantinella of the Don, is a famous show cow, being female champion at Toronto as a junior yearling, and a frequent winner since. She freshened last December, and between June 1st and August 1st, made 2,411 lbs. of milk in the same period, freshening in February. The cow to the left, Gladie Sweet Vernal, Mr. Duncan considers to be the most economical producer in his herd, she being one of the largest milkers and a comparatively small eater. It is cows such as this that have made the Jersey one of the most popular and most numerous of dairy breeds.

—Photos by an editor of Farm and Dairy.



A Worthy Successor of Fontaine's Boyle

Eminence Royal Fern, the young bull now in use in the Don herd of Jerseys, is strong in both individuality and breeding. Read more of this young sire in the article adjoining.

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The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All questions will receive prompt attention.

Why Skim Milk is Valued

Jan. Stewart, Northumberland Co., Ont.

We have gotten more out of the calves that are dropped in our pure-bred Ayrshire herd than out of the cream that we sell. Can we then afford to sell our skim milk? When a dairyman has pure bred stock that will bring a high price, his calves are of far too much importance to sell the whole milk and rob them of the skim milk.

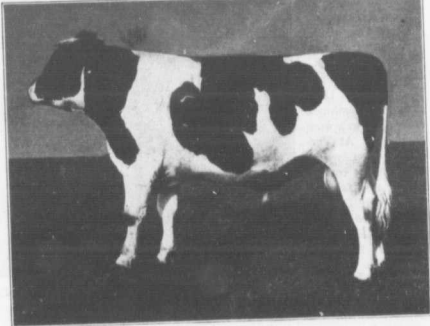
We have found that in feeding a calf skim milk, the grain that is fed

fat, the two latter are produced very easily and cheaply on the farm as compared with the first, the protein, is the expensive feeding substance and the one that deserves first consideration from us dairymen when we buy feed. Readers will note from the analysis that I have given that cotton seed meal has three times as much protein in it as has bran; but it doesn't cost as much. Similarly linseed costs twice as much as bran, and gluten meal has twice as much also.

We should not let the price of these highly nutritive feeds stagger us. I believe that the high priced feeds are the cheapest that we can buy to-day for our dairy cows.

Talk on Calf Raising

Wm. Kaufman, Oxford Co., Ont.
My methods of calf raising are quite simple. We let the calf suck its dam a day or two then we fill feed it new



A Great Bull Individually and in Breeding—Heading a Great Herd

King Johanna Pontiac Kordyke, No. 76,966—A young Holstein bull of the highest official backing. Note his color marking, and his A 1 conformation. Dam, and 2 dams of his sire averaged 32.12 lbs. butter in 7 days; daughter of her sisters, 2 dams of his sire averaged for the 12, 33.77 lbs. butter in 7 days. These 12 cows, 11 Lady Kordyke, average for the 12, 33.77 lbs. butter in 7 days. These 12 cows, 11 with records above 30 lbs. (the other 29% lbs. 4-year-olds), include 4 past and present world's champions.

His sister, Pontiac Lady Kordyke, recently made the world's record as follows: Milk, 7 days—60.4, butter, 36.03; 30 days—milk, 2,496.1, butter, 156.92. He is a grandson of Pontiac Kordyke, Colantha Johanna Lad and Pontiac Gladi. This great bull is now the chief sire at the head of "Elvrosdale Herd. Where can you equal his breeding? Owned by J. W. Richardson, Galedonia, Ont. (Adv.)

is thoroughly digested. In feeding skim milk it is not advisable to take the whole milk away too soon; not until the calves have commenced to eat other feeds at any rate. We find that if the calves are turned in with those a little older that know how to eat, they will soon learn.

What is Cheap?

By "Cowboy," Oxford Co., Ont.

The first cost of cotton seed meal, oil cake, gluten meal and similar feeds that have a very high protein content seems to stagger many dairymen. They seem to go to the point of assuming that a dollar in the pocket and a dollar in feed is much better than \$3 in feed. The price of these high quality feeds does look tremendous, but when we examine their nutritive value, we will find that in one sense at least, they are the cheapest feeds that we can buy. A study of the following table which I have extracted from a table of feeding standards will show what I mean:

Feed	Protein	Carbohy- drates	Fat
Cotton seed meal	27.3	25.9	23.3
Linseed meal	29.3	22.7	7
Gluten meal	25.8	43.3	11
Wheat bran	13.2	39.2	3.7
Corn	7.9	66.7	4.3
Oats	9.2	47.3	4.3

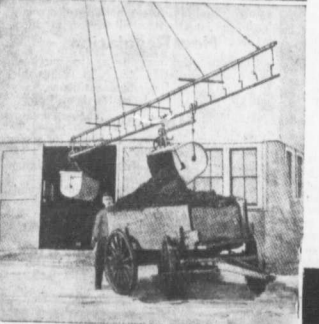
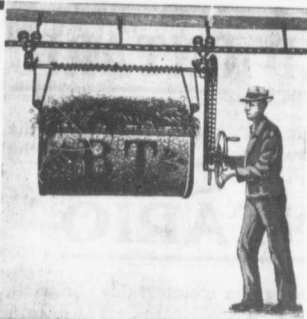
Of the three ingredients necessary in a feed, protein, carbohydrates and

milk for a week or 10 days. We gradually change to skim till at a month old they get all skim (separ-tor) milk. When the cheese season opens we feed pasteurized whey the same as skim milk. I think good sweet whey is just as good as skim milk, but we never feed more than a gallon at a feed twice a day, for the calves will eat solid food sooner if they do not get too much to drink. We feed them ensilage, well cured clover hay, and a little whole oats. They get they till they are seven or eight months old.

We have had very good luck feeding calves. We always raise our own cows from the best dams, and as we test all our cows in our own testing association, we know from which cows to raise the calves. There are more calves ruined through feeding too much skim milk and whey than by feeding too little. I have seen some people set a big galvanized pail of whey before a calf and let it drink all it liked. The result was always a small pot-bellied calf.

If a fence has a tendency to cause the snow to block the highway there is also power on the part of the council to have a wire fence, or other suitable fence, erected in place, but the owner of the land must be compensated.

Renew your subscription now.



BARN Cleaning Made Almost Automatic Read The Proof Here Now

You can lower the BT Manure Carrier right down to the gutter, and easily pitch half-a-ton of manure into the big wide-mouthed bucket—an easy shove sends this big load away out from the barn, and you can dump it into the sleigh or wagon, or on the pile, in a minute.

Isn't it easy—there's no hard work about it at all—it's a snap even for your boy. Get him a BT Manure Carrier, and he'll be glad to do all the stable work. He'll like to do it, where your strong man hated it before.

And the best of it is, your manure carrier makes a far cleaner job. There you have a big, wide-mouthed bucket, lowered close to the floor, behind the stalls. It's easy to fill it with the liquid as well as the solid manure; the galvanized water-tight tub keeps all this until you reach the pile, rods from the barn—there's no dripping or slopping along the passage way at all.

If you could read the hundreds of letters we receive in praise of the BT Manure Carrier, you would agree with us that it makes your barn cleaning automatic, and you'd be glad to write for our Catalogue and read all the facts about the BT Carrier.

THE BT MANURE CARRIER

The BT Carrier means so much to you that you cannot afford to ignore the facts. Think! In one big load it cleans your stable—the whole thing is done in a minute—only one trip out into the yard—only one shove when its bitter, icy cold! And then you get the manure a good distance from the barn, where it can't rot the sides of your barn, or injure the health of your stock by the fumes given off.

Write for our Catalogue—we want you to read of the value and superiority of the BT Carrier. Know why it is the choice of the best farmers and dairymen all over Canada. Know why it is used exclusively on all the big government farms. Read about the BT Hand Wheel Windlass, the Friction Brake, the Latch, and Latch Trip, the Track and Hangers. Investigate all the superior qualities of the BT that make it years ahead of other styles.

Mail Coupon Now For Catalogue

This is the best time of the year to install your Manure Carrier—right now, while the work is slack. Our Catalogue gives you complete instructions so that you can go ahead and quickly put up your outfit. Don't delay. Be ready for the heavy stable work in the January and February months. You ought to have our Catalogue, and pay for itself, before the winter's over, in all the dirty, disagreeable, tedious work it saves.

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BEATTY BROS., 413 Hill Street
Limited FERGUS, ONT.

Please send me your Catalogue of BT Manure Carriers, and quote me a price on a complete Manure Carrier outfit.

I will need about feet of track.
Name.....
P.O.....
Province.....

The Old
Back-Breaking Way



AT THE DOOR OF OLD ONTARIO

TWENTY MILLION (20,000,000) ACRES of virgin soil equal in richness to the prairie lands are calling for cultivation. Thousands of farmers have responded, but the vast territory of

NORTHERN ONTARIO

can support MILLIONS OF PEOPLE, and it will make them comfortable or rich, independent and strong.

Crops

Its productive capabilities in wheat, oats, barley, peas, potatoes, roots, vegetables, clovers, and grasses are unexcelled. The finest quality of No. 1 hard wheat is now produced in a latitude that was thought to be prohibitive. Here are a few quotations from actual residents or settlers in different parts which are worth while thinking about: "For two years in succession we have grown fall wheat which weighed 64 lbs. to the measured bushel, while other cereals were quite a good." Another says: "Oats have produced 60 to 75 bushels per acre, and running 37 to 40 pounds per measured bushel." Another: "We grow from 40 to 90 bushels of oats per acre, 35 to 40 bushels of wheat per acre, and 40 to 60 bushels of barley per acre." Another: "The land is capable of producing an abundant crop of all kinds of grains, grasses, and vegetables. We can grow the finest clover and clover seed in the world." Another: "Remarks of clover and roots of all kinds are grown here." Another: "The writer has seen two heavy crops of red clover taken from the same field in one season. White clover grows rankly everywhere." Another: "I myself have grown 410 bushels of potatoes to the acre." Another: "Potatoes will yield from 250 to 450." And a visiting expert writes: "Timothy and clover excel anything seen in older Ontario."

Markets

There are excellent markets in the towns, the mining and lumbering camps, and on the roads and railways in course of construction. Here are a few quotations from various parts: "The markets are unexcelled, for the demand is far greater than the supply. This applies to stock as well as to farm produce." Another: "The lumber and mining camps take all our produce, and the prices are the best." Another: "We can market anything we produce, like passing out hot cakes, as we cannot produce one-half enough to supply the two cities mentioned." Another: "So far this valley has been unable to supply the local market with grain, hay, provisions, and live stock." And another: "The crops are very profitable, and fetch extremely high prices."

Wood Sales & Winter Work

"When pulp, paper, and other wood-working mills are established at convenient points it will put a value on every tree that grows in this country, besides giving employment to all settlers who want it." There are large pulp mills in various parts, and



more are being established. A resident writes: "The present-day settler in Northern Ontario can harvest nature's forest crop in the winter time, and be well repaid for his labor, as the steady demand at good prices for saw-logs, railway ties, and cordwood is a strong inducement to the settler to clear his location for the cultivation of farm crops." From another quarter: "Pulpwood—at present nothing doing. Farmers get \$4.00 per cord for firewood delivered in town." From elsewhere: "Plenty of work in the camps in the winter, good wages, \$30 per month." Another writes: "It is very easy to obtain work in the winter in the lumber woods, and the wages are from \$25 to \$35 per month for several years past." Another: "There is plenty of work to be had in the winter in the lumber camps and in the mines. Plenty of railroad contract work in which the wages are a little higher, and will be for the next two or three years." Another: "Men are in great demand here in the winter by the lumbering companies." And another: "Like every timbered country, the winter season is as busy as the summer, and any man wishing work can find all that he can do, and at reasonably good wages."

Climate

A resident writes: "The climate is particularly healthful, the winters are perhaps a little longer than in older Ontario, but the air is more clear and invigorating." Another elsewhere: "Our climate is good; there is no healthier part in Canada."

Forests

The bush supplies the settler with a dwelling and fuel and with cash in available markets, protects from storms, and relieves the melancholy incident to a bleak open prairie.

Railways

There are 3,500 miles of steam railway finished or in course of construction.

Colonization Roads

There are hundreds of miles of colonization roads. Progress is the watchword. The "Globe" newspaper reports from Temiskaming: "Since June, Mr. I. F. Whitson has built 218 miles of road over an area approximately of a hundred miles square. There are still some families 3 or 4 miles back from any road, but they have gone in since the colonization work commenced, and it may be said that Northern Ontario has in one year the age of the pack-sack and the trail through the woods to that of the 60 foot colonization road and the top buggy." "Next year the Rainy Lake and Fort William country will be invaded, as well as the work resumed in Northern Ontario."

Cities, Towns, & Villages

These are built and being built along the lines of railway, possessing and aiming at modern equipments.

A Preference

Men are coming to Northern Ontario that have not found the level prairie country to their liking. "Two years ago," says a settler, "I went West through Manitoba and Saskatchewan to have a look, with the idea of farming, if the conditions were more favourable than here, but I came to the conclusion this was the best country for a poor man to start up in, with the best of wood and water, and spring water at that, on every lot." The man of some capital has a special chance. He will not be taking any chance in buying the bush land under cultivation, but will be sure of swift results, as the increase in the value of the land alone will be sufficient return for outlay, to say nothing of a ready high-priced market for all he can produce.

New Regulation

"Persons who may desire to purchase under the regulations but who are unable to go into actual personal residence, may put an agent in residence for them," etc.

Distances

When searching out a home for your boys, don't forget that Winnipeg is 420 miles from Montreal, Regina 1,771, Calgary 2,251. Northern Ontario is at your door.

Read the Ontario Government's handbook, "Northern Ontario," or apply to

H. A. MACDONNELL
Director of Colonization, Parliament Buildings, Toronto, Canada; or
The Ontario Government Office, 163 Strand, London, England

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Jas. C
(Seed Grower
Patterson, Wyl
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To

HORTICULTURE

Orchard and Garden Notes

Spray with lime sulphur or other fungicide and insecticide.

Make plantings of spring bulbs if it has not already been done.

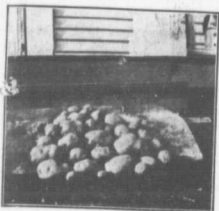
Cover Boston ivy vines with straw as a protection against winter.

Take up and burn all prunings and weeds in the orchard and garden.

As soon as the ground freezes cover the strawberry bed and bush beds.

Prune and burn all diseased limbs or dry fruits clinging to the plum or apple trees.

Secure plenty of good potting soil



Can Anyone Beat This?

All of the potatoes in this illustration were grown in one hill on the farm of M. Emil Leger, Westmoreland Co., N. B. The hill yielded 31 tubers, 28 of which were marketable and weighed 13 lbs. 2 ounces. They are of the Green Mountain variety and grown from specially selected seed.

and leaf mold for planting next spring's seeds or for hot-bed use.

Draw the currant branches together and tie them to prevent their being broken down by the snow or sleet of winter.

Cut and burn asparagus canes. If well rotted manure is available mulch the bed well with it, plowing it

Carter's Tested Seeds are Pedigree Seeds



Why Don't You Have Big Crops?

Growers are surprised at the big crops of roots, grains and vegetables they get out of the same old soil, when they sow.

Carter's Tested Seeds

These genuine, pure-strain, pedigree seeds from the most scientific growers in England, are sold in original, sealed packages. Carter's Seeds have been tried for years in Canada with results that have overwhelmed all competitors for size, flavor and yield.

Write for Carter's Seed Catalog To-day

Vegetable Seeds, Flower Seeds, Farm Seeds, Grass Seeds. Every kind has the Carter individuality.

Jas. Carter & Co.

(Seed Growers in H.M. King George V.)
Patterson, Wyde & Co., Agents for Canada
133 King St. East
Toronto, Ont.

in as early in spring as possible.

Place burlap, cornstalks or boards on the south side of small smooth-barked lawn trees and apple trees to protect from sunscald during the winter.

Put plenty of broken pottery in all pots over four inches in depth when potting or repotting plants. This will insure good drainage which is always essential to plant growth.

Just before snow comes cover the lawn with well-rotted manure. Rake this litter off in the spring after the rains have worked the manure into the soil. Better sod will result. Weeds will be kept in check more easily by the grass.

Winter Protection for Small Fruits

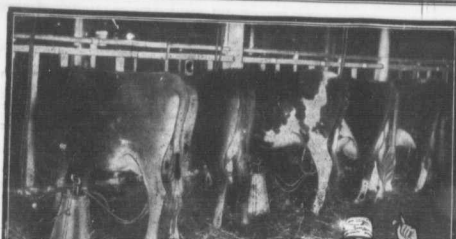
It is now time to be thinking seriously of winter protection for small fruits. For strawberries, the usual covering of straw is good. In mild locations, a layer of straw not less than four inches thick should be applied. In more severe locations this should be increased to six inches, and in the prairie sections of the northwestern parts of the county it is desirable to use eight inches of straw, or even more. In some years almost any covering will do; but winters that are hard on strawberries, and which injure or kill them out when met heavily covered, are sufficiently frequent to make it worth while to be well prepared.

It is important to have the straw free from weed seeds. Marsh hay is an ideal covering for small patches, when it is available. It is better than straw. Manure should not be used unless it is very light, because it is liable to settle down and smother the plants. The covering should be applied as soon as the ground is frozen hard enough to hold it up a week. Sometimes a part of it is put on even before this time.

RASPBERRIES AND BLACKBERRIES.
Raspberries and blackberries are nearly always sufficiently benefited, by laying them down and covering with earth, to make the expense and trouble more than pay. The work is done by bending the canes to the north and covering them with earth. If the canes are large and stiff, and growing in hills, the best way is to dig a forkful or two of earth away from in front of the plant before bending over. It is more convenient to begin at the north end of the row. The entire cane should be covered with earth. This work may be done any time after the leaves fall, and before the ground freezes up. It cannot be done while there is frost in the canes, for they will snap off.

The only pruning necessary before laying down is to remove the old canes and some of the new ones, if they are too numerous. Leave just enough of the new canes to bear a good crop the following year. If they are planted in hills, and the canes are large, stocky and well-branched, about four to six new canes in a hill will be sufficient. Horse power may be used in covering the canes, by first laying them down by hand and covering the tips with enough earth to hold them in place, and then plowing a furrow against and between each side. A man should then follow with a spade, and complete the covering in spots missed by the plow.

Currants need little protection except from deep snows, which sometimes break down the branches when settling in the spring. Bushes may be protected from such injury by simply tying them together, with light rope or binder-straps, enough to hold them up straight, so that the snow cannot bend them down and break them.—A. R. Kohler.



Milks Four Cows in Five Minutes

Think of that Mr. Dairyman, almost a cow a minute and everyone milked thoroughly, gently and without any possible chance of injury to even the most sensitive animal. Stop and figure how long it takes to do your milking now and what it is costing you. Then compare the low cost of installing and operating a

Sharples Mechanical Milker

the independence it gives you from shiftless unreliable workmen, the freedom from worry and drudgery, the assurance of perfectly clean milk—free from stable air and bacteria, and last but not least, the opportunity to double the size of your herd. Consider all these advantages and you will understand why Mr. Henry Fielden, Supt. of the famous Branford Farms, Groton, Conn., says: "It is one of the most profitable investments we have ever made on this farm." The Sharples Mechanical Milker is the machine using the patented

"Teat Cup with the Upward Squeeze"

The only milking machine that presses the blood back up into circulation after each down stroke, preventing fever, swelling and congestion. This one great improvement marks the difference between the success and failure of mechanical milkers. It removes the last possible objection to the mechanical milker and explains why it is used on the world's highest priced dairy cows. We will make you a proposition that guarantees satisfaction to you in your own dairy or on sale. Write for Catalog # today.

THE SHARPLES SEPARATOR CO.
TORONTO, ONT. WINNIPEG, MAN.

The Old Reliable
LIVINGSTON'S
Pure Linseed Oil Cake Meal



50 Years the Best by Test
A Food To Make Cattle Fat

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Makes More Butter Fat

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For Sale By
All Good Feed Stores and Dealers

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BADEN TORONTO MONTREAL ELORA OWEN SOUND LIMITED

The Machine that is Different From All Others

THE
"MELOTTE"

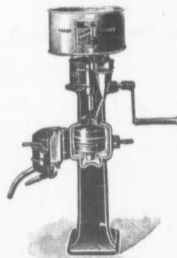
Has a Larger Sale than any other Cream Separator in the British Empire

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Is always purchased by those who know its Value.

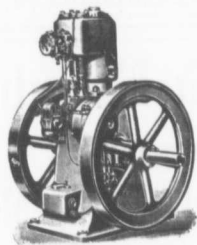
The Reason Why:

- It lasts
- It skims clean
- It turns easy
- It gives genuine satisfaction
- Therefore, the "Melotte" is the cheapest Cream Separator to buy.



Upkeep is so small that we shall be pleased to mail you book of testimonials from satisfied users in your district. WRITE TO-DAY

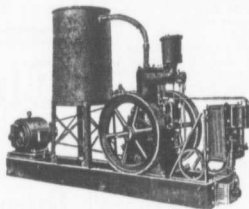
The "Lister"



Gasoline Engine
English Manufacture

For simplicity, quality, finish and low cost of running, there is nothing like it in the world. The "LISTER" Gasoline Engine is exactly suited for the farm, for the mechanic, for the contractor. A powerful, smooth running machine.

The "Lister-Bruston"



Automatic Electric Lighting Plant

Starts Itself!
Stops Itself!

This wonderful system makes it possible for those residing in the Country to enjoy advantages as to lighting the equal of those in the City.

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Branch Offices:
197 PRINCESS ST., WINNIPEG
82 WATER ST., ST. JOHN N.B.

STUART A. LISTER, Manager

The New Ayrshire Queen

Editor, Farm and Dairy—I have just received word from Mr. D. P. LeFebre, manager of the Lotus Fields' Ayrshire Stock Farm, that Jean Armour has now finished her year's record and now claims the honor of being the first Ayrshire cow in the world to beat 20,000 lbs. of milk in one year. Her record is 20,174 lbs. of milk and 774.73 lbs. of butter-fat. This is over 2,000 lbs. of milk in excess of the record of Netherhall Brownie 9th, but does not quite equal the latter's record in butter-fat. Brownie died soon after the completion of her test, while Jean Armour is in perfect health, and is now over three months gone in calf. Her best month was 1,200.7 lbs. Her highest yield for one single day was 73.6 lbs.

Jean Armour was in her twelfth year when she finished her test and is a living refutation of the charges so often made in the past, that Ontario Ayrshire breeders were neglecting the milking qualities of the breed and were simply breeding for the show ring. Jean Armour's pedigree is thickly strided with a long array of the greatest of Ontario show ring winners this province has seen during the past 30 years, and she stands today as the greatest living Ayrshire cow in the world.—John McKee, Norwich, Ont.

Our Veterinary Adviser

COUGH—WORMS.—I have a three-year and a four-year-old colt that have a discharge from the nostrils. They have had a cough for three months. The cough is worse when trotting. They also have worms. I have tried several advertised remedies without any result, and have also tried turpentine and linseed oil. I find great difficulty in administering a drench. Could you recommend a powder to mix with the feed?—S. J. S. Drummond Co., Que.

Take three ounces each of sulphate of copper, sulphate of iron and tartar emetic. Make into 24 powders and give one every night and morning in damp food. After the last powder has been taken give a purgation of eight drams aloes and two drams ginger moistened with treacle, made into a bolus and given. This should relieve the patient of worms and probably also check the nasal discharge. If the cough continues give every morning a ball composed of one and one-half drams of powdered opium, two drams solid extract of belladonna, one dram camphor and 2 grains digitalis moistened with oil of tar. It requires some skill to administer a ball, but such bricky medicines will not be eaten in food.

INFECTIOUS OPHTHALMIA.—I have several cases with very sore eyes. Their eyes become swollen and run water for a few days and then turn a bloody color, which soon turns to a yellow colored matter, and the eye ball looks as though it were going to burst. None have so far. The disease seems to be contagious. Kindly give name and treatment for disease.—W. G. L. Huron Co., Ont.

This is an infectious disease of the eyes. Isolate the diseased. Keep in partially darkened stable excluded from draughts. Give each one pound of Epsom salts, four and one-half ounces ginger. Get lotion made of sulphate of zinc, 10 grains, fluid extract of belladonna, 20 drops, and distilled water, two ounces. Bathe the eyes well with hot water three times daily, and after bathing put a few drops of the lotion into each.

I find a lot of valuable information in Farm and Dairy concerning all branches of the farm.—J. McCas. Renfrew Co., Ont.

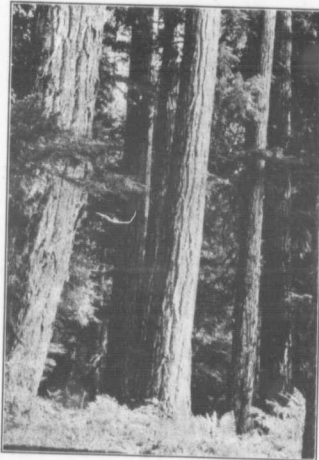
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Canada's Most Productive and Progressive Province

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Splendid Opportunities
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MIXED FARMING
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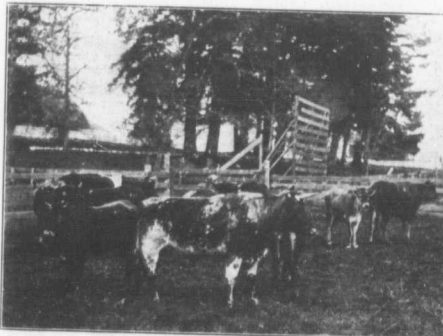
Most Extensive Stand
of
TIMBER
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Inexhaustible
FISHERIES

Immense Deposits of
GOLD
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COPPER
LEAD and IRON

Last year (1911) the people of British Columbia, 392,500, (including Indians and Asiatics) produced

Minerals	25,211,816
Lumber	25,000,000
Fish	11,000,000
Agriculture	20,837,893
Manufactures	45,000,000
Total	\$128,048,709



Total Trade 1911 aggregated **\$69,000,000**
One Hundred and Fifty Million Dollars is being expended on Railways
An ever increasing demand for all products of the Farm

For further information regarding British Columbia, apply to
SECRETARY, BUREAU OF INFORMATION, VICTORIA, B.C.

Apples That Sold Well

This Year

had all been sprayed
and sprayed thoroughly

Apples that were not sprayed could hardly be sold at all. They caused great loss and much disappointment to growers

This coming year you will want to profit from the experiences of the past seasons. You will want to spray. You will want the best sprays and a spraying outfit best suited to your needs.

Leading growers prefer

Niagara Brand Lime-Sulphur AND Arsenate of Lead

These sprays have been sold in Canada for five years. "Niagara" has always demonstrated its merits as an insecticide and fungicide without fail.

Use Niagara Brand sprays, apply them with our spray pumps and you can

Grow Apples, Absolutely Clean and Sound

Such fruit as was on exhibition at the Ontario Horticultural Show in Toronto recently, has been made possible by the use of Niagara Lime-Sulphur and Arsenate of Lead.

The associations exhibiting at the Show endorse Niagara Brand Sprays. They use Niagara Brand Lime-Sulphur and Arsenate of Lead. Nearly every prominent fruit grower in Ontario uses Niagara Brand Sprays.

They use Niagara Brand Lime-Sulphur because it is absolutely clean and uniform. It carries the highest analysis. Every gallon is guaranteed.

Spray Pumps, Hand and Power

A good spray outfit is just as essential as good spray. Our pumps have stood the test of years. They are built with all of the troubles left out.

All of our pumps have porcelain-lined cylinders. They are noted for their durability, simplicity, high pressure and large capacity. We have pumps in all sizes from

the smallest barrel pump to the most powerful 2 and 3-cylinder power pumps. We have sold hundreds of outfits of different sizes in Ontario, and they are all giving excellent satisfaction.

Let us send you a list of testimonials from satisfied customers. Let us quote you on year requirements. Let us send you our free book on "SPRAYING."

We are specialists on fruit growers' supplies. We devote our whole time and attention to this one line. We have everything you need, namely, Lime-Sulphur, Soluble Sulphur, Arsenate of Lead, Raw Sulphur, Gasoline Engines, Trucks, Hand Pumps, Power Pumps, Tank Fillers, Folding Tows, High Pressure Hose, Spray Rods (Aluminum or Brass Lined), Nozzles, Hydrometers and all accessories.

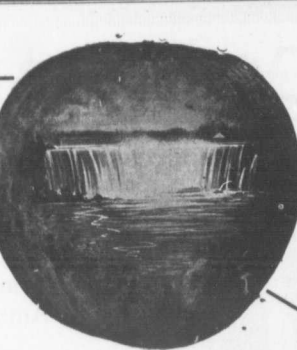
OUR MOTTO IS: Best Quality, Best Treatment, Best Service, Reasonable Prices

Niagara Brand Spray Co., Limited Burlington, Ontario

Our other Factories:

NIAGARA SPRAY CO., of N.S.,
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NIAGARA SPRAYER CO.,
Middleport, N.Y.
NEEDFORD SPRAY CO.,
Medford, Ore.
OREGON SPRAY CO.,
Portland, Ore.



A Visit to the Home of a Noted Breeder of Jersey Cattle

(Continued from page 13)

while, Mr. Duncan preferring a somewhat stronger type of cow than has been popular with judges at Toronto the last few years. Among the cows are several of the St. Lambert type, and all of them were of the strong constitution, capacious type of cow that will return high yields at the pail. Individuals that have been tested have splendid records to their credit. One deep, strong cow, Golden Duchess, in two months this summer made 3,168 lbs. of milk without special feeding. Another, Sunshine of Don, a typical St. Lambert cow, in two months produced 3,374 lbs. of milk. Many other splendid records might be mentioned, but these are typical. When last tested, the average for the whole herd was five per cent. of butter fat.

"We Jersey men have shared amply in the prosperity that is coming the way of all breeders of good dairy cattle," remarked Mr. Duncan. "We have filled orders from all parts of the United States and Canada. We have now left for sale only four yearling bulls, two yearling heifers, and a few heifer calves."

In his breeding operations, Mr. Duncan has followed a far-sighted policy, the only policy that can stand the test of years. He has kept constitution and milking qualities always first and considered fancy points only in so far as they can be united with practical work at the pail. As a result he now has a herd that will meet the needs of anyone who admires a nicely proportioned Jersey, and at the same time demands one

that is commercially profitable. The few animals that Mr. Duncan still has for sale are good individually and of choice breeding. They are the kind we can recommend to the practical dairyman as well as to the breeder of high-class show stock.

What One Man May Do the Steak of a Country

(Continued from page 11)

and has yet to meet her equal in Canada. She, too, will be included in Dr. Hassard's string at Guelph next week.

The quality of Dr. Hassard's importations is proved by his showed in Canada. Not only has he secured some of the greatest show horses of Scotland and of France, but at Canadian Exhibitions he has long been a well-known figure. This year at Toronto he figured largely among the winners in both Clydesdale and Percheron classes. At the coming Winter Fair at Guelph, Farm and Dairy readers will do well to inspect some of Dr. Hassard's best animals.

More heavy horses should be raised in Canada. The demand always has been, and for the next generation, at least, will be, far in excess of the supply. No greater argument could be given as to the advisability of going into the breeding of heavy horses than the prices that are being paid on the open market for horses of draft type. Our readers who are looking for pure bred stock of this class could spend a profitable day with Dr. Hassard at Markham.

Keep the cattle in at nights now, and give them a good feed of corn ensilage, with some grain mixed in.

PRIZE CONTEST NEWS

Here is the spirit that wins prizes: One contestant writes: "I am going to win the first prize if it takes me to next summer." All winter long he will have some hours each day when he can work, while others are taking life easy. Next spring he'll be driving a fine young horse and a new buggy, while the others will have to be content with good old "Harry" and the old buggy repainted and rehooped, but still quite a rattler.

SUCCESSFUL LADIES

The ladies don't yield to many of the men when it comes to hustling. Some of them want horses and buggies, but the majority have determined to win pianos. Better than the men they appreciate how much more attractive a piano makes a home, and she can play. Some of the girls have their fathers and brothers and men friends all working for them, but that does not get more subscriptions than all can get more subscriptions than all the men folks. One shows the copy with the contest, and says, "I want to get this piano, and you just must give me a dollar to help me. I get a \$25 piano for only 250 subscriptions, and you get a paper for little more than cost of postage."

BOYS COMING STRONG

Some of the boys are well up among the contestants. There's a beauty of a bicycle that only requires 50 subscriptions, and I tell you, boys, that bicycle is worth the work. You'll think so when the good roads come along in the spring, and you can slip away for a moonlight spin.

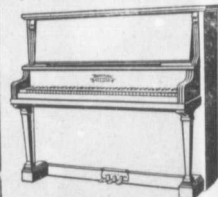
THE WINNING WAY

We have circulars to send to your friends in letters and other helps with which we will gladly supply you, but the way to get a big list of subscriptions is by a good personal talk. Make a thorough sweep of the neighbor-

hood; don't miss a person. Go back again to the man who refuses you once; you will get the order the second time when you tell him of all the people who are subscribing. The winning way is: Keep hard at it—don't give up.

TILL MAY IS

The contest doesn't close till May 1st, so everyone can earn the prize desired. New contestants can start right now and get any prize in the contest. Take this beautiful Christmas number out and you'll get an order nearly every place. We give the rest of the year free—\$1.00 pays to Jan. 1st, 1914. How would a fur-lined coat feel about Christmas time; it only takes 50 subscriptions.



The beautiful \$250 Dominion Piano given for 50 subscriptions is the prize many ladies want.



\$45 Cleveland Bicycle given for 50 subscriptions. Every boy can get that much.

Chee

Good local near Peter Woodcocks 70 m. from Toronto. See my list of sheep dog attention son, and in the mutton.

BOX 86,

A Farm and Stock Good to Look Upon.

(Continued from page 8)

Among the younger horses we noted nine, mostly light horses and of Hackney breeding.

The work horses used by Mr. Watson are of the carriage type. He believes them to be the best workers and most satisfactory, taken all round.

ABOUT HIS YORKSHIRE SWINE

The owners of Spruce Dale Stock Farm take special pride in their Yorkshire swine. They have the popular Minnie and Bloom strains. Mr. Watson does not believe in keeping his breeding stock too closely confined, nor in feeding them too heavily with grain. His sows were in excellent condition, yet they were depending upon a paddock of rape for their sustenance. His pigs are of that type which is in best demand. They are smooth, even pigs, with well arched backs, good bone and showing plenty of constitution. Several sows ready for breeding by Christmas time and some young sows, having had their first, second and third litters and already bred again, are offered for sale. These are all growtly, well doing pigs.

A considerable flock of sheep, grade Shropshires, and pure bred registered Leicester, are kept at the Spruce Dale Stock Farm. Mr. Watson thinks a lot of his sheep. He says they are the most profitable live stock he has on the farm, and they are invaluable in ridding the place of weeds, apart from their value as direct profit makers.

The Spruce Dale Stock Farm comprises some 300 acres. It is of loam soil, quite dark in nature. It is most pleasing to look upon, being just slightly rolling, so as to be easily drained. All the improvements in the way of an up-to-date and well-equipped stable, gasoline engines, corn husker and shredder, ensilage cutter, silo, and a full outfit of modern machinery, we noted while inspecting the farm. Other than the ordinary crops grown on this farm, Mr. Watson specializes in beans, of which he has 30 acres, and corn, to which he devotes another 30 acres annually.

Mr. Watson is blessed in having two sons, one 19 and the other 21, both of whom are decidedly interested in the farm, and in their pure bred live stock.

The post office address of these breeders is A. Watson & Sons, R. R. No. 1, St. Thomas, Ont.

Sheep on a Dairy Farm

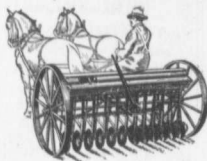
(Continued from page 5)

grain and hoe crops, as long as the crop will allow. Then I turn them on the road to trim weeds and grass there. A lot of rubbish is got rid of and turned into profit. To encourage the sheep to be home at night, I put a few oats in their pen and they seldom forget to come around. After crops are harvested I turn the sheep back to the fields again to gather up weeds and other forage.

I winter my sheep on clover hay, grain rakings, ensilage and roots. Managed in this way the flock of sheep does not require much time or attention, especially in the busy season, and they return me a tidy sum in the year from wool, lambs and mutton.

Cheesefactory For Sale

Good location in village, Durham county, near Peterboro line. Fully equipped. Make exceeds 70 tons cheese. Reason for selling, must wind up estate. For full particulars apply to
 BOX 886, FARM AND DAIRY, ONT.



There is no other Farm Machinery like the Peter Hamilton Machinery
 None so admirably adapted for all conditions of work—none so durable or easy to operate—none so fast working or so light of draft.

Binders, Mowers, Rakes, Plows, Harrows, Cultivators, Seeders, Root Pulpers, Feed Cutters, Etc.



The Peter Hamilton Company, Ltd.
 PETERBOROUGH, ONT.

Mr. Farmer! You Are Paying For Good Fences

Why Not Have Them?

That's the plain unvarnished truth. If you have not good fences around your fields you are paying for mighty good ones. But—don't take our word for it. Take a pencil and jot down what poor fences have actually cost you during the last few years. The total is a great deal more than the entire cost of good fences

"FROST" FENCES

ARE GOOD FENCES—WORTH MORE THAN THEY COST

That's the candid opinion of hundreds of practical farmers—men who judge a fence by its durable qualities—the long years of service they get out of it. Here are the real reasons for the lasting qualities of the "Frost" Fence—the reasons why we so fearlessly guarantee it.

We know the quality of every rod of wire woven into the "Frost" Fence for the very good reason that we make it at our own mills, every inch of it.

Laterals and up-right wires are No. 9 Hard Steel of thoroughly tested stock. The laterals are permanently waved—this gives that wonderful resilience—the come-back qualities for which the "Frost" Fence is famed.

Note the tie wire—it is wrapped several times around both Laterals and stays making an extra neat and doubly strong binding.

Remember this: You should judge a Fence by what it is going to cost—not by the price asked.

If you have any lingering doubts on the Fence question ask us to give you the names and addresses of farmers who know from experience. Or call on the "Frost" dealer of your locality. If you don't know him we'll introduce you.

FROST WIRE FENCE CO., LIMITED
 HAMILTON, ONTARIO

Brookside Segis Korndyke

RECORD as a 2-year-old:—20.9 lbs. butter, 415.5 lbs. milk.

As a 5-year-old:—29.80 lbs. butter, 578.5 lbs. milk, (seven day records)

And 119.7 lbs. butter, 2,449.9 lbs. milk in 30 days.



We have a peach of a Bull from this cow that

We Offer For Sale

Straight, nicely marked and sired by H. A. Moyer's herd bull King Walker Segis. He was imported in dam.

We have also some very nice Bull Calves from Sir Lyons Segis for sale.

We also offer a few extra well-bred Clydesdale Stallions, mares and fillies. Also Hackney Stallions and Young Mares that have been winning at shows.

It will be a pleasure for us to meet you and show you our stock by request.

ALLISON STOCK FARM

W. P. ALLISON

CHESTERVILLE, ONT.

The Best Cattle

EVER OFFERED THE BUYING PUBLIC

Will be sold at the

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Second Annual Consignment Sale

of the

Southern Ontario Holstein Breeders

Wednesday, Jan. 1st, ^{New Year's Day,} 1913
At TILLSONBURG, ONT.

Plan to attend our sale. Cheap rates on all Railroads.
Write for your copy of catalogue.

Watch FARM AND DAIRY for full particulars in Holstein reading columns and large advertisements.

R. J. KELLY

Manager for Southern Ontario Consignment Sales Company

TILLSONBURG, ONTARIO



Profitable Ayrshire Herds I Have Known

(Continued from page 4.)

that "Willowmoor" will yet prove a much greater magnet of Ayrshire interest than any of them. Here the founding of the herd was breaking virgin soil with a vengeance and my first impression of "Willowmoor" will not readily be forgotten. To anyone not familiar with the operation of clearing heavy stump land the scene is simply indescribable, but brains, brawn and money can work wonders, and to-day he who looks on "Willowmoor" sees a dairyman's paradise.

PIONEERING WITH AYRSHIRES

The founding of the herd there presented some peculiar problems, and we had no man's experience to draw on, as it was pioneering as well as founding. One thing we quickly learned, and that was that animals had to become acclimated before giving the best results, but this presented no great difficulty as it was only a case of go easy for the first two or three months. The foundation of the herd was mainly of Scotch cows



Farm Buildings that Testify to the Profitableness of Dairying in Nova Scotia "Maple Leaf Dairy Farm," the home of H. A. Dickson, Colchester Co., N. S., has not always been exclusively devoted to dairy cows, but during the past few years the main branch and the milk returns are largely responsible for the splendid buildings that now grace the farm. Mr. Dickson has recently made a start with pure bred Guernsey cattle and, for a beginning, has been successful in the Provincial Exhibition at Halifax. With testimony such as is afforded by homes such as this, is it any wonder that dairying is progressing in Nova Scotia?

—Photo by an editor of Farm and Dairy.

selected with the production end in view, and the results obtained, I think, have justified their selection. They have already captured the World's Record of the breed for butter production, and this is only a forerunner of what will yet be accomplished. Here the keeping of records started with the founding of the herd, and in no haphazard way either, every cow's milk being weighed regularly and tested monthly and the totals entered in the herd register. The same accurate record was kept of breeding and every move made in the building of the herd. In fact, so well had this work been systematized that it was possible for me to step out and my successor take over the management, without the least confusion or a halt in the progress of the herd.

SHOW ANIMALS FOR EXCELLENCE
My next move found me back in New York State, in charge of the "Ryanogue" herd, which during the past three years has presented something of a revolution to the American fair goers in the form of a show herd. Here conditions of an entirely different nature had to be faced from what I had at "Willowmoor," but they only helped to emphasize the adaptability of the breed, as the Ayrshire seems to take just as kindly to the limestone hillsides of Eastern New York as the flat fertile valley land of Washington, and make records of no mean order. It has been, however, in the formation and development of a crack show herd that "Ryanogue" has become famous, they making almost a clean sweep this season wherever shown. This, I think, closes my chapter, and some other day we may tell you whether our own herd at "Springburn" can be classed among "The Profitable Ayrshire Herds I Have Known."

Doss Record Making Injera?

(Continued from page 7.)

all breeds and ages. When in her fifteenth year she made the best year record of the ever made. There is no man who will develop a heifer and make her a large producer as will testing her.

In feeding for records the offspring of the cow may be affected if the cow is dry for some time before freshening and loaded with fat. It has a tendency to weaken the offspring. We have never had a weak calf ourselves. If we want a good heifer, we will feed him well from the time he is foaled, then when he is old enough give him plenty of work to harden him without overdoing him. If we want a good cow we start when she is a calf, feed her well, and when old enough, feed and milk to her capacity, but never overdo it.

The Story of a Pure Bred Herd

(Continued from page 4.)

granddaughter of this cow when a few days old for \$40, and still have four living daughters and grand-

daughters which I would value very cheaply did I price them at \$600. This makes a total of over \$1,000 in four years from one cow. Two years ago I bought two more cows from Mr. Simmons, but had the misfortune to lose one of them.

We made our first combination sale four years ago, disposing of most of our grades. Two years ago at our second sale, when all of our grades together with a number of pure bred cows were sold, our grade cows brought from \$95 to \$100 each. Last spring we held our third sale and disposed of about 40 head, all registered stock.

ALMOST TWICE THE RETURNS NOW

Although unable to give accurate figures regarding the amount received for each cow at the time I took the herd in hand 10 years ago, I am safe in saying that the monthly cheese cheques did not exceed from \$35 to \$45 with nine cows producing milk in 1911, and a very unfavorable season it was, our cheese cheques ranged from \$75.87 to \$101.58, or a total of \$517.40 for six months from a herd of eleven in milk, six of them being heifers. I have sold young stock from our pure bred cows, together with the grade cows, to pay for our foundation stock, and we have to-day a pure bred Holstein herd worth, I consider, more than four times the same number of animals of the quality that were kept on the farm 10 years ago. At that time our female calves were worth no more than the males—from \$2 to \$5 each for a year. To-day we have no trouble in disposing of our female calves at a day or two old for \$50 and \$60 each.

All our mature cows have records better than 10,000 lbs. of milk in a season, and our two and three year old heifers range from 7,000 to 9,000 lb. of milk a season.

Get the Engine That is Easiest To Keep Running

SIMPLEST engines to operate - that's the reason most farmers choose and recommend

Chapman & Stickney
Gasoline Engines

No expert engineering knowledge needed to run them. No intricate parts that easily get out of order. If you want most service, write for our FREE book of "Engine Facts and Experiences."

ONTARIO WIND ENGINE & PUMP CO., Limited



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167 ACRES Choice Land in Smith Township near Peterboro FOR SALE

Close to cheese factory, school, churches. Large barn, good stables. Water by springs and wells. Windmill supplies buildings. Large Red Brick House, with hot air furnace. Plowing all done, 124 acres Alfalfa; 29 acres new seeded red Clover; 22 acres in Fall Wheat. Write or come and inspect, early possession.

MRS. R. SCOTT, PETERBORO, ONT.

FOR SALE

3 DE LAVAL TURBINE SEPARATORS 1500 capacity. Also 2 second-hand Boilers, 12 and 15 horse power. All in good repair. Address: FARM AND DAIRY, Box 388, Peterboro, Ont.

POULTRY YARD

Effect of Feed on Breeding
J. Dodds, York Co., Ont.

With most of us farmers the breeding flock is also the laying flock. During the coming winter we will be directing our feeding to secure as many eggs as possible when they bring the most money. We should not forget, however, that the kind of feed that we give our poultry has a direct influence on their ability as breeders; that is, on the percentage fertility of the eggs and on the health of the chickens afterwards.

Up at the Ontario Agricultural College they have conducted a series of experiments with various poultry foods that lead cut to the conclusions that I have come to from everyday observation. They found, for instance, that when meat was a part of the diet a very large percentage of the eggs were infertile and that the chickens hatched from the eggs that were fertile were not as healthy as those hatched from eggs that were laid by fowls that had not received meat the winter previous. Many of the prepared poultry foods that embodied a large percentage of meat were found to have the same results on egg fertility.

But it is necessary if we would have eggs that we feed our poultry protein rich foods as protein is the chief constituent of the egg. We have used milk to substitute meat, and I note that in the O. A. C. trials eggs from milk fed hens were highly fertile. We can afford to let the pigs drink water if thereby our poultry get all the milk they want. I prefer to allow the milk to sour thoroughly, until it is thick, before feeding.

Mashes - Wet or Dry

C. Brett, Chateaufort Co., Que.

Shall we feed our fowls wet or dry mashes? I find that about as many poultrymen favor the one as the other and from the standpoint of practical results in egg production I cannot see that the wet mash has anything on the dry mash. I understand that in trials that have been made at experimental stations here and there, the results were sometimes favorable to the wet mash and at other times to the dry mash.

We prefer the dry mash for our poultry. Looked at from the standpoint of labor and convenience there is all the difference in the world between dumping a mixture of grain into a hopper once or twice a week and laboriously wetting and stirring the same meal ration every day. In addition, we find that wet mashes are very apt to freeze in our open air poultry house even before the fowl are satisfied. We notice further that when hot mashes are placed before them the hens gorge themselves and then sit around uncomfortably for a couple of hours. There is no inducement to gorge themselves on the mashes, and they eat slowly and naturally.

"The Care of Market Eggs," by W. A. Brown, B.S.A., recently issued by the Dominion Department of Agriculture, is a pamphlet that every poultry man and egg dealer should have. The 31 pages of the bulletin are profusely illustrated and proper methods of handling eggs from the farm to the consumer are advocated. The bulletin is interesting and practical from first to last. It may be had on application to the Department of Agriculture at Ottawa.

ROYAL PURPLE Stock & Poultry Specifics

FREE

We will send absolutely free, for the asking, postpaid, one of our large 64-page books (with insert), on the common diseases of stock and poultry. Tells how to feed all kinds of heavy and light horses, colts and mares, milk cows, calves and fattening steers, also how to keep and feed poultry so that they will lay as well in winter as in summer. It contains 360 recommendations from all over Canada, from people who have used our goods. No farmer should be without it.

You can fatten cattle and hogs in a month's less time by using our Royal Purple Stock Specific than you could possibly do without it, thereby saving a month's feed and labor and the cost to you will not be more than \$1.50 for six pigs or \$1.00 for one steer. It will keep your horses in show condition with ordinary feed. If you have a poor, miserable-looking animal on your place try it on this one first and see the marvelous result which will be obtained. Our Stock Specific will increase the milk flow three to five lbs. per cow per day while being fed in the stable. A 50c package will last a cow or horse 70 days.

ROYAL PURPLE POULTRY SPECIFIC will make your hens lay just as well in the winter as in the summer, and will keep them free from diseases. These goods are pure and unadulterated. We do not use any cheap filler to make a large package, entirely different from any on the market at the present time.

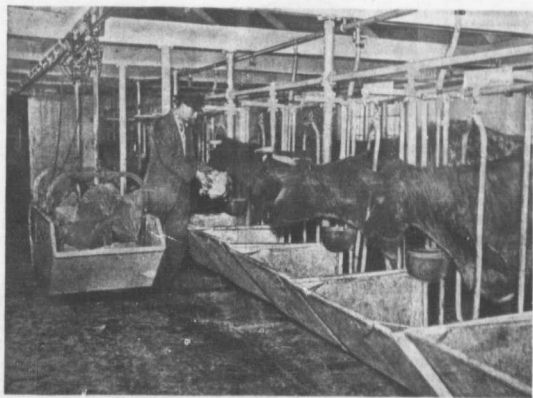
- Royal Purple Stock Specific, 50c pkgs.: four 50c pkgs., in an airtight tin, for \$1.50.
- Royal Purple Poultry Specific, 25c and 50c pkgs., and \$1.50 airtight tin that hold four 50c pkgs.
- Royal Purple Lice Killer, 25c and 50c tins; 30c by mail.
- Royal Purple Gall Cure, 25c and 50c tins; 30c by mail.
- Royal Purple Suez Lintment, 50c bottle; 60c by mail.
- Royal Purple Cough Cure, 50c tin; 60c by mail.
- Royal Purple Disinfectant, 25c and 50c tins.
- Royal Purple Roup Cure, 25c tins; 30c by mail.
- Royal Purple Worm Powder, 25c tins; 30c by mail.

Assorted order amounting to \$5.00 prepared.

Manufactured only by **The W. A. Jenkins Mfg. Co.** London, Canada

NOTE ACORN COW BOWLS

IN THIS ILLUSTRATION



FARMERS who use Acorn Cow Bowls have demonstrated that the producing power of their cows is much greater in the winter months.

When you equip your stables with Acorn Cow Bowls you insure that every cow will have all the fresh water, at a moderate temperature, she can drink during the winter months.

Acorn Cow Bowls are made so they may be placed at different heights in different stalls if necessary. They are not dependent on the old fashion float system, but draw their water supply from a tank on the barn roof. Chaff and dirt cannot clog nor spoil the mechanism of the bowl, and a cow may drink as much as she wishes without anyone operating the bowls.

Space prohibits our telling all about the Acorn System. Write us for booklet and further particulars.

THE METAL SHINGLE & SIDING CO. Ltd., PRESTON, ONT.



Steel Water Troughs

REPLACE insanitary and disease-breeding wooden troughs with clean and rust-proof steel troughs. These are made of heavy galvanized steel, thoroughly riveted and soldered so that they cannot leak, and finished on the outside with aluminum. We will send you one on free trial; if not satisfactory return it. Prices are reasonable, ranging from \$7.50 to \$20.00, according to size.

Send for Illustrated Folder

STEEL TROUGH & MACHINE CO., LTD.,
6 James Street, Tweed, Ont.

FREE catalogue giving descriptive list of rural books for farmers, stock raisers, poultrymen, etc. Write for it. Book Dept., Farm and Dairy

A Great Family in a Great Herd

(Continued from page 10.)
over 17,000 lbs. milk in yearly record with an average test of 3.7. Her daughter, Lawncrest Lee De

200 candle power of pure white brilliant light costing less than 3¢ per hour. No smoke, or odor. No greasy oil lamps. No wicks to trim. So simple a child can operate it. Cannot explode—absolutely safe—fully guaranteed five years. An ornament in any home. Write today for circular Dept. P. **RICE-KNIGHT LTD.** Toronto or Regina

Kol, at 2 years flat and no days of age, made 304.2 lbs. milk in 7 days, and 14.17 lbs. butter. She has completed a yearly record at this age of 10,000 lbs. milk, with an average per centage of fat, 3.65.

Many tests will be made by Mr. Mallory this current winter. He expects to be able to add more laurels to his present great May Echo family of Holsteins.

FACTS WE NOTED ON INSPECTION

It was a rare pleasure for us to be with Mr. Mallory, and out amongst his cattle, looking them over. The old cow, Rosa Lee De Kol, mentioned above, approaches the ideal in type. She was just about dry when we saw her and Mr. Mallory said she had made a greater part of her big record, being milked only twice a day. Mr. R. S. Stevenson, who saw this cow at one time, told Mr. Mallory that if he had her in shape she could not be beaten at the Toronto Exhibition. The daughter of this cow, Lawncrest Lee De Kol, (record given

NOTICE

One of the special features we had arranged for this great Breeders' Number of Farm and Dairy — A 2-PAGE CENTRE SPREAD showing the noted pure bred stock and the buildings at the Colony Farm, Mt. Coquitlam, B.C. — we are obliged to leave out of this issue on account of the copy being lost in the mails.

For over 3 weeks we have been tracing the lost parcel of photographs. On these coming to hand, as we are hoping they will yet turn up, we shall give our readers the benefit of the picture in one of our subsequent regular issues.

(see above) appealed to us greatly. She is of the same desirable type. She is mostly white. She has a skin more yellow, and of a deeper cast about her eyes and other parts where shown, than any other Holstein we can recall having seen. Mr. Mal-



For Bacon or Breeding, Equally Good
J. J. Dunsfield, Dauphin, Man., finds that it does not cost any more to raise pure-bred Yorkshires than the ordinary kind designed as "just pig." Even when one comes to market them the pure-bred kind bring just as much, or perhaps a little more, if sold for bacon, as does the pig of common breeding, and if one has really good stock, the most of them can usually be disposed of for breeding purposes at higher prices than they would ever bring for bacon. It does not require much capital to start into pure-bred hogs either.

lary told us that this cow tested 4 percent in butter fat all summer. A half sister of her's, Lee Keyes De Kol, is another one we noted as being an outstanding individual in the matter of this superior type we have mentioned, she being of great quality, straight and deep, and just as the most exciting want him.

A BULL WORTHY OF HONOR
Space at our disposal forbids that we give the half of what we would like to say at this time about these cattle, so we must reserve it for a future date. We want to mention, however, the bull, Inka Sylvia Beets Posch. This bull was not at home, we were with Mr. Mallory at the Lawncrest Farm, but we understood that this bull has got more daughters in the R.O.P. (Record of Performance) than any other bull of his age.

It is with regret that we must conclude at this writing what we have to say about this truly great herd, which has been bred now for 28 years on this one farm, and during this whole time mighty little buying and selling done. Our readers will have to wait for another time to get the rest, or better still, plan to visit Mr. Mallory, see his stock, and horns, and get from him a bull or a foundation start, which coming from this herd cannot well help but prove good and turn out to be very profitable.

ACCEPTABLE XMAS GIFTS FOR GIRLS AND BOYS

The Little Ones will appreciate a Christmas Gift of any one of these High Grade Garments, give them the surprise they have been looking forward to. It is not too soon to order now, as the Festive Season is drawing nigh.

QUALITY—ECONOMY—SERVICE

Handsome Coats The "Etonia" & "Sou-Wester" Combination

18-800



27-624.—Made with fashionable box back, double breasted with large fancy buttons, plain tailored sleeves, patch pockets and turned down collar. Good full cape finished with a) in band of self material piped in red and finished with small, fancy buttons. A very sensible coat of navy only. Sizes 6 to 14 years. **\$6.98**
Price

THIS BEAUTIFUL DOLL

37-104 — Jointed Dressed Doll—20 inch, satin dress, in pink, blue or red, with wide applique lace trimming down front of blouse and skirt, fancy hat to match **98c.**

English single Texture Slip-On Waterproof for Children; finished with Vertical Pockets and wide close fitting collar. This Waterproof is a beautifully finished garment and guaranteed absolutely rainproof.

Boy's sizes:—
28 in. to 36 in. chest **\$4.50**
36 in. to 46 in. long

Misses' Sizes:—
26 in. to 32 in. bust **\$3.98**
40 in. to 48 in. long

Hats of Sou' Westers to match—
Sizes 6 1-2 to 7 1-2 . . . **59c.**



We Prepay all Delivery Charges, the prices quoted are all that we ask you to pay.

Goodwins Limited
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MONTREAL, Canada.

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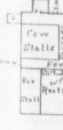
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Transformation of a Farm

(Continued from page 3)

greatly wasted each day through walking around through the barnyard and out past the end of one of the barns to get from the cow stable to and from the house. To think was to act. Therefore he made an estimate of the time lost going to and from the stable each day with things as they were. The results surprised him. He figured that he went to the



Very Cheap but also Efficient

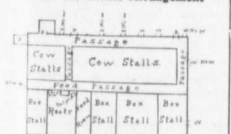
Handling the milk and cream right in the stable is not a good practice. When young Mr. Tamblin took over the management of the home farm, one of his first things to build the cheap but nevertheless efficient milk house here illustrated. The door which leads into the stable is kept closed and thus the close proximity of the milk room to the stable does not have a deteriorating effect on the quality of the milk.

-Photo by an editor of Farm and Dairy.

cow stable on an average of five times a day and that because of the lack of a door in the end of the barn, that he had to walk 90 yards farther each time than he otherwise would. This he figured was equal to over a quarter of a mile a day and to 93 miles in a year, to say nothing of the time lost by others on the farm when going to and from the stable. This settled it. At the first opportunity he went to the swamp and cut some cedar posts for the frame of



The Old Stable Arrangement



As it Looked when Remodelled

Compare this plan with the plan above. It shows how A. J. Tamblin rearranged the old stable to hold many more cattle, to be more convenient to work in and much lighter as well. Note the new window. Note the beam in the feed passage of the old barn. This was removed in remodeling and it is no longer necessary to stick the head when going under it.

a door. He then knocked a hole through the end of the cow stable, and built the door with a covered porch, which is illustrated in this issue. The door cost two dollars and a half. Its benefit has been appreciated every day since. It has saved walking through the barnyard, which at certain seasons was often dirty.

The same winter he set to work in his spare time and tore up the old wooden flooring that had done duty for years in the cow stable and re-

placed it with a cement floor, which he made largely by his own work. It would be hard to state which of these improvements he has appreciated the most.

MORE WINDOWS PUT IN

One of the next improvements John decided to make was in the lighting of the stable. The stable was lighted by only four windows. One end of the stable did not have a window at all, and the other end only a small one. On thinking this over John decided that this could not be good for the stock. He also thought the lack of light made it difficult and unpleasant for him and the men to work in the stable. Having reached this conclusion he set to work and put in five new windows, including one at the end of the stable where there had been none before and another one at the other end. This naturally made a vast improvement in the stable. It is now well lighted. Again, the expense involved amounted to only a few dollars.

INSTALLED A WATERING SYSTEM

For years it had been the practice on the farm to let the cattle out each day to water. This wasted much time and the stock often were very thirsty before the time for their next drink came around. Mr. Tamblin's first attempt at improvement in this condition was to install a barrel at each end of the stable. Out of these the cattle were watered. The next summer he made some wooden moulds and from them constructed some cement basins which he installed in front of every cow. The installation of a feed and escape pipe at the expense of only a few dollars resulted in the stable being equipped with this modern system of watering the stock and at only trifling expense. The water was obtained from a spring creek by means of a hydraulic engine, which also supplies water for the house and in the horse stable and hog pens.

RAISED SOME BEAMS

These successes led Mr. Tamblin to decide to make still further changes. For years he had been necessary, when passing back and forth in the stable, to duck one's head to avoid striking a large beam that ran along the ceiling in one of the passages. He decided to raise this beam. His father was afraid that to do so would

(Continued on page 48)

Show Ring Consideration of Production

(Continued from page 5)

I am strongly of the opinion that our dairy cattle judges should pay more attention than they do to the "practical utility points" of our dairy cattle. In doing so (as regards Ayrshires at least) they would only be conforming more closely to the official standard. A great many Ayrshires in my estimation appear to attach too much importance to the white color, stylish appearance and wide set horns, disregarding the more important points of udder, teats and mammary veins. In our official scale of points for the Ayrshire cow we allow one point for perfect horns, two points for color and four points for style, while for udder we allow 22 points, teats eight points, and mammary veins five points.

Taking all things into consideration, therefore, I am of the opinion that the best results will be obtained from judging by comparison when the placing is done by thoroughly competent and trustworthy men who will closely adhere to the standard set by their respective breed associations.

In renewing his subscription to Farm and Dairy, Mr. S. B. McLean, of Huron Co., Ont., says: "Long may Farm and Dairy live and prosper in its good work."

ABSORBINE strengthens the muscles and ligaments, keeps out soreness, prevents fatigue, stops ANTISEPTIC AND GERMICIDE, and therefore especially effective in healing cuts, sores, galls, bruises, etc.

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We teach you by mail to stuff and mount all kinds of Birds, Animals, Game-Headed. Also to taxidermy and make traps. Discover your loss with our beautiful trophies, on command but no money advanced. Success in spare time by mail. Send money. Success. "How to Mount Birds and Animals" \$1.00. W. W. SCHOOL of Taxidermy \$1.00. W. W. SCHOOL of Taxidermy \$1.00.

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We furnish free cans and pay express charges. Our cheques are issued every fifteen days and are cashed at par any where. If you live in Ontario and milk cows why not ship your cream to the best market? Write for fuller particulars. TORONTO CREAMERY CO., LIMITED, TORONTO, ONT.

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And in the LECTURE HALL you will learn how they were produced, from PRACTICAL LECTURES,
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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, Eastern and Western Ontario, and Alberta, Prairie, Quebec, Dairy-men's Associations, and of the Canadian Holstein Cattle Breeders' Association. **SUBSCRIPTION PRICE, \$1.00 a year (Great Britain, \$1.50 a year.** For all countries except Great Britain, add 50c for postage. Notices of the expiration of subscriptions are sent to all subscribers, who then continue to receive the paper until they send notice of discontinuation. No subscription is considered for more than one year after date of expiration. A year's subscription free for a club of two new subscribers.

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5. WE INVITE all farmers to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT
The paid subscriptions to Farm and Dairy exceed 14,725. The actual circulation of each issue, including copies of the paper sent subscribers who are not slightly in arrears, and sample copies, is over 14,725 to 17,000 copies. No subscriptions are accepted at less than the full subscription rates.

Sworn detailed statements of the circulation of the paper, showing its distribution by counties and provinces, will be mailed free on request.

OUR GUARANTEE

We guarantee that every advertiser in this issue is reliable. We are able to do this because the advertising columns of Farm and Dairy are as carefully edited as the reading columns, and because to protect our readers we turn away any suspicious advertiser. Should any advertiser herein deal dishonestly with you as one of our subscribers, or if you, as a subscriber, we will make good the amount of your loss, provided such transaction occurs within one month from date of this issue, that it is reported to us within a week of its occurrence, and that the facts to be ascertained. It is a condition of this contract that in writing to advertisers you state "I saw your advertisement in Farm and Dairy."

Refuge shall not ply their trade at the expense of our subscribers, who are our friends, through the medium of these columns, but we shall attempt to settle all trifling disputes between subscribers and honorable business men who advertise, nor pay the debts of honest bankrupts.

FARM AND DAIRY

PETERBORO, ONT.

OUR SHEEP INDUSTRY

Australia, with an area not as great as Canada, and with a climate not as favorable to sheep husbandry, has one hundred and seventeen million sheep. Argentina, another country that does not begin to equal Canada in area, has seventy-seven million sheep, and Great Britain, a comparatively small country, has thirty million four hundred and eighty-four thousand sheep. Canada, numbered among the first of all nations of the world in agricultural area, is credited with but two million six hundred and thirty-one thousand eight hundred and twenty sheep. We come twenty-sixth among the countries of the world in the importance of our wool and mutton trade.

Why should this be so? It is not due to the lack of favorable soil and climatic conditions, as the success of many of our farmers who do keep sheep amply proves. We believe that the biggest reason for our backwardness in sheep husbandry is our lack of knowledge; lack of knowledge of

the profits of the industry, lack of knowledge in the feeding and management of sheep and lastly, lack of knowledge in the marketing of mutton and wool.

There should be a place for a small flock of sheep on practically every farm in our land. Prof. Warren of Cornell University, who has conducted a most thorough research into the management and profits of something over 6,000 farms, found that the greatest net profit was being made by those farmers who had one or two main lines with several smaller branches to supplement the income. Sheep husbandry should offer to the dairyman a profitable side branch that Prof. Warren found to be of such decided advantage in making a favorable balance for the whole farm. Sheep should be found particularly adaptable to those farms on which there is considerable rough land.

Sheep do not require much care, but in those seasons of the year when they do require attention it must be good attention. The "know how" can be easily acquired by any reading, thoughtful farmer. To overcome our other difficulty, that of marketing, farmers and the government might well cooperate.

If sheep were only given a fair chance in Canada, we predict that their country would not long remain in twenty-sixth place among the sheep raising countries of the world.

INTENSIVE FARMING

"The little farm well tilled," has long been held up to us as the most desirable and most profitable type of agriculture. Those of us who farm "90 to 200 acres of land and find it hard enough to make ends meet, sometimes do not take seriously the stories of success on farms of only 10 to 15 acres. But when we run across such an example of success on a small farm as is afforded by the experience of Mr. J. W. Clark, of Brant Co., Ont., the most skeptical of us must admit that the small farm well tilled is not a myth but a most profitable reality.

From his 25 acres of land devoted to poultry, fruit and bees, Mr. Clark has an annual net return of over four thousand dollars. At the Horticultural Exhibition in Toronto week before last, an editor of Farm and Dairy had a short conversation with Mr. Clark, and learned that this year this Brant county farmer picked and packed nine hundred barrels of apples from five acres of orchard. These he sold at prices ranging from two dollars and twenty-five cents to two dollars and seventy-five cents a barrel. If the average price were two dollars and a half a barrel, Mr. Clark has received two thousand five hundred and fifty dollars from that five acres, or an average per acre of five hundred and ten dollars.

Mr. Clark's experience shows the results that can be achieved on a small area by the application of good agricultural and business methods. But there is a more direct lesson than this for the most of us in this experience. It should awaken many of us to an appreciation of the possibilities

that lie in our own orchards. Perhaps we have been considering the advisability of cutting the orchard out altogether. Mr. Clark was advised to cut out his orchard also, as it had never been profitable with the previous owner. Let us give the old orchard another chance, and results approximating those secured by Mr. Clark may be ours.

COOPERATIVE LEGISLATION

Cooperation among producers will never be on a sound and stable basis in Canada, until we have suitable legislation governing the formation of cooperative societies and to a certain extent regulating their management. Such legislation has been introduced in the Dominion House at a previous session, but was defeated through the influence exerted by the Retail Merchants' Association, who feared that it did producers and consumers get together in cooperative societies the business of the merchant might be injured.

Wisconsin, which may truly be termed one of the progressive states of the United States, passed a law recently which should be duplicated in our country. This law governs the incorporation of cooperative associations, and the fees to be paid for them. An essential feature of the law is that any number of persons, not less than five, may associate themselves as a cooperative association, society, company or exchange, for the purpose of conducting any agricultural, dairy, mercantile, mining, manufacturing, or mechanical business on the cooperative plan. It provides for the drawing up of the articles of incorporation and the filing of them with the secretary of state and registrar of deeds in the county in which the association is to have its headquarters. The fee for filing with the secretary of state is ten dollars, with five dollars additional for the filing of amendments. The fee for filing with the registrar of deeds is twenty-five cents.

The law provides for the distribution of profits on the basis of patronage, that is, only fair rates of interest are paid on capital invested and profits are distributed in proportion to the amount of business done by each individual in the association. The amount of stock that may be held by one person is limited, and each stockholder is limited to one vote. The law further provides a penalty for the use of the word "cooperative" by any organization that is not based on true cooperative principles; that is any company that pays profits on capital stock instead of on patronage, or does not comply with the requirements of the act, cannot use the word "cooperative."

It is such legislation as this that we need in Canada. We believe that it is the place of the Dominion Government to provide this legislation. At least ninety-five per cent. of the people of Canada could stand to benefit from the new law which wise legislation would give the cooperative movement. The interest of any small class in a com-

munity should not again be allowed to interfere with the making of such legislation into law. Who of our members at Ottawa will again introduce cooperative legislation in the House of Commons?

PURE BRED HERD AT LITTLE COST

The University of Missouri has a herd of thirty-five pure bred registered Holsteins, all descended from four cows purchased ten years ago for \$450. Animals have been sold from this herd for breeding purposes to the amount of five times the original cost price, and the herd now contains more than thirty cows, worth at least ten times the cost of the foundation stock.

Here is proof sufficient that one does not need large capital to embark in the pure bred stock business. Our greatest herds of dairy cattle today were not established by men of unlimited means. The most of our great herds started from very humble beginnings. A few head of pure bred animals introduced into the grade herd, then progeny reared, all the females tested and the best ones retained, and only the best bulls used—such is the story of many a great breeder's start. Many great herds of the future are now being started in just this way. Is yours one of them?

With this issue of Farm and Dairy

we publish the second letter in our new department, "High Farming at Hilldale."

New We have prevailed upon a recognized agricultural specialist to contribute the matter to go under this caption. He is the son of a leading western Ontario farmer who has made a big success of his dairy farms. While this writer has at late been engaged in work other than actual farming, it being some four years since he left the farm, he has been in closest possible touch with farming and has visited many leading farms in Ontario, other parts of Canada, and the United States. He does not wish to disclose his identity, and has chosen to write under the pseudonym, "Your Uncle Henry."

His writings will appear only in Farm and Dairy, and at times from week to week, with occasional omissions, to meet his convenience. We know "our people" will all enjoy this new department and get many helpful ideas and inspiration from it.

"Yes, I would like to have some pure bred animals about the place, but then you see you

Live Stock Insurance can get such big money for animals is such a risk."

How often we hear this advanced as an excuse for working along with stock whose only recommendation is that they are cheap. And there is an element of reasonableness in the explanation. There are many farmers whose places are heavily mortgaged and to whom the loss of a single pure bred cow might mean financial embarrassment for two or three years. In Europe they have found a way of minimizing this risk. The European farmer insures

AD. TALK
LVI.

What are the points making the big differences of price in pure bred live stock between various individuals and strains?

Is it a matter of size? or of conformation? or of color? or of breeding? or of production?

Yes. It includes all these points, and more. It includes one great big subtle thing so many may overlook: The fact of *some one else knowing* these various points about the individuals or strains and wanting the stock, and in order to get it will pay well for it.

This subtle something is a matter of demand. And this demand (granting that you first have stock that can make good) may be and is being created by advertising.

To illustrate the point we mention the sensational sale at Public Auction, of Lulu Keyes, last spring at Belleville; also the bull Pontiac Hermes. Other animals at this same sale were just as good (and it may have been better) as individuals. The latter stock, however, did not command the big and sensational prices. People *knew* about Lulu Keyes and Pontiac Hermes. They knew both strains these cattle represented. They *wanted* this "blood." They bid against one another to get it—all because they knew what it could do, and *knew* that *others knew* and wanted it and would buy stock as produced from it.

The day has come and now is when it pays progressive breeders to advertise to create this demand, as well as to make immediate sales. It pays them to advertise in display space in "top notch" mediums like Farm and Dairy.

Just like the manufacturers and the merchants, our leading breeders recognize that they must go after sales. Since the men who may good prices for pure bred stock are scattered, their best market is often a distant one. This they can reach and at a profit through advertising.

With the forward trend of progress, live stock advertising has improved wonderfully. It used to be mere cards. Now it represents real sales stuff. To wit, note A. D. Foster & Sons' advertisement, page 50, this issue; recall The Manor Farm—Gordon S. Gooderham's—advertisements, now running in Farm and Dairy in liberal space weekly for many months.

These ads. represent good and profitable business for these breeders. They ensure you that their stuff is right, else they could not afford to take the risk of advertising.

More and more will breeders come to advertise. We're out to help them, and to make their advertising profitable. Write us to help you through "F. & D."—**"A Paper Farmers Swear By"**

his stock just as we would insure our buildings. They have many systems of live stock insurance, ranging from the small cooperative insurance association to the big concern whose operations cover the entire country. Our farmers here in Canada do not work on such a small margin of capital as do most of European farmers, but even with us a system of cheap live stock insurance would be an inducement to many to go in for better live stock.

Shorthorn as a Milk Cow

(Continued from page 7.)

to developing one quality, but it is as simple to have both.

I have demonstrated this many times in my own herd. For instance, the cow Constance and Maple Lodge gave over 50 lbs. of milk a day, and at the same time she produced two bulls which were good enough in form to win highest honors at the Toronto, Winnipeg, and other large exhibitions, and a daughter of hers won first honors in the fat classes at the Provincial Winter Fair, Guelph. There must have been very high development of good beef type there, and at the same time 50 lbs. of milk testing 4.2 can surely be considered worthy returns as a milker.

Another cow, Irish Ivy, won first prize twice at Guelph in the dairy test, and gave in a 10 months test, 11,500 lbs of milk, without special feeding, and calved within the 12 months. Her highest daily milking record was over 55 lbs. a day. When turned on from milking, she rounded out into a very smooth, thick, evenly fleshed cow.

While the cows I have mentioned were bred of *Butes* blood, with some Scotch blood in top crosses, the most prepotent sire of good milkers we ever used in our herd at Maple Lodge was a large well fleshed bull of typical Scotch form, bred by W. S. Marr, Upper Mill, Scotland, sired by Royal Briton (29844), dam Apricot 11th by Prince Louis (27158). We used him one year only, and unfortunately lost him. He was, however, bred to several grade cows by neighbors as well as in our own herd, and I do not know of any cows sired by him that grew to maturity that did not give around 50 lbs. of milk a day.

Shorthorns are naturally good milkers, a quality appreciated by Mr. Bates and cultivated by him with great success in his herd and by many breeders in Great Britain and America ever since. It is too true that many breeders have neglected and often discouraged the development of the milking qualities. Yet a little care and persistent effort will establish them, and when present it is in so many Shorthorn cows, is one of the best recommendations of the breed, and proof that they thoroughly fill the dual purpose standard.

At Home with a Heavy Horse Importer and Breeder

(Continued from page 9.)

tioned on page 9 this issue, along with which we give description and comment.

After we had concluded our inspection and were coming away from the large horse barn, we remarked to Mr. Tisdale: "Does this one groom look after all the horses?" "Yes," he replied. "I've had the exception of rare occasions when he calls in one of the other men to lend a hand a while. It would not be possible for him to do this were the horses all Clydes. One man can look after twice as many horses as Clydesdales; they don't need the same attention."

DE LAVAL CREAM SEPARATORS

SKIM CLEANEST
TURN EASIEST
ARE SIMPLEST
MOST SANITARY
LAST LONGEST

De Laval Dairy Supply Co. Ltd
Montreal Winnipeg

Want in These?

1913 Specials

5th ANNUAL SERIES

- Big Poultry - Feb. 6
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- Dairy Magazine - April 10
- Farm Improvement - June 5
- Exhibition Special - Aug. 28
- Women & Household - Oct. 9
- Breeders & Xmas No. - Dec. 4

BETTER SERVICE THAN EVER FOR YOU



Special reservations covering the series of eight (8) now being made.

Write us to arrange for the space you will want to appeal to our monied Dairy Farmers.

More space than ever this winter. They have it to spend 1913. Arrange to-day to get your share through

FARM & DAIRY, Peterboro, Ont.

Wanted

Some one person in your district whom we can pay well—salary or commission—for getting new subscribers for Farm and Dairy.

Should you be that person and want good paying, interesting, and steady work for the winter, full time or part time—

Write Us Now

This Worm Cost You

And your brother Ontario farmers this year \$900,000.00 Loss!

YOU know as we know of apples that could not be sold because worms. You probably know of an orchard that sorely was worth picking because of the Codling Worm. Then there is the Apple Seab, the Bark Louse, the Tent Caterpillar, the Railroad Worm, the Bud Moth and the Loop, or Canker Worm. These all take largely from your profits and cause you big loss each year unless you spray and spray thoroughly.

We have gotten out a free book telling all about these insects and fungous diseases. This book is called

A GOLD MINE ON YOUR FARM

It will pay you to get this book now and read it when you have time this winter. You can control all pests, both insects and fungous, absolutely by spraying properly with the Spramotor.

You will certainly want the best sprayer when you come to spray your sprays. Rather than have you take our word alone for it that the Spramotor is the outfit for you, we ask you to note the following:

Spramotors were awarded first place at the Canadian Government Spraying Contest at Grimby, Gold Medal at Council Bluffs, Iowa, 1908 and 1909; 1st place at International Exhibition, Glasgow; Gold Medal at Pan American Exposition, Buffalo, N. Y.; Gold Medals at the Toronto, Ottawa, London, Halifax and St. John Exhibitions—Over 100 Gold Medals and First awards have been granted the Spramotor.

Spramotors are made in smallest size at prices as low as \$10 up to our largest Tank and Traction and Gasoline Power Outfits.

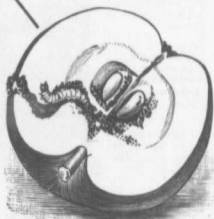
Small Spramotor Outfits suitable for disinfecting and white-washing and painting your stables. It will pay you to buy now and use this winter.

Send to-night for "A Gold Mine on Your Farm," our Free 36-Page Book, which tells you all about how to spray, what to spray, when to spray, and describes the Spramotors. Bound in convenient pocket size—designed to be of great practical value to you. Address us personally.

W. H. HEARD, e/o

SPRAMOTOR CO., 1701 King Street, London, Ont.

Largest Manufacturers of Sprayers and Accessories in the World.



Worm of the Codling Moth

POULTRY AND EGGS

In addition to operating the largest creamery business in Western Ontario, we are among the very largest egg and poultry handlers. We can guarantee thirty cents or better, your station, for strictly new-laid eggs, and are prepared to pay the highest price for poultry, especially crated-for chickens. Write NOW for particulars.

SILVERWOODS, LTD.
Successors to FINEVELL-SILVERWOODS, LTD.
LONDON, ONTARIO
See our Ad. for Cream, page 29

FANCY CHOICE COTTON SEED MEAL

Guaranteed Analysis
Protein (Equivalent to Ammonia 8%) 41 to 45 per cent
Carbohydrates (Sugar and Starch) 10 to 30 ..
Fat or Oil 20 to 30 ..
Fiber 7 to 10 ..
Crude Fiber 4 to 10 ..
\$1.90 per 100 lbs. 30 lbs or more or \$1.75 per 100 lbs. Feeding directions with each bag

OLD PROCESS OIL CAKE MEAL

Protein 30%; Fat 3%; Fibre 10%
\$2 per 100 lbs. 50 lbs or more or \$1.90 per 100
Opener Shell 7 lbs. per 100; First 6 lbs. per 100
Hatchlings' half Meal \$2.00 per 50 lbs. sack
Bibbles' half Meal \$2.00 " 50 "

GEO. KEITH & SONS (Seed Merchants since 1863)
124 King Street East, TORONTO

Creamery Department

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

Powdered Milk for Making Culture

Prof. H. H. Dean, O. A. C., Guelph
At a cream gathering creamery it is frequently difficult to obtain skim-milk, commonly called "starter," to ripen the cream. It has been suggested that the buttermaker, under such conditions, should purchase a quantity of milk powder, which will keep an almost indefinite length of time, if kept dry and free from taints or odors.

Whenever he desires to make a culture, he may use the milk powder as a basis for propagating and making the culture required. The milk powder should be dissolved in pure water, preferably pasteurized water, at the rate of about one pound of milk powder to one gallon of water.

The tests here reported were conducted by Mr. T. H. Lund, an undergraduate of the College, and Mr. Rickwood, our buttermaker. The butter was scored three times by experts. The average of all scorings in favor for the lots made by using ordinary pasteurized skim-milk for making the culture, was 40.8; the lots made from similar cream ripened with a culture made from powdered milk, scored 41.08, very little difference. The two lots made by using ordinary skim-milk cultures lost 5.5 points in flavor, between May 20th and October 7th, while the powdered milk culture lots lost 2.5 points.

So far as these tests show, they indicate that the powdered milk may be used satisfactorily in preparing cultures to ripen cream for buttermaking.

Pennies vs. Dollars

"Butter Boy," Victoria Co., Ont.
There is a 'w' here 'o' of cream being produced in our county this winter that we creamery men are not getting and which, I believe, we should get. We are not getting it because farmers believe that they are money in

-pocket by making the butter at home and selling it either on the market or to our grocers. I believe that the most of these farmers are saving the pennies and losing the dollars.

I called one of these farmers up on the 'phone the other day and asked him if he would give me his cream for the winter. He said that he 'guessed not,' as they could 'make a triffler more by making up the butter at home. And you know, money counts nowadays.' I asked him how long it took him to make the butter (the man did the work in this case), and he replied that it spilled half a day a week. I asked him if he considered his time for half a day worth \$1 a week. He replied that he guessed it should be if common laborers could get \$2 a day. I then asked him how long it took him to take his butter to market, and he told me that it took a whole afternoon. He had previously informed me that he got about 60 cents a week more on the market than he could get from me for a week's cream. I showed him that he was getting 70 cents in cash for \$2 worth of time. He saw the point alright, and I am now getting his cream.

The majority, however, do not come over as easily as did this man. You could put up the same line of argument to them without effect. They do not seem to consider that their time is worth anything at all. There is need for a great big educational campaign in this country that will convince farmers that they, like all other men, must put a money value on their time. It will be good for us who make butter and for the farmer as well.

Fires in Creameries

Several years ago we undertook to ascertain from those insurance companies catering to creameries the predominant causes of fires occurring in the plants taking out policies with them. The chief causes of creamery fires given as sparks from a stack falling on a combustible roof and over-heated woodwork near metal stack or stove pipe and sometimes woodwork too close to bridging from loiler to brick stacks.

There were a number of other causes of fires mentioned, causes which are likely to be met by accident in any inflammable manufacturing plant, but the above-mentioned predominated, and still predominate. It is frequent reports of creamery fires reaching our office. That many a disastrous fire could have been prevented by a relatively small precautionary outlay is a well proven fact.

PREPARE TO FIGHT FIRES
But precautionary measures having to do with the construction of the creamery are not sufficient to safeguard a frame building. There are still many chances of a fire in a non-combustible roof and a well-insulated boiler, stack, heater and ash pit. Fire fighting apparatus should be provided and used in fire drills often enough to keep it in condition and to keep the staff in training and ready for any emergency.

Where public fire apparatus is not available, and often when it is available, it is well to maintain an overhead tank full of water, especially if running water under pressure is not supplied. This tank should be connected by pipe with every room, and plenty of fire hose kept on hand. Steam connections in boiler room are also useful. Where the roof is of combustible material it is well to make every part of it accessible by ladders, walks along gables, etc., and some plants have saved themselves money and worry by placing water barrels which are always kept filled, directly on the roof to meet any emergency.—N. Y. Produce Review.

SAFETY

ACETYLENE AS MADE BY THE "DAVIS"

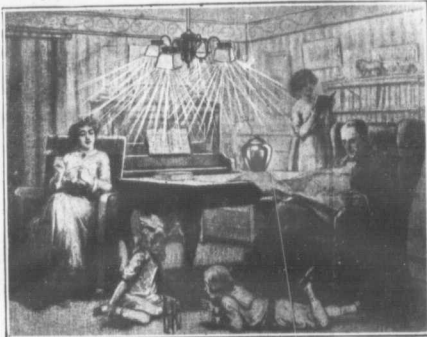
The Wonder Light. No home too small to participate in its benefits.

No building too large to light well and economically.

Safer than City Gas—Brighter than Electricity and cheaper than either.

Always ready to be lighted in every room day or night.

A Cozy Farm Home



COMFORT

No lamps to fill. No Chimneys to clean. No Wick-tinning. No Smoke. No Odor.

A beautiful, soft, health-giving and eye-saving light.

More important to the home than a furnace, because used of the year round.

Booklets telling all about Acetylene and Davis Systems sent free for the asking.

Estimates furnished complete installation.

ECONOMY

Mr. and Mrs. Farmer:

CONVENIENCE

Can you imagine how cheerful and cozy your home would be these long winter evenings if you had a **Davis Lighting System** installed in your home?

Imagine the safety in having no lamps around to be upset by the children. Every room in the house lighted too, better than any city home—no eye strain.

Your barns lighted too, so as to make milking easy and no dangerous lanterns to handle—light without a match, anywhere you want light.

Drop us a card TO-DAY for FREE literature, telling all about this wonderful system of lighting.

Davis Acetylene Co.

NIAGARA FALLS

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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.

An Eastern Dairy Exhibit

Why should not Eastern Ontario cheese makers have an opportunity of exhibiting their products at a dairy exhibit held in connection with the annual convention of the Eastern Ontario Dairymen's Association? Western Ontario makers have their dairy show each year at the annual W. O. D. A. Convention. Some weeks ago Farm and Dairy suggested that such an exhibit be held in connection with the E. O. D. A. Convention, and since then, we have been corresponding with leading cheese makers in both Eastern

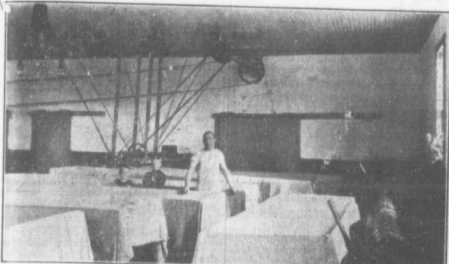
Ontario, that breathes the same spirit as do all of the letters received from Western Ontario men. They are more than pleased from the results attained from their winter dairy exhibit.

Benefits of a Dairy Exhibition

Frank Hearn, Chief Dairy Instructor, Western Ontario

The exhibiting of cheese and butter in connection with the annual convention of the Western Ontario Dairymen's Association affords an opportunity for factorymen to get together and discuss the merits and defects of the dairy products on exhibition. With the goods before them under the "trier" the factorymen can discuss more intelligently the factors that influence the flavor, smooth texture and stylish appearance of the cheese required for the market.

The educational features of such an exhibition are far-reaching. At pro-



A Noted Cheese Maker Right At Home

In our illustration may be seen in his own factory, Mr. E. A. Thompson, of Atwood, Ont. Mr. Thompson has probably a larger list of cheese awards to his credit than any other cheese maker in Canada. For three years at Toronto Exhibition he was the largest winner, thus securing as his own a very valuable trophy offered to any maker who could secure the greatest number of points for three years.

—Photo, courtesy F. A. B. Oberly.

and Western Ontario, and between now and the time of the convention we purpose publishing the opinions of some of our best men.

That "the proof of the pudding is in the eating," is an old truism that applies here. They have had their dairy exhibit in Western Ontario for many years now, and have had every opportunity to test its usefulness. On this page we publish a letter received from Mr. Frank Hearn, Chief Dairy

sent the Western Exhibition is the only one in the province where the cheese and butter makers have an opportunity of examining the products. They learn valuable lessons from the judges' decisions and see for themselves the reasons for placing the different awards.

Our exhibition gives an object-lesson in connection with the proper finishing of dairy products, pointing out in no uncertain way the importance of an attractive appearance of dairy goods that are to be presented to the buying public. It is well known that this exhibition has materially assisted in improving the finish of cheese in Western Ontario.

THE YOUNG FELLOWS' BENEFIT

It affords an excellent object-lesson to young makers as they can readily see that when the time comes for them to take charge of factories they will be expected to put up their products to their best efforts to excel. It brings before the dairy public illustrations of what other makers are doing and the standard of quality is raised a little each year. It is therefore forcibly pointed out that better methods must be followed each year.

Many makers have little opportunity of observing what other makers are doing, not having time to visit neighboring factories during the manufacturing season. At our exhibition, however, they can compare methods and although they may not be exhibitors they can see by observing the best products what is expected in the way of fine quality and stylish finish.

GOVERNMENT EXPERT

Chooses SHARPLES Tubular Cream Separators for His Three Farms



Like other shrewd farmers, Mr. Anson Groh, widely known agricultural lecturer employed by the Government, knows the money to be made in dairying. He has succeeded because he knows profit is of far greater importance than first cost. Mr. Groh is seen sitting in this picture, with his family and assistants, before his country home. Like others making most money from dairying, Mr. Groh selected the Tubular in preference to all others because the Dairy Tubular contains no disks or other contraptions, has twice the skimming force of other separators, skims faster and twice as clean, and pays a profit no other can pay. Mr. Groh says:

"Preston, Ontario, May 28, 1912.—Some years ago we selected the Sharples Tubular. After a few years' use we found it necessary to get another separator for another farm and selected a No. 6. After several years' service of these two machines, we would not think of introducing anything else on our three farms, recently purchased. ANSON GROH."

Now you understand why owners of other separators are discarding their machines by cartloads for Tubulars. Follow the example of Mr. Groh and the many others who have succeeded. Buy a Tubular for the sake of double skimming force, easy cleaning, and all the profits.

Get quick attention by asking for Catalog 253

The Sharples Separator Co. Toronto, Ont. Winnipeg, Man.

LEG BANDS FOR POULTRY

We carry in stock all styles (ask for our Poultry List). The most popular leg band is the "Leader Adjustable," easy to cut, made of aluminum. Two sizes.

No. 1.	For birds legs 1 1/2 to 3 1/2 in. in circumference	No. 2.	"	"	"	"	"
Pack	12 for 15 cents	Numbered 12	25	25	25	25	25
Patd	50 "	40 "	1 "	50 "	1 "	50 "	1 "
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Geo. Keith & Sons, Seed Merchants since 1860
124 King Street, East, Toronto, Ontario

BANKRUPT BELTING BARGAINS

Positively 75 to 15 per cent. saved—New and Second-hand, all kinds and sizes for every purpose. Also enormous stocks of Iron Piping, Pulleys, Shafting, Hangers, new and Reeling Rails, Saws, Chains and Cables, Roofing, etc. Write us for prices and tell us what you need. Catalogue on request.

THE IMPERIAL WASTE & METAL CO.
65 Queen Street, Montreal

BUTTER! BUTTER!! BUTTER!!!

Why make butter during the winter months when you can ship your cream weekly, and get the highest market price? If within one hundred miles of London we can guarantee you, for your butter-fat for November, 50¢ per pound. For F.O.B. your nearest export office, and supply cases for shipment (6, 8 or 10 gallon) to suit your requirements. We render immediately each shipment is tested. A post-order will bring a can (specify size suitable) and enable you to give this system a fair trial.

SILVERWOODS, LTD.
Successors to Fyfe-Silverwoods, Ltd.
LONDON, ONTARIO
See our Ad. for Eggs and Poultry page 28



BE WISE THIS YEAR AND INSTALL A "CHAMPION" IN YOUR SUGAR BUSH

You've gone on long enough using old-fashioned, expensive methods in your maple grove. It's time for you to sit up and take notice of the fact that you can increase your profits from this part of your business to a greater extent than you ever dream of.

The "CHAMPION" Evaporator is the greatest time and money saver a man can put in his sugar cabin.

Do not delay any longer. Now is the time to give your Maple Syrup business consideration. Write us today for our new illustrated catalogue form.

The Grimig Mfg. Co. Ltd.
85 Wellington St., Montreal



A Contented Cow A Profitable Cow

ARE your cows contented? Are they profitable? If not, make them so by doing away with your old-time wooden stalls. They gather dirt, harbour disease germs, and prevent the free circulation of life-giving air and sunlight.

LOUDEN'S Tubular Steel Stalls Equipment is easily and quickly installed and insures cleanliness and ventilation. Its use means comfort for your cows and profits for you.

GET INTERESTED. WRITE TO-DAY.

(Our best "Perfect Barn Equipments," and the service of our architectural department, are free.)

THE LOUDEN MACHINERY CO.
Dep. 62 - GUELPH, Ont.

See Open Top Tub Room to Work

See How the Wringer is Attached

MAXWELL'S HIGH SPEED CHAMPION

The Wringer based stands from the side, out of the way of the cows. This allows practically the whole top of the tub to open—makes it easy to put in and take out clothes.

Its roller holder has as large an opening as other similar ones are worked with crank handles of side as well as top levers.

Do you use Maxwell's "Favorite" and know that makes quality better?

Write us for catalogue if your dealer does not handle them.

1470 MAXWELL & SONS, ST. MARYS, Ont.



MAY every Christmas raise us up nearer to the
poise and peace of them that are good and
great.—Frank Crane.

A Christmas Awakening

By Mrs. O. T. Winn.

IT WAS the night of December 23, 1886. Farmer Dodd, with his tired wife sat at their kitchen fireside in their little cabin home, near a small settlement in one of the Middle-Western states.

They had managed, by many sacrifices and hard saving, to lay by a small sum, in the little mining town in the east where they had lived, which they thought sufficient, by practicing strict economy, to carry them along until they could harvest a crop, and had made this venture to procure a homestead, when this tract of government land had opened up for settlement.

But the struggle was hard. With their six small children, they had to be very economical, indeed, to keep from drawing too heavily upon their small savings.

This winter evening they sat by their fire, she busily engaged at some knitting; he, smoking a corn-cob pipe and enjoying his weekly paper. The children had long since been tucked away in their small bed-room adjoining the kitchen.

At length she gave a tired sigh and held up the half-finished mitten, and gazed at it ruefully. Her husband arose from his chair, yawning, and said:

"Well, wife, it's half-past nine o'clock, and time we were going to bed. What are you working at so hard, anyway?"

"Oh, I've tried so hard to finish this pair of mittens for Harold, for Christmas, and this is the last chance I'll have to work on them; and I'm afraid I won't get them done, after all." Then she began plying her needles more energetically than ever, and continued, "Besides I have tried and tried to figure out something for little Tim, but can't for the life of me. If I had had time, I could have knitted him some mittens, too, and he needs them bad enough, but I just couldn't. I thought, as he is older, he wouldn't mind so much, and he is so unselfish he won't feel so badly if Santa Claus doesn't slight his little brothers and sisters altogether. Bless his dear little heart. With all my work I have so little to give them, poor little things. Here she broke off, and the tears she had so bravely held back until now trickled down her pale cheeks.

It was unusual for her to cry, and her husband, being a man, did not know what to do, of course, and so he knocked the ash out of his pipe uneasily, whereupon his wife raised her head and looked at him sharply and her voice quavered with pained indignation, as she burst forth:

"You burn the money we ought to spend on our poor children! What goes up in tobacco smoke in one year from your pipe, would give them such a Christmas as they have never seen, and make them so happy!"

It was the first time she had ever spoken to her husband so harshly, and

she regretted it the next moment although her heart ached with the bitter consciousness that it was all too true.

"But there are so many men who are so much worse," she said to herself, in justice to her husband. As for him, he opened his eyes wide in astonishment for a minute, then said, resentfully: "Well it's all the pleasure I have!" and turned and stalked away to bed.

As soon as he was alone, however, the thought occurred to him: "But what pleasure does Mary have? None, but the children, and that is bitter-sweet when she can give them but the bare necessities of life, and hardly that," came the answer from his innermost conscience.

And as he lay there awake, while his wife still sat and knitted, her words kept repeating themselves to him, and his conscience stung him as he admitted to himself, there was a

great deal of logic in what she said. "I do burn up quite a little sum every year, which she could as well have for them, and which I always thought I couldn't spare at Christmas time. It seemed so small spending it a little at a time as I do, I never thought of it in that way."

And then he remembered that tobacco was very offensive to his wife, too; in their courtship days he had always abstained from smoking in her presence for that reason. Since their marriage he had fallen into the habit of smoking when and where he pleased, and as she never complained, he had almost forgotten that it caused her annoyances and discomfort.

She had, indeed, often tried to persuade him to leave off the degrading habit, but she had always pleaded, "for your own sake, dear."

He thought of how gentle she had always been, and how hard she had worked to make the poor little presents for the children, at the sacrifice of many an hour's restful sleep, after the babies were in bed. Then he had a vision of poor little Tim, getting his sole Christmas joy out of seeing the smaller ones with their gifts, and he said to himself, remorsefully:

"What a selfish brute I am! No wonder Mary lost patience with me! But next year, I'll try to do better!"

And he fell asleep. The next morning, the same thoughts kept pursuing him as he did his chores; and at breakfast, whenever his eyes rested on the tired face of his wife, with her pale cheeks and hollow, dark-ringed eyes; and he noticed how weary her steps were as she hurried the children off to school.

After she had put the baby to sleep, and had given the little four-year-old, Jack, a string of spools with which to

amuse himself, she went to the kitchen to finish her Christmas preparations by making home-made candy and various gingerbread animals for the children.

That afternoon, the children trooped home from school an hour earlier than usual, in high glee, all chatting about Santa Claus and the holiday coming.

Around the supper table that evening, they talked of nothing else, each speculating on what Santa Claus would bring, and each named some one thing more precious than any other, for which his wish had been ready to hang. Tim, the eldest, spoke up: "But mamma says Santa Claus is very poor this year, he has had so many children to provide for, so we mustn't expect too much!" after which their joyous expectations were somewhat modified.

Of course, Mr. Dodd heard it all, and every word gave his conscience a fresh stab, until, by the time the meal was over, his heart was swelling with remorse—and a new purpose.

He told the children they must go to bed early, so as not to keep old Santa waiting, as he had many calls to make, and at half-past seven they all went into their little room to hang up their stockings, with half fearful, half expectant little faces, and went to bed.

As soon as they were safely asleep, Mr. Dodd said: "Mary, get out your things now—and let's see what we have!" and she brought forth from her hiding places the fruits of her patient labor. Two rag dolls, homemade but neatly dressed, the mittens, a stuffed horse, a couple of tops made of spools and painted red, and some little knitted stockings.

"The dolls are for Helen and May, the horse and one of the tops for Jack, the mittens and the other for Harold, and the stockings, of course, are for Baby. But—poor little Tim! I couldn't find that he wanted a thing but a book; he needs an arithmetic so badly at school, and he does, as you so to borrow. But, of course, I didn't have the money to get that," and here the tears again came up into her eyes.

"Never mind, dear, he shall have his book!" said Mr. Dodd, putting his arm around his wife and drawing her close: "for I'm going to town this very night and get it for him. I've been a selfish brute, but, please God, I'm going to be a man hereafter. No money will go up in smoke from my pipe, leaving Santa Claus too poor to visit our babies; and I intend to spend the whole sum of what I would have spent that way, which would have done more than wasted, to give our little ones a happy Christmas. Don't cry, dear," he said, as her head sank on his bosom, and her own weaved.

"I'm so happy, John, dear; and so proud of you!"

He pressed her closer, then arose saying briskly: "Now, I must be getting, or I'll be too late to get the things." And after a few minutes' planning on what would be best for the children, he departed, leaving her sitting happily by the fire to await his return.

The next morning—what a scene! Tim was over-joyed with his new book and a nice warm pair of gloves. Harold was happy with a rubber ball, the girls each had a nice warm hood. Jack a picture book, and the baby rattles, besides their mother's gifts and apples, nuts and candy for all.

And when mother went into the kitchen, she gave a happy cry of surprise, for there, upon the table lay a big, fat turkey and cranberries. What a Christmas they did have!

Mrs. Dodd's mind swelled with happiness and pride, as she looked at her husband, and she felt that she had not been quite so happy since the old days, when they were sweethearts. And so

(Concluded on page 34.)



One of the Pleasures of a Canadian Winter

People of more southerly climes may shudder as they speak of Canada as the land of ice and snow. But they do not know of the pleasures of the Canadian winter of ice and snow. Who doesn't enjoy skating, that more than counterbalance any of its discomforts? And what could be more enjoyable than a drive through country roads on a clear, cold, winter day, with the bells ringing and all the world glistening in the purest white? The young lady in our illustration, Miss Florence Ballows, of Huron Co., Ont., is enjoying a pleasure the like of which our southern friends never experience.

Vincent's Health Hints

The Importance of Fresh Air

It sometimes seems when we are passing along through the country that most of the folks live in the back part of the house. You know what I mean. We find the doors all shut tight on the side next to the road, the curtains pulled down and the windows perhaps doubly secured with blinds. If we did not see a washing out on the line or some stir in the kitchen we might doubt if anybody lived there at all.

And the same sort of a thing goes on at night. I know, because I have been right there myself. Not one farmer out of a dozen ever thinks of showing up the window at night while he is asleep. Down the windows come and down the curtains are pulled as soon as it is bedtime. I don't

"The first duty of a doctor was believed at one time to be the making of sick people well. We now have a new work for doctors—to keep people well. In this every one of us must be active cooperators. There are two great disease cooperatives, moderate eating and fresh air. A few weeks ago in Farm and Dairy we gave a series of talks on eating by E. L. Vincent. In a recent article in Successful Farming, Mr. Vincent has given us his ideas on the second preventative, fresh air. For the benefit of our readers we are going to reproduce this article in Farm and Dairy, the first instalment appearing in this issue-Editor.

know why this is, unless men are brought up to it; but is it any wonder that so many of the farmer folks have catarrh, coughs and lung trouble? The wonder is that more are not afflicted that way. Of all the children I know, farmer boys and girls are most subject to colds and sore throats.

MANY THINGS MAKE FOR HEALTH. This shows that eating is not the only thing we need to think about when we talk about health on the farm. There is such a thing as running diet into the ground. I hope we will not do that in the discussion of the matters that go to make us healthy and happy. There are a good many things aside from the food we eat that go into the consideration of good health. And have we not struck one of them in this thing of fresh air for the home, night and day?

I know the women folks will say, "You will spoil the carpet if you let the sunshine into the parlor. We have to make our carpets go as far as we can or you men folks will find fault with us when it wears out and you must lay a new carpet." And there is a lot of truth in that; but I, a good many years ago, came to the conclusion that a faded carpet is not half as bad as a faded rose on the cheek of some one we love as we do our very lives. Let the carpets go. They are made for wear; but save us our waxes and little folks! Better ten times kick and squirm over money for a new carpet and parlor furniture than over a big bill of the doctor's or perhaps the undertaker's.

The Dignity of Clothes

E. F. Eaton, Colchester Co., Ont.

Hayseed, patched overalls and a ragged coat, used to form the essential part of the average city man's idea of a farmer. There was something to give them this impression too. We farmers as a class are inclined to be too careful of tailors' bills.

There is, however, such a thing as carrying the matter of dress too far. A few days ago I saw a farmer delivering hay in our nearest town, with a long tailed coat on and he certainly did look ridiculous. That man was ashamed of his calling. He was ashamed to be taken for a farmer. He would like to have been mistaken for Dr. So and So, Lawyer Blank, or even for a minister. Anything but a farmer.

The same day I noticed another farmer delivering hay (a near neighbor of mine) and his clothes were one mass of patches. I knew that he could afford better. A tramp on the street could beg something better. He was not ashamed of his calling but he was ashamed of himself. He realized that he did not look respectable beside the dealer to whom he was selling his hay and he could not look the business man in the eye with the confidence that he was just as good as the other fellow.

Clothes have a wonderful effect in giving us a sense of dignity and the ability to meet the other man on the same basis. The habit of dress that

we should strive for lies somewhere between the two cases that I have indicated. I would dress according to my work. When I go to town to deliver hay I would be neat but not foppish. When I go to town in my rubber-tired buggy to do business or for pleasure I would dress just as well as would the business man whom I would meet in town. Tailors' bills are a good investment in that the added sense of dignity that good clothes give us enables us to meet our fellow men with the greater confidence.

Pretty Boxes of Candy

Any of the following pretty hand-made Loxes, filled with home-made candy would make a pleasing Christmas gift:

Make a butterfly box of white cardboard with green lettering. The butterflies are formed of yellow crepe paper, tinted with a variety of colors. A pretty oblong box can be made with light green cardboard with the lettering in green and red. Red ribbon bows hold a spray of holly. Trim the edges inside with paper lace. Another box can be made trimmed with mistletoe for home-made creams. Narrow ribbon strips are fastened inside the lid with paste, and a spray of mistletoe is neatly sewed on so that the trimming remains in place when the box is opened.

Add a little boiling water to an omelet to keep it from being tough.



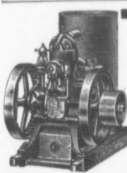
**"Uniformity is a big word, Bud."
"I 'spect it's because it means a lot, Rose."**

Steady—Regular—Dependable Quality, there's the FIVE ROSES idea.
No bad dreams bakeday eyes — the morning batch "flat" instead of "up."
So very exasperating, you know, to get less loaves this week than last from the same quantities.
FIVE ROSES is the sure flour — reliable, you see.
No wrinking worries over bread, or cakes, or pies, or anything.
Bake things always up to the mark of your happy expectations.
Disappointment—never.
Four times Uniform—Strength, Color, Flavor, too, and Yield.
FIVE ROSES—trouble-proof flour.
Use FIVE ROSES always.

Five Roses Flour

Not Bleached Not Blended





This Engine Runs on Coal Oil

Every farmer can afford an Ellis Coal Oil Engine. They give far more power from coal oil than other engines do from gasoline. They are safe, as well as cheap, no danger of explosion or fire.

The strongest and simplest farm engine made; only three moving parts; nothing to get out of repair. Anyone can run it without experience. Thousands of satisfied customers use these engines to grind feed, fill silos, saw wood, pump, thresh, run cream separators, and dozens of other jobs. Cheaper than horses or hired men. Fill up the tanks and start it running, and no further attention is necessary; it will run till you stop it.

FREE TRIAL FOR 30 DAYS. You don't have to take our word for it. We'll send an engine anywhere in Canada on "Thirty Days' Free Trial." We furnish full instructions for testing on your work. If it does not suit you send it back at our expense. We pay freight and duty to get it to you and we'll pay to get it back if you don't want it.

Absolutely guaranteed for 18 years. Write for free catalog and opinions of satisfied users. Special offer in new territory.

5 to 15 horse-power
We pay Duty and Freight
Ellis Engine Co., 90 Mullett Street, DETROIT, MICH.

NEW COAL OIL LIGHT



Beats Electric or Gasoline

ONE FREE To Use On Your Old Lamp!

Our special introductory offer entitles one person in each locality to one free, Powerful white incandescent mantle light. Replacing common oil lamps everywhere. Burns 70 hours on one gallon of coal oil. Expensive unnecessary. No odor or noise, simple, clean, brightest. **AGENTS** Make Money Everywhere and cheapest light for the home, office or store. **WANTED** Make Money Everywhere. Better light than gas or electric. Send postal for **FREE OFFER** and agents' wholesale prices. **MANTLE LAMP CO., 253 Aladdin Bldg., Montreal and Winnipeg, Can.**

New Comforts for Farm Homes

During the past five years the editors of Farm and Dairy have from time to time visited at many farm homes in Ontario and Quebec, and have always had an eye open to note the comforts and especially those comforts and conveniences not in general use and which we might describe and pass on for the benefit of our people who read Farm and Dairy. In connection with our Good Farms Competitions, we have noted many things coming under the classification we have in mind, but of



Christmas Cheer

What would Christmas be without a Christmas dinner? The young folks start to look forward to Christmas festivities months in advance. The older folks don't show so much enthusiasm, but they enjoy it too. The Christmas dinner is almost as much of an institution in Anglo-Saxon countries as is the day itself. Here is an illustration that proves that in the Norfolk County home the Christmas dinner is still a feature.

—Photo, courtesy Wm. Thorn, Norfolk Co.



King Edward Vacuum Cleaner

It collects dust, not scatters it. No dirt or dust can resist the powerful suction of the double pneumatics. Easiest of all to operate—far less tiring than sweeping with a broom.

Save \$4.

by asking for a King Edward Vacuum Cleaner on 10 DAYS' FREE TRIAL, before Jan. 1st. The complete outfit, if you keep it, is only \$16. If your request comes in after Jan. 1st the price is \$20. Write today—send no money—save \$4.

The Geo. H. King Co. Ltd., Woodstock, Ont.

YOUNG MEN WANTED to see **VETERINARY profession.** Course free. Grand Rapids Veterinary College, Den. 16, Grand Rapids, Mich.

Farm Help

Should you desire a reliable man for next year it will be well for you to get your application in early to the

Salvation Army IMMIGRATION AND COLONIZATION Department

We are making a special effort in outlying and country districts in the old country this year, and will have a good selection of reliable farm help.

Experienced and Otherwise

For several years now we have been bringing out Farm Laborers, and Boys Also Domestic. We choose the better class and desire good places for our immigrants.

For best satisfaction get your application in early.

Application forms may be had from,

THE SALVATION ARMY Immigration Department
Albert St., TORONTO, ONT.

A crackerjack of a Christmas present



REMEMBER when you were a kid?—the presents that were all shiny and bright and that worked?—weren't they the ones that you were proudest of?

Something for your room—something you could use all year—something like big people had in their rooms. Didn't sensible presents appeal to you best when you were a kid? Think back a bit and see.

Then think of Big Ben for those boys and girls.—Toys, of course, should never be displaced. It wouldn't be Christmas without them, but mix in useful things—things that develop pride and make little people feel responsible. Give them presents to live up to and to live up with. Don't make the mistake of thinking they don't feel the compliment.—Let one of the first things that greets your little boy and girl Christmas morning be that triple nickel-plated, handsome, pleasant-looking, serviceable and inspiring clock-alarm—BIG BEN.

Just watch if they don't say, "Isn't that a crackerjack! Why! is that for me to use myself?"—Then see how proudly they carry Big Ben upstairs to "show him the folks in my room."—Just put your self in that boy's or girl's place.

Big Ben is a crackerjack-of-a-Christmas-present to give to a boy or girl. The fact is, he is two presents in one, a dandy clock to wake up with, a dandy clock to tell time off day by. And he's as good to look at as he's pleasing to hear.

He stands seven inches tall, slender, handsome, massive, with a big, frank, honest face and big, strong, clean-cut hands you can see at a glance in the dim morning light without even having to get out of bed.

He's got an inner vest of steel that insures him for life; large comb keys that almost wind themselves, and a deep, jolly ring that calls just when you want and either way you want, five straight minutes or every other half minute for ten minutes, unless you flag him off.

Big Ben is sold by 15,000 watch-makers, if you can't find him at your jeweler's, a money order mailed to his designers, *Waltham, La Salle, Illinois*, will send him where, and wherever you say, attractively boxed and express charges paid.

\$3.00

At Canadian Dealers.

these fixt to a water system and a modern plumbing equipment, we have always been interested in systems of lighting, which would give people in farm homes something approximately as good or better than the gas and electricity, which people have in cities.

Acetylene gas has always been very highly spoken of by those people we have visited who have it in their homes. Having seen this lighting system in a goodly many of the better class of farm homes we have had our interest drawn repeatedly to acetylene. Recently, while in Toronto, one of the editors of Farm and Dairy, who is thinking of having a lighting system installed at his farm home, was given a demonstration of the Davis Acetylene machine. The demonstration was made right in one of the rooms at the Walker House. The gas was manufactured in a miniature plant, and the light it gave quite put the electric light in the shade. We were quite surprised at the brilliancy of the acetylene light compared with electric light. We were furthermore astonished to find that in spite of its brilliancy one could look right into the flame without inconvenience to the eyes.

The light appealed to us as being a very nice thing to have in any farm home where all of the comforts are desired. The cost, too, is not so much as one would think, and this system of lighting is quite within the reach of progressive dairy farmers.



The Night Before Christmas

"Wake up," cried the one-legged China Doll, shaking the old Tin Engine till his insides rattled. "Wake up, or I'll knock your smoke-stack off. Don't you know this is the most awful night in all the year?"

"Eh?" said the Tin Engine, sleepily. "What night do you say?"

"Why, Christmas Eve, of course,"



Boys Like to Own Live Stock

Our young friend in the illustration, Norman Peters, is a Peterboro boy, who for the past year has been working on the Brant Co. farm of H. E. Nixon & Sons, his position being secured for him by an editor of Farm and Dairy. The deep interest he takes in those rabbits, which are his own, shows clearly how the boy nature craves live stock to own and care for. Possibly no other one thing will be more to develop the boy's interest in the farm, than to be given for their very own, and to care for, some live stock.

—Photo by an editor of Farm and Dairy.

screamed the China Doll. "Tonight a dreadful old fellow, called Santa Claus, is coming down the chimney, and is going to bring a fine wax doll, with real curls, and clothes that come off and on, and goodness knows what else, and nobody will ever notice us again."

"Who told you that?" said the Tin Engine.

"Why, anyone with ears could hear that child, Elsie, talking about it fer the last week. And Santa Claus is to



"Oh Yes, Quite Safe Thank You"

It would be a bold man who would attempt to interfere with our little friend, Edward Watson, of Huron Co., Ont. His big canine friend would put up a pretty good fight, we imagine, for his young owner. How many of our young folks have as fine a playmate as has Edward?

Bring a fire reel for Bob, and then where will you be?"

"It will be a reel for me, if Bob has something else to knock about for a change," sighed the Tin Engine.

"You have no spirit," cried the China Doll, waving her arm, and showering sawdust on the floor. "I can tell you I shan't stand tamely by and see some stuck-up wax doll take my place."

"You can't, because you have only one leg," murmured the Tin Engine, but, luckily, the China Doll did not hear him, and she went on getting more and more angry.

"I intend to stop that Santa Claus man, and put an end to his interference. I shall put a knife in his heart, or put some poison in his tea. He

shall not set his foot on this roof to-night. It is time some bold step should be taken. Let us go out and lay wait for him!"

"Oh, say," said the Tin Engine, yawning. "Let a fellow go to sleep. You've had your turn, let the wax doll have her fun while she lasts. She'll soon peel off."

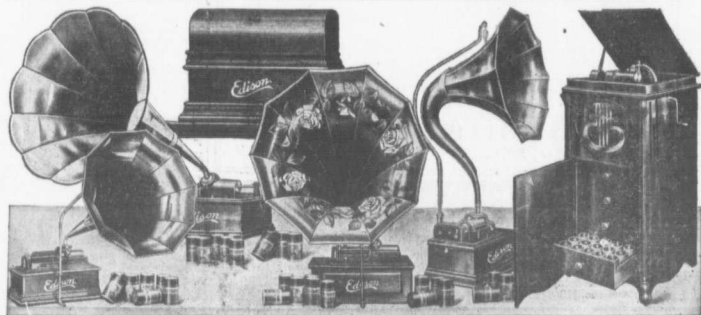
"Coward," screamed the China Doll. "I will go alone, and you shall be left in your dark corner in the cupboard!"

"I don't care," said the Tin Engine, and he went to sleep again.

And the China Doll started off to murder Santa Claus. But she fell in trying to hop over the fender and broke her head, so Santa Claus got down the chimney after all.

If you grease the inner rim of a kettle its contents will never boil over.

If a little sweet milk is rubbed over the tops of rolls or loaves of bread (just enough to moisten them) before they are placed in the oven, the crusts will be a rich brown and much softer.



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OUR HOME CLUB

The Joys of Christmastide

We find the Christmas spirit breathing in the air everywhere; papers, magazines, advertisements and the dear home letters all remind us Christmas is only three or four weeks distant. How our hearts stir with genuine pleasure at the thought of greeting friends, meeting relatives and loved ones, and presenting gifts.

Much has been written regarding the early buying of Christmas gifts. To me, the real pleasure of the Christmastide is in the preparation of gifts of dishes and of gatherings. One year I bought the majority of my gifts in August and September and lost much of the real holiday joy. I was able to go around and view the beautiful things, but I did not need to spend my money on them. On going home and comparing my gifts with those for sale, mine did not reach the high-water mark I thought they should, and thus lost much of the real heart joy of my Christmas. I never "prepared early" in the year again. I expect December 24th though, will find your humble servant busy purchasing a few last gifts, not for some person almost forgotten, but for some I deeply love, and have not been able to decide what is good enough for them.

There are a couple of hints that I would like to throw out here; hints I would like my friends to take. Do not abbreviate the beautiful word "Christmas," in all its Christ-like attitudes. So many in the usual hurry we Canadians are fast achieving, write the "X" before the last syllable. It grates on some persons with sensitive natures when they notice it. Then always write the little message and the

name yourself. It is so much more personal and carries greater love than when written by another hand—another sign of hurry. "Mother."

A Christmas Awakening

(Continued from page 80.)
felt in her heart that the very best Christmas gift given them all was a clean, unselfish husband and father, of whom they could all be proud, and

The Spirit of Christmas

BACK, little care, to the shadows;
Back, little grief, to the gloom;
Back, little heartache, the meadows
Are smiling with memories of bloom.
Back, little burdens and sorrows;
Forward, young laughter and glee;
To-day in life's splendor that borrows
Love's light from the green Christ-
mas tree.

who would henceforth be a shining example for the children to follow.

The husband and wife, as they went to bed that night in their shabby little room, happy, and fully appreciating each other, felt in their hearts that precious gift of God's love. "Peace on earth, good will toward all men!"

If you find the oven too hot and your cake commencing to burn, set a pan of cold water in the oven.

Stuff wet shoes with oats or paper, and rub the outside with sweet-oil to prevent stiffening of the leather.

As a substitute for hot-water bags, use common flannel bags made in convenient sizes, with drawstrings. Fill them with hot sand or salt; keep a half-dozen ready.

Farm and Dairy Christmas Offer

The Announcement Card We Send

For Xmas Gifts

(Only one may be renewal)

3 SUBSCRIPTIONS \$2

5 SUBSCRIPTIONS \$3

Less Than Postage

It is cheaper to subscribe for your friend with this offer than to pay postage for sending your own copies to him. Your postage on the eight special magazine numbers and regular weekly copies would be 60c.

Order Early

At Christmas time entering of orders and all mails are delayed, so order early to make sure that your friends will receive their Xmas numbers and announcement cards on Christmas morning. Promptness on your part will ensure great value to the gift.



A Winter's Sunset

A small reproduction of a beautiful painting. The golden sunset clouds form a magnificent background for the blue tints in the snow and the greens and browns of trees and bushes.

Greetings for Christmas Morning

This attractive Christmas card in full colors is mailed to arrive on Christmas morning to announce that Farm and Dairy is a gift from you. In addition, the beautiful Christmas Magazine Number will be sent free to arrive on the same day.

They will be a splendid addition to the good cheer which "postie" brings to your friends on that joyous day.

The Best Xmas Gift

Send Farm and Dairy to your friends and they will thank you for opening their eyes to what progressive methods can accomplish.

For the dairy farmer the most useful gift is a year's subscription to Farm and Dairy. It is the one paper which devotes its entire effort to the assisting and interesting the farmer with a dairy.

It convinces them as nothing else can that progressive methods bring success. It proves this by the experience of hundreds of the most successful dairy farmers in Canada. It has taught to thousands the lesson that better cows, better feeding and improved lands are investments necessary to success.

A Weekly Reminder

Every week during the year Farm and Dairy will recall to your friends your thought for them. Your mutual interest in the paper will bring you closer together.

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Our Home

"Sunbeam," Leeds Co., Ont.
Home is an Anglo-Saxon word meaning cover, shelter, place of abode.
How many of us fully realize the meaning of this word of four letters by which so much is implied? Home, no matter how humble, is the dearest place on earth, bound to us by ties most sacred—our secret society, as it were, where none save our own dare intrude. What a blessed privilege to enjoy day by day the happiness of home, and in the evening of life, when we are resting on our oars, how sweet to have pleasant memories of the past. Sweet is the smile of home, the mutual look.
When hearts are of each other sure, Sweet all the joys that crowd the household nook,
The haunt of all affections pure "We love to travel; to see other scenes. Change is the spice of life.

us begin by establishing a perfect system and abide by it. Have a place for everything and keep everything in its place. Let us do our work in season. Instead of washing the latter part of the week and possibly ironing the following week, let us try, unless something unexpected happens, to wash on Monday and iron as soon as possible. Keep a well-filled larder, prepare proper meals and serve them daintily. In all our work let us bear in mind that "cleanliness is next to godliness." Be thorough, and when work is finished take particular care not to undo it. So much unnecessary work is made by carelessness. It seems to me the old adage, a ounce of prevention is worth a pound of cure, will apply to this branch of work as well as any other.
Let us not make our household work a drudgery. Let our aim be to reach the top of the ladder. Let us aim at perfection, to be one in a thousand;



Off for a "Joy-Ride" with the Women's Institute

The automobile and the rubber-tired buggy come in very well in their place but for a jolly good time there is nothing like a big crowd in the hay cart. Many who have had experience can testify. This group are enjoying themselves just as many of the rest of us have done under similar circumstances. With the exception of the driver, they are all members of the Women's Institute of Allaw, Victoria Co., Ont., on their way to the home of Mrs. A. Moody for an outing.

But after our holiday how pleased we are to return to our own fireside. Our chief aim in life, and in home-making, should be to look after the spiritual welfare of the home members. There is the temporal welfare, however, and it is on the latter I wish chiefly to dwell here.

UNHAPPINESS AND WHY

In the majority of our homes the housekeeping is so deficient that the inmates never enjoy the comforts of home. The result is unhappiness. We know a great deal of unhappiness is caused by that curse of our land—drink. Or there may be religious strife. But how often the trouble lies with the wife and mother, who in reality is the home-maker. No matter how tidy and industrious the man may be he needs must have a helpmeet in every sense of the word to make an ideal home. In too many cases, we fear, the woman fails because she does not know the first rudiments of the art of housekeeping, and therefore cannot make home attractive or habitable. When one considers the conditions in which some homes are kept, we cannot wholly blame the men for going elsewhere for amusement, and perhaps drowning their sad memories in the friendly glass. Their homes are kept in such disorder and confusion, with poor ventilation and food improperly prepared, that there is no cheer about the house, no home comforts.

MAKE LABOR SHOW GOOD RESULTS

There is, without doubt, much hard labor associated with housework, especially if one does not help; but it is just as easy to do work properly as improperly. "Whatever is worth doing at all is worth doing well." Let

not one of a thousand. If we would all earnestly endeavor to attain those results that a vast improvement there would be in so many of our homes. We should give to our homes the best we have and the best will come back to us. We will be amply repaid by that feeling of happiness and contentment, the satisfaction of duty fulfilled, for what will produce more joy than a well-ordered house with good, healthful surroundings. Our homes need not necessarily be grand. We do not need wealth. The humblest cottage can be made as home-like, as cheerful and as comfortable as the grandest mansion.

And finally let us not think the time lost that is spent in recreation. We all need rest and change. We shall work the letter for a change. "There is a time for all things, a time to work and a time to play."

It takes less cream to serve whipped cream on a dessert than to use the plain cream at the table.

Newspapers laid upon the floor before an open grate when taking out the ashes will save carpets considerably, and one lighted when shaking down a grate will carry the dust up the chimney.

To swallow a dozen of castor oil heat a cup by pouring boiling water into it. As soon as the cup is thoroughly heated, pour the water out and immediately put into the hot cup your dose of oil. You can then swallow it as you do a raw egg, and with as little inconvenience.

Good Sheer WARM AIR FURNACES

THE SECRET OF THEIR POPULARITY

THE HEALTH OF THE HOUSEHOLD DEPENDS ON IT

NO. 3

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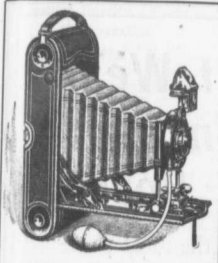
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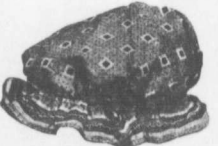
Pretty Things for Christmas

A gift made by the fingers of a friend is always more appreciated than a costly one that has been purchased. We give below several suggestions of pretty, inexpensive articles that any one can make at home.



The Handkerchief Apron

The apron, cap and sleevelets illustrated are made from two handkerchiefs. There are 20 inches square. A rose colored handkerchief with figures and border of light green are very dainty. Of the centre of one handkerchief shape your apron taking across one end for the bottom of the ruffle. From the opposite end cut inside the corners, the border for the band. The pocket and strings fall off the other pieces. Follow the apron out a little at the front and after sewing on the ruffle gather to the band.



Simple Dusting Cap

For the cap cut a paper pattern, round, measuring 18 inches across. Lay your pattern well to a corner, allowing one inch above the border and one. The smaller portion of the remaining border should measure about three inches, using this as the width of the ruffle, cut to the next corner. Instead of cutting through the border round off at the corner, and continue cutting 18 inches up the side. From the starting point cut 18 inches up that side. You now have a border the entire length of one side including two corners and 18 inches beyond each



Sleeve Protectors

corner. This forms the ruffle for the cap. Shir the cap and attach the ruffle, having the corner points fall on each side of the face, and the seam at the centre back. The corners may be left drooping, or caught with a

few stitches if preferred. Between the cap and ruffle run a narrow elastic.

With the remaining two corners cut your sleevelets. Have the corner for the top point, make them as long and wide as your material will allow. Of the pieces left form the pocket and letts with white muslin and either finish with small buttons and button-holes or with elastic.

The stocking bag illustrated is made of one handkerchief and a set of oval embroidery hoops. Wrap these tightly with skirt braid to match the predominate shade of the bag. The model being old blue, navy blue and



The Stocking Bag

white, these handles are wrapped in navy blue. The entire hoops need not be wrapped. Lay the handkerchief straight and fold the top into one double lox-pleat. Lay this over one side of the hoop and sew fast to it. Repeat for the opposite side and hoop. Leave six inches on each side for the opening, lay the remaining portion of the sides together and pleat. Sew firmly together on the under side. The hoops make convenient handles for carrying the bag and also hangars when it is not being used.



A Convenient Tie Rack

The letter holder is a little gift made by crossing ribbon over a silk-covered board. Brass headed tacks hold the ribbons where they cross and two brass rings attached to the top serve to hang the holder by.

It is so difficult to find any small bit of fancy-work appropriate to the wants and uses of men that a little gift such as this necktie rack will be hailed with delight. Its utility is so apparent and its making so simple that it is sure to be a popular gift at this season. This rack is made with oval embroidery hoops and ribbon. The hoops are wound tightly with the ribbon. Make a small bow at each side and the remainder of the ribbon can be used as a hanger with a bow finishing it at the top. Any color of ribbon desired may be used in making this rack.

If there's the faintest suspicion of moths about the edges of the carpets cover with a damp cloth and iron with very hot irons that will drive enough steam through to destroy moths and their larvae.

The Sewing Room

Patterns 10 cents each. Order by number, and size. If for children give age; for adults, give bust and waist and waist measure for skirts. Address all orders to the Pattern Department.

BLOUSE OR GUMPE FOR MISSES AND SMALL WOMEN, 7539

Sleeves that are stitched to the armholes without fullness are unquestioned favorites for all simple blouses or gumpes. This one can be utilized either for a blouse or a gumpe and it can be made of one material throughout, if it can be faced to form yoke and the yoke can take either a round or a square outline.

For the 16 year olds the blouse will require 2 3/4 yards of material 27, 1 5/4 yards 26 or 1 3/4 yards 44 inches wide with 18 or 18 inches wide for the yoke and cuffs.

GIRL'S DRESS, 7585

Nothing is more fashionable this summer than a finish of scalloped edges at this frock, which is made of linen with bands of embroidery, is in the very height of style. The reverse and collar cuffs are distinctive. The wide plaits over the shoulders are becoming in this dress. For the 12 year size the dress will require 3 3/4 yards of material 27, 4 yards 26 or 3 1/2 yards 44 inches wide, 1 3/4 yards of banding.

This pattern is cut in sizes for girls 10, 12 and 14 years.

TUCKED BLOUSE OR SHIRT WAIST, 7684

Tailored shirt waists are among the useful, necessary garments that are always in demand. This one is tucked to give pretty lines to the figure. In the illustration it is made from Madras and the sleeves are finished with soft rolled-over cuffs with a collar to match is worn over the neck-band. Chien, China silk and washed flannels are exceedingly well adapted to this model as well as all the linen and cotton

waistings. For the medium size, the waist will require 3 1/4 yards of material 27, 2 3/4 yards 26 or 2 3/4 yards 44 inches wide.

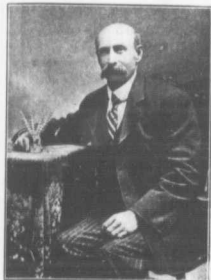
GIRL'S SACQUE NIGHT GOWN, 7529

Here is a simple model for a night gown for young girls that will be found most satisfactory. It can be made with an applied yoke over the front and back or left plain. The neck can be finished with a round collar or with a little frill of lace or of the material. The sleeves are of the bishop sort and can be made in full or three-quarter length.

For the twelve year size, the gown will require 6 1/4 yards of material 27, 7 yards 26 or 44 inches wide.

Ayrshire Breeders Practice Cooperation

Alex. Hume Menie, Ont.
The object of the Menie District Ayrshire Breeders' Club is to create a better feeling between the breeders; to overcome that feeling of jealousy that too often prevails, and so enable all to work together to improve our several herds and develop the best that is in the breed. Personally, I consider this the prime object. All the other good results expected will follow if we accomplish this. We hope to benefit by co-acting together as to means whereby the breed may be developed to its highest perfection in type and production; by endeavoring to make the good qualities of the Ayrshire known, thus making them popular; by creating a great trial breeding ground for Ayrshires and by advertising it as such through the press or any other way thought best to convince buyers that at any time they may be assured of securing animals to suit the most critical of any age or sex and in any number desired. It is only by cooperation that these objects can be attained. We early learned that both the



One of Canada's Greatest Farmers

Mr. Seager Wheeler, of Iroquois, Sask., should be classed along with our greatest statesmen as a man to whom Canadians owe much. The new "Marquette" wheat that he has produced through years of careful selection and breeding has been a winner at International Exhibitions, and is such an improvement over the varieties of wheat commonly grown that its adoption by Canadian farmers will mean many millions of added wealth to the people of this country. Mr. Wheeler is one of the many Old County men who has made good in Canada.

Dominion and Provincial Departments of Agriculture were quite willing to assist us in any way they could, and we freely applied to them. In 1911 the executive committee arranged for a great public meeting, which was held in August at the home of one of our most prominent breeders, where was a stable full of choice Ayrshires of all ages and sexes and in good condition. The Dominion Department of Agriculture, to whom we had applied, sent us, free of any charge, the expert, for whom we asked to give a lecture in the forenoon and conduct a judging class in the afternoon. The lecture was to be on a subject that would encourage and stimulate the breeders to go on improving the breed, giving suggestions how it might be accomplished, and showing the possibilities of the breed. In the afternoon the same expert (we took good care that he knew Ayrshires from the ground up) conducted the judging class by pointing out by illustrations the desirable type and conformation for the different ages and sexes. He then relied on all to pass judgment on the different animals in the class, afterwards placing them as they should be and giving his reasons. It was a



SAVES YOU MUCH MONEY ON FIRST COST.

EVER HANDY AND ALWAYS IN USE.

BOX COMES OFF
Leaves Regular Standard Truck for Use at Any Season.

AT A PRICE YOU CAN AFFORD

You can buy our New Spreader Box in connection with a Standard Truck at a price you can afford. This new Wagon-Box Attachment Spreader fills all the requirements of a large complete manure spreader.

The wagon is a regular standard truck. You can fit our spreader box on to your own wagon. Our spreader is made on most simple lines possible. No complicated parts to get out of order.

This Spreader Box of ours has been thoroughly tested out. We guarantee it to be thoroughly satisfactory.

It has many advantages over the complete manure-spreader for many people. It not only costs much less, but the wagon can be used as a truck for any purpose.

We believe that the average farmer cannot afford to put more than \$50. or \$60 into a manure spreader and find it a strictly profitable investment, so we have put on the market our 30 bush. Wagon-Box Attachment Spreader.

DESCRIPTION OF OUR SPREADER BOX—Capacity, 50 bushels; Weight, 680 lbs. This box is furnished to fit wagon that measures 38 inches between stakes, and a feet 8 inches wide from centre to centre of rear tyres. The box is 10 feet long, and measures 36 inches inside measurement, 38 inches outside, and is 15 inches deep.

Our prices will appeal to you. Write us to-night for full descriptive matter. Let us know if you care to represent us in your district.

THE MATTHEW MOODY & SONS COMPANY
TERREBONNE, QUEBEC

We believe this machine will fill the requirements of every farmer who contemplates using a manure spreader. We recommend it to you, especially should you have manure only in certain seasons, say in the spring or fall, so that you can use to good advantage around the farm, the truck carrying the spreader Box Attachment.

You ought to have one of these up-to-date labour saving, money making machines.

Write us for full descriptive matter, prices and special terms to you to represent us as our agent in your district.

WINTER TERM from JAN. 2nd, 1913

ELLIOTT Business College
Cor. York and Alexander Sts., TORONTO, Ont.
Canada's High-Class Commercial School
Highly recommended by former students.
Graduates in strong demand.
Write for New Catalogue

EARN CHRISTMAS MONEY

The Commission on a few New Subscriptions for FARM AND DAIRY will pay for many Christmas Gifts. This is the time of year when they are easiest secured. Our special offer is "Balance of Year Free." Write for Christmas Offer, order blanks and receipts.

FARM AND DAIRY, PETERBORO, ONT.

GET OUR SCALE BOOKLET



STOP THE LEAKS ON THE FARM

Every farmer is a large buyer and seller—and whether he is buying feeding stuffs, fertilizer, seed, etc., or selling live stock, grain and potatoes—unless he has a Scale on the Farm he cannot tell whether or not he is the victim of short weight.

Short weights on purchases and sales soon take the cream off the farm profits. But a Wilson Scale places the Farmer's business on a business-like foundation.

Every farm will pay a profit if all the profit is received—but what farm can stand constant leakage of a few pounds here and a few pounds there? Is it any wonder that profits are sometimes considerably less than they ought to be.

We make two Scales which are specially suited to the varied requirements of a Farm.

The first is No. 88—2,000 lbs. capacity—a good reliable scale—which we have sold hundreds to Farmers, who usually fit it to a rough platform for weighing live stock.

The other farm scale is our No. 388—4,000 lbs. capacity. This is a larger and more expensive Scale, and is supplied with a cattle platform. It is in our estimation the ideal scale for all farm purposes.

Both Scales are of the best materials, solidly made and accurately adjusted. They have all the features which have made Wilsons supreme in scale manufacture. Government certificate free with each Wilson Scale.



THIS BOOK FREE

Perhaps this "leakage" thought is new to you. Perhaps you have grown accustomed to letting others do the weighing for you. But you can see that this is not good business—you are not **81%** of getting your share of profits. You will be interested in our book "How to Stop the Leaks," which we are willing to send free to Farmers. Do not let another season pass. Stop the leaks now. Send for your copy to-day.

C. WILSON & SON SCALES
93 ESPLANADE EAST TORONTO



great educator to the members and all present as to what the breed ought to be. The Provincial Department of Agriculture, through their district representative, did all they could to encourage and assist us by sending out invitations by circular to all the members, advertising it in the press and by their presence, four being at the meeting.

AND STILL ORBATER SUCCESS

Again in August, 1912, we held a similar meeting at the home of another large breeder. An expert was sent by our request by the Dominion Department of Agriculture, thus providing us with the best ability that Canada can afford, and that is saying a great deal. Again the Provincial Department of Agriculture assisted us in the same way, and further helped us by providing, free of any charge, a large tent in which to hold the judging course and use as a lecture hall, and a

smaller one for the Women's Institute, who had a lecture of their own. The Superintendent of Farmers' Institutes sent them a lady lecturer from Whitby.

In 1911 the breeders furnished meals at 25¢ themselves, but in 1912 the Local Women's Institute took it up. Over 100 prominent breeders and dairymen sat down to dinner and many for tea. We have outgrown any breeders' accommodation to provide the meals. Provision was made to accommodate all who might come, and the committee in charge were not disappointed as many came by train, and were met by autos and conveyed free of charge to the place of meeting, and driven to the station again to catch their trains after the meeting was over. Others drove long distances; some over 20 miles. Besides there was a good turn out of local breeders and dairymen. About 300

men, old and young, were present at the afternoon meeting, besides nearly 100 ladies. It was a general holiday, and all appeared to be pleased with the day. It was a great sight to see the yards and grounds full of autos, horses and carriage.

HOW STOCK IS SOLD

During the year we have carried advertising space in some of the leading agricultural papers, as "The Menia District Ayrshire Breeders' Club." One of the members had charge of this work, and each member sent him a list of stock that he had for sale, and the member in charge would place an offer on stock to enquirers. Many inquiries were received and sales were made directly and indirectly.

We feel that now the time has come when we might advantageously hold an auction sale. Until now we have not encouraged auction sales, believ-

ing that there was not sufficient stock of good quality to warrant it. It is to be held the public can rest assured that only choice stock in good condition will be offered, and strict rules will be laid down for a bona fide sale conducted in good faith and on business principles. That is the spirit of our organization.

We believe that by cooperation we could accomplish a great deal in buying extra choice breeding stock, whether imported or home-bred.

Another great object is to increase the number of young men going in to improve the quality of all Ayrshires in the district, both in conformation and production. We believe we are accomplishing these objects. One fancier of another dairy breed was heard to say, "I never saw Ayrshires like these before. I did not know they could be so developed."

This is The Year for Buying A New Pulper



GIVE your beef a chance to make good this winter. Prices are good. It is very important that they be well fed on roots. Take no risks of choking on hand-cut turnips or mangolds. Slice your roots by machine so your stock will get full root rations.

You can get a new pulper or slicer-pulper this year easier than ever before. Compared with the value of beef, these machines have never represented such low cost as now.

These cutters are Cockshutt quality. They are light running, roller-bearing, swift-working equipment for your root house. Make your winter's job easy. Turn out a bigger beef production than ever before. These machines help you do it.

THIS machine slices roots of every kind by turning the handle one way. By simply reversing the handle, it pulps them. The big main bearings are on rollers. The heavy flywheel and sharp steel knives make light, easy work of feeding 30 to 50 head of stock with roots, and you can pulp or slice, as desired, without a second's delay.

SEND to us for further details about these pulpers. The single-hopper machine shown at the right has reversible knives and will pulp or slice as desired. Otherwise, it is the same as the double-hopper. This small slicer-pulper will pay on any farm, even if only two or three head are fattened. A slicer saves enormous labor in hand-cutting roots, and any of these machines are good for 20 to 25 years of service.



HERE is our cylinder pulper, with roller bearings. It is a light-running, long-service machine. It pulps the roots clean and unbruised instead of mashing them, thus giving you food which you can keep in pulp form without fermentation. No danger of choking valuable stock with lumps. Pulp all kinds of roots for use in feeding all your stock. Write for details.

WHATEVER the plans you have for your stock barn, write us, and we will explain to you the machine best adapted to your farm. These three root machines are all of the highest Cockshutt quality, and are built to last. The knives, especially, are of the best quality, a feature where many cutters make a bad record, which you only learn too late. Tell us exactly what you plan to do—we will help you.

If in need of any Farm Implement, write us. If you plan to improve your farm, write us. We will tell you where to get the proper implements and equipment for any kind of farm—grain, mixed, stock, dairy or ranch.

Sold in Western Ontario and Western Canada by

COCKSHUTT PLOW CO., Ltd.
BRANTFORD, ONT.

Sold in Eastern Ontario, Quebec and the Maritime Provinces by

The FROST & WOOD CO., Ltd.
SMITH'S FALLS, ONT.

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CALVES
Soon Eat
Their Heads Off
WHEN YOU FEED THEM
ON NEW WHOLE MILK!

Save Money

And economize greatly on the milk and keep healthy, thrifty, vigorous calves at the lowest possible cost by feeding

CALFINE

THE STOCKMEN'S FRIEND
(Made in Canada)

When buying Calfine you get a Canadian product, pure, wholesome and nutritious, and have no duty to pay.

Get a trial bag of Calfine. Your dealer has it, or if not, send \$2.75 to us and we will ship you 50 lbs. of Calfine as a trial, and we will prepay the freight to any station in Ontario, South and East of Sudbury.

Send to-night for your trial order of Calfine, and use it on your fall calves. They will thrive on it in a way that will surprise you.

Calfine will save you money

CANADIAN CEREAL AND MILLING CO., LIMITED
Toronto, Ontario

SYNOPSIS OF DOMINION LAND REGULATIONS

Any person who is the sole head of a family or any man 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.

Duties—Six months residence upon cultivation of the land in each of three years. A homesteader may live within ten 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 pre-empt a quarter-section alongside his homestead. Price, \$1.00 per acre.

Duties—Must reside upon the homestead or pre-emption six months in each of six years from date of homestead entry (including the time required to clear 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, \$10.00 per acre. Duties—Must reside six months in each of three years, cultivate fifty acres and erect a house worth \$50.00.

W. W. GOBY

Deputy of the Minister of the Interior
N.B.—Unauthorized publication of this advertisement will not be paid for.

Edward Charles Ryott

AUCTIONEER AND VALUATOR
Pedigree Stock Sales are my specialty. Many years successful experience out from Woodstock, Oxford Co., Ont., qualify me to get you satisfaction. Correspondence solicited. 123 Carfax Avenue, Toronto, Ont.

Send your Raw FURS to John Hallam

Sixty Thousand trappers now send us their Raw Furs. Why not you? We pay highest prices and express charges free to commission and send money same day goods are received. Mink, beaver, and all wild trapping each year. Deal with a reliable house. We are the largest in our line in Canada.

FREE "Up to the minute" fur quotations and the **BEST OF HALLAM'S TRAPPERS GUIDE**, a book of 50 pages, mailed FREE. Write to-day to John Hallam, Hall Dept 23, TORONTO, 1111 Front St. E.

FARM MANAGEMENT

Have a Leader

By O. M. Olson

Every progressive merchant, no matter how large his stock in trade, caters to the public with some particular part of his stock as a leader. Likewise, sensible farming may call for a diversity of lines, but he is a poor workman who does not show aptness for some particular thing, and indeed a poor farmer if one cannot find something to commend. If your aptness leads you toward dairy stock, horses, hogs, corn, turkeys, or whatever else, follow it to the extent that it brings you not only satisfaction and success, but financial return as well. Do not, however, permit it to so far outweigh the other lines you are following that it will unbalance your system of farming. One-sided farming is dangerous to follow, and is seldom a lasting success.

Your leader should be one that will attract the attention of your neighbors and set the pace along that line in the community. Not only will it set the pace of the community, but if you are made of the right stuff, it will mark the pace for the other lines you are following, and raise your standard along all lines.

Pure Seed Pointers

Have you saved and cured your seed corn? Don't fail to do this. The present indications point strongly toward a repetition of last spring's scarcity and poor quality.

Have you got your clover, timothy and alfalfa seed for next spring's seeding? Now is a good time to get it. Write the Secretary of the Canadian Seed Growers' Association, Canadian Building, Ottawa, for a seed list. You can then buy directly from the producer. Improved strains are advocated.

How about the seed wheat? Have you a pure variety and a clean lot of seed? If not, ask yourself why. You can save what seed you will need from this year's crop and still be able to sell the rest on the general market for as good a price as though the best had not been removed.

Is your farm free from wild oats, Canada thistles and mustard? If not, why not? Pure seed from a small separate seedplot and rotation of crops will solve the problem for you.

Pointers on Mechanical Milking

Dallas E. Davis, Monroe, Wis.

I find that our cows take kindly to the machines.

To the best of my judgment we have never injured a single cow by the machines.

It has enabled me to milk with the aid of only one man, from 30 to 40 cows each year, one man doing practically all the milking.

I consider it not only a time saver but a labor saver as well, and I believe it enables me to keep a good class of help.

I have found that cows that will kick and often resist even careful hand milking generally take kindly to the machines.

I milk valuable pure-bred animals with the machines. I believe the machines are here to stay, and whenever dairymen want them badly enough to carefully operate them they will be generally used.

Stanchions or stalls are very convenient in feeding calves. They ensure to each calf a just allowance, and this method is much easier on the feeder.

MERCHANTS PRODUCE CO.
Butter Eggs Poultry Honey Beans Apples Potatoes, etc.
Our constantly growing trade demands large supplies of choice farm products. We need you. Write for weekly market letter.
87 Front St. E., Toronto
Established 1889

\$5.00 to \$25.00 Christmas Money
If you want to earn \$5.00 in your spare time before Christmas, as several of our readers have done; or \$5.00, \$10.00, or \$15.00, as many others have done; write for our Christmas offer.
FARM AND DAIRY



"Hello, Tommy! Chores done already?"
"Yep! Aint you seen our new Litter Carrier? It's a cinch—you should write to Dillon's for their book—same as Dad did."

You can if you work hard enough, and if you have the time and patience, keep stables perfectly clean with the help of fork, broom and wheel barrow.

But those were ways of twenty years ago—before labor was so high and hard to get.

Stable Cleaning by the Dillon Method can be cut down to less than half the time, and a quarter the labor formerly required,

Your man's time is valuable—then cut down the time he spends cleaning the stables.

Your stock is valuable—then give them cleaner and healthier surroundings.

DILLON'S Litter Carrier

Figure it out for yourself. Get our free book.

Dillon's sell direct to the Farmer. There are no Agents and no Agents' profits. The price is the same to all, and lower than you would expect for such substantial and well-built equipment. DILLON'S BOOK ON CLEAN STABLES gives you an exact idea of what you can accomplish for a small outfit. Write for a free copy.

R. DILLON & SON
OSHAWA, ONT.



1000 PERCHERONS Stallions and Mares WANTED in ONTARIO

I have sold nearly all I brought over this summer and am leaving for France the 2nd of this month for another shipment of Percherons, stallions and mares. They will arrive at my barn, Weston, Ontario, about December 1st. Will have an exhibit at Guelph Fat Stock Show. Price will be in reach of everyone that wants a good stallion or a big blood mare, and terms to suit. Write for particulars, or better, come. No trouble to show what I have. Visitors always welcome. Address:

J. B. HOGATE
West Toronto, Ont.
Barns at Weston, Ont.



Unusual Records with a Small Herd

"Farmers who milk the average cow that gives 4,000 pounds of milk in one year and do not grow for her the fairly well balanced roughage, that saves the larger part of the usual grain bill, are not getting very much out of farm life," says W. H. Jenkins in Hoard's Dairyman. "The good things that every man has a right to will certainly come to him when he is willing to study, learn scientific methods, and do his work rightly. There are some truths I want farmers to see more clearly and I will describe a plan of intensive dairy farming in New York to show results of its practice."

"This farm is in Northern New York where some adverse conditions as a cold climate and heavy or wet soils must be contended with. The farm is owned by O. L. Barber and contains about 35 acres of tillable land, on which are kept eight pure bred Holstein cows. According to authentic records the best cow in his herd in one year gave 17,000 pounds of milk, and the poorest 14,000 pounds, and the average between 15,000 and 16,000 pounds. This means that Mr. Barber's eight cows are equal to 26 of the average cow I have mentioned."

"He will interest us to know how Mr. Barber got his herd of pure bred cows. He bought some good cows and then bred them to the best sire in his locality. Year after year he tested his heifers and cows and kept only those that reached his high standard of milk production. These cows are fed ensilage nearly all the year, but less in summer when they have the run of a very small pasture, and are fed green oats and peas, or clover, etc."

The winter grain ration is reduced but little in summer. This ra-

tion is 10 pounds per day for cows in full flow of milk. It is usually a mixture of dried brewers' grain, glutin meal, wheat bran, ground oats, and either cottonseed or oil meal."

Build Permanent Buildings

By A. D. Wilson

As agriculture assumes a more permanent form, and systems of farm management are somewhat definitely worked out, we believe the need of temporary and poorly constructed farm buildings is rapidly disappearing.

When a building is being erected to serve for from 10 to 100 years, and when one stops to consider that a door, an alley, a window, or hay chute improperly placed may add each year many of those unnecessary steps to the work of caring for the stock, the importance of making suitable plans for buildings, and carefully working out every detail before they are constructed, is apparent.

Materials which are quite permanent, such as concrete, stone, brick, and steel, are now being used for building and at prices not greatly in excess of the cost of wooden buildings. If a building costing \$100 can be so erected that it will be practically permanent, the annual cost of the building will be represented by a reasonable rate of interest, or from \$5 to \$6 a year. If \$100 is invested in a building somewhat temporary in character, so that an annual depreciation of from three to four or five per cent must be provided for each year, the annual cost of the building must be from \$10 to \$12 or more.

It is apparent, therefore, that a considerably larger original expense in permanent construction may be more profitable than a comparatively small expense in temporary work.

THIRD ANNUAL
Toronto Fat Stock Show
UNION STOCK YARDS, TORONTO
Awarding of Prizes
TUESDAY, December 10th, 1912
Auction Sale of Prize Winners
WEDNESDAY, Dec. 11th, 1912
You are invited to come and see Canada's best in Live Stock
ADMISSION FREE. Reduced Passenger Fares on all Railroads
EXECUTIVE COMMITTEE
ROBT. MILLER, President
PROF. GEO. E. DAY
MARTIN J. GARDHOUSE
J. H. ASHFORTH, JR., Gen. Manager
C. F. TOPPING, Secretary, Union Stock Yards, Toronto

BRANTFORD GASOLINE ENGINES AND BRANTFORD WINDMILLS ARE LEADERS IN THEIR LINE

We manufacture the most complete line of each in Canada, as well as

**GRAIN GRINDERS, Eight Sizes
TANKS, WATER BOXES
STEEL FRAME POLE AND CORDWOOD SAWS
IRON PUMPS, CONCRETE MIXERS
POWER SPRAYING OUTFITS**




The Robson Co. at Brantford have one of our Engines running one of our 13 Grinders doing Custom Grinding for fourteen years, and they say it is running as good as ever and giving the best of satisfaction

Fred Vickert at Princeton has been running one for thirteen years and says it is good for another thirteen

When buying a Gasoline Engine you are not buying an Agricultural Implement, but a Machine. Our Engines are made as good as the Machinery that make them. Ask the man who has a BRANTFORD

OUR FACTORY

We have separate Catalogues describing
Windmills and Accessories
Gas and Gasoline Engines
Grain Grinders
Power Spraying Outfits
Write if Interested

We build the best line of Windmills in the World. Have best all comers in three different trials

All Mills Galvanized after completion and All Towers Girted every five feet and Double Braced

GOULD, SHAPLEY & MUIR CO., Limited, BRANTFORD, Ont.
BRANCHES: WINNIPEG, REGINA, CALGARY

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Transformation of a Farm
(Continued from page 25)

waken the structure of the whole building, and not only said so, but objected strongly to the change. John, however, had thought it out and had decided that it would not. He, therefore, went ahead with the work. On the more success attended his efforts. Work in the stable thereafter was much more comfortable.

BUILT A SILEO
The next radical improvement decided upon was to build a silo. At that time there was not a silo anywhere in that section of the country. None of the neighbors knew much about them. The general impression was that they were of little or no value. Ensilage, some said, would taint the milk. Undismayed through listening to this advice, and against the wishes of his father, who had never had experience with one, John decided to build one. He had to go a mile and a quarter for gravel, but he figured out that it would not cost him much. He therefore set to work in spare time and put up a really excellent silo, 13 ft. 4 inches inside measurements, and 26 ft. high, of cement, at a total expense of not quite \$100. A roof that cost \$50 extra, was added. It was so constructed that it could be filled with silage in the fall which later, as the silage settled, would sink and fill the cement part of the silo full. This has proved one of the best investments in time and money that he ever made.

STARTED IN DAIRYING

By this time John had concluded that the time had come for him to change the system of farming he had been following, and to go in for dairying. His father, having been successful on the old lines, was averse to the proposed change, but John was convinced that conditions had altered and that a change would be for the best.

A NEIGHBOR'S EXAMPLE

"I had heard of one man," he told our editor, "who had found it hard some 10 years before to make ends meet. At that time he was raising steers and grain as we were. He changed and went into dairying, and prospered." I inquired, and found that the production of this man's farm had doubled since the change. His success bore out what I had been reading in Farm and Dairy. Finally, I concluded that I could make more money from the production of cream than in the line of farming that I had been following.

"I figured it out in this way: If I put a steer in the stable in the fall, I had to pay as much for it almost as a dairy cow. If I fattened it all winter, and sold it in the spring, I would do well if I doubled my returns on it, and then I would have nothing left. If, however, I bought the same money or a little more into a dairy cow, I would make enough more out of the sale of the cream than I would from the sale of the steer, to more than offset the extra cost involved in the purchase of a fairly good cow. In addition, I would have the skim milk for the other stock. This, I considered, would more than offset the extra labor involved in the milking of the cow. In the spring she would give a pretty poor animal if she would not sell for \$40 to 50. Thus I would have her value in the spring, and the value of her calf as a clear gain over what I could hope to secure if I raised the steer instead.

FIRST START IN DAIRYING

"This reasoning led me to make my first start in dairying three years ago. I bought some 15 ordinary grade cows in the Muskoka country. These animals were a sort of native cow, inclined more to the dairy than to the beef type. I weighed their milk every little while, and tested it, and

thus kept track of what they did. Their cream was shipped to the City Dairy, Toronto, who promptly remitted every month a check for the cream produced. My best animal gave me 24 lbs. at a milking. The best tested cow tested four per cent. in the full flow of her milk. Only one cow tested less than 3.4 per cent. Any man that is going to produce cream should invest in a Babcock tester.

FARM REVENUE DOUBLED

"During the following summer my cream averaged 32 cents a pound but fat was winter it averaged me 36 cents. This extra revenue on the farm was double what it had been on the average for the previous several years. I did not buy more than about \$75 in food. Help did not cost any more, although we had to get somewhat harder on the farm."

PURE BRED STOCK

These gratifying returns led Mr. Tamblin to take up the breeding of pure bred Holsteins. "I decided," he said, "after I had thought it over, that it would not cost me any more to feed pure bred stock than it would to raise grades and that while the first expense of buying pure breeds would be greater this would be much more than offset by the extra prices I would get from the sale of the young stock, and by the fact that year by year as the herd increased, numbers their value would increase in proportion. As I did not have much money, and as I realized that I lacked experience, I decided not to go at it too steeply at first, and to purchase only two heifers and a pure bred young bull as a start.

"As I did not like to take many chances on the stock I might get I took the train east and visited a well-known breeder, Mr. Gordon Manhard, near Brockville, who was advertising in Farm and Dairy. He treated me hospitably, keeping me over night, and giving me a large amount of milk, any or all of the cows, in his stable. I took advantage of this opportunity and soon picked out a couple of animals that I thought would suit me. He set a price on them of \$200 each, and told me I could have a fine bull calf for \$50, if I took the two heifers. This bull was a son of Brightest Canary, and his five nearest jobs had an average record of 27 lbs. butter in seven days. Before buying them I accompanied Mr. Manhard to Mr. Higginson's sale of Holstein cattle held at Inkerman, where after seeing the stock that was offered and the price realized, I concluded that I could not do better than purchase the three animals from Mr. Manhard at the prices he had set. They were all out of cows having good records.

"I knew that my father would like to see me buy three dairy pure breeds to start with, and that he would think I was foolish to pay such prices, especially as there were no Holsteins kept in our vicinity. I had read so many articles, however, in Farm and Dairy of men who had made a success with pure bred dairy cattle, I felt that I was not making a mistake, and therefore completed my purchase. I purchased them in the fall of 1910, and they have proved one of the best investments I have yet made."

The Holsteins purchased by Mr. Tamblin pure bred and well for him. One of them, Princess Concordia, produced 11,401 lbs. of milk, and 375 lbs. of butter fat last year, which was her first milking period. The second year she took Dr. K. produced 10,440 lbs. of milk and 363 lbs. of butter fat, in her first milking period. The average test of the former was 3.29 per cent., and of the latter 3.48 per cent. These records were made during the extreme drought of 1911, and each animal dropped a calf within 13 months.

Although only a beginner and do-

SEEDS **SEEDS** SEEDS

Recommended By A Friend

New customers are coming to us each year recommended to us by their friends—

Because our friends, who used our seeds, found them to be good honest seeds, giving satisfying results.

A very large amount of our business is done with old customers, that are coming back year after year with repeat orders for our seeds.

Each of our old customers will receive a copy of our new catalogue, which will be out February 1st, 1913

You can have a copy of our new catalogue for the asking. Say you write us for one, now, while you are thinking about it!

Nearly every good farmer in Ontario, makes sure of getting our catalogue. We have made a specialty of farm seeds, since 1869.

This coming season our stock of seeds will be the very best that can be had. Every lot of corn, roots, and vegetable and flower seeds we receive will be tested for germination.

Seed that shows strong vitality and sure germination, will be the only kind of seed we will have to fill your order.

Last season our orders doubled our orders of any previous one season in our 46 years experience. We have made ample provision to take care of this greatly increased business. We will fill your order with dispatch.

WANTED TO Buy, good clean clover, timothy seed or seed and we will quote price by return mail.

GEO. KEITH & SONS

Seed Merchants since 1866

124 King Street East, Toronto, Ont.

CALVES RAISE THEM WITHOUT MILK
Booklet Free
Steele, Briggs Seed Co., Ltd., Toronto, Ont.

CATTLE TAGS. Sheep and hog tags, metal ear labels with owner's name, address and number. Save time and trouble, avoid losses. Write for free circular and samples. W. G. James, Newmarket, Ont.

A "Monarch" Engine

Helps Make Farm Life Ideal

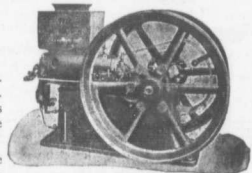
Why Not Get One?

STOP a minute and think. Farm work is hard. Wages are high. Help is scarce. Yet, prices are good.

This makes it worth while to look round for labor savers. The farm gasoline engine is one of the best equipments for the modern farm.

Get one and do more work in a day. Stop hand pumping, wood sawing, root cutting. Do this with the "Monarch." It pays.

Get one and save a hired man's wages. A stock barn is not really equipped until it has power for pumping, chopping, straw cutting, root pulping, etc. Get a grain grinder and the "Monarch" will earn its cost in a single winter just by tolls at 6c a hundred on chop cutting for neighbors. And pay for the mill, too.



This is a Superior Farm Worker

OUR "Monarch" is made from the best materials money can buy. Every worker is a specialist on a single part of the engine. We make it strong, with over-size high-carbon shaft.

We actually put in a timer. We have a speed-changing device. We have a safety protected fuel tank with sight gauge in the base.

These features are automobile engine features, seldom furnished on farm engines. The "Monarch" is the strongest, best and most up-to-date engine money can buy. Yet the price is right, because so many are sold by us.

We have all sizes from 1 1/2 to 35 horse power, unmounted, mounted on skids, or mounted on special tractors to move easily.

You, your wife or your son can all run the "Monarch." It means an easy life for your people instead of a hard one.

WRITE US TO-DAY

YOU can get a Monarch on easy terms, just like buying a plow or harrow. It will pay its way all the year round. Send a post card right now, please, asking about "Monarch" engines.

Canadian Engines Limited

DUNNVILLE, ONT.

Frost & Wood Co., Limited, Smiths Falls, Ont., Sole Selling Agents in Eastern Ont., in all Quebec and in the Maritime Provinces

A Prize Food for Prize Stock

You can raise "fall" pigs and have them fine and fat for the May market. All you need is a little extra care and "INTERNATIONAL STOCK FOOD."

Food "INTERNATIONAL STOCK FOOD" with a combination of ground corn, oats and rye—and they will not only keep healthy, but also fatten up in a way to astonish your neighbors. The average pig does not digest more than half of the grain fed. The other half is wasted. "INTERNATIONAL STOCK FOOD" tones up the digestive apparatus, insures perfect digestion, and thus saves this waste in grain. "INTERNATIONAL STOCK FOOD" is a purely vegetable preparation—a wonderful tonic—that keeps hogs well and vigorous, and protects them against the ravages of Pneumonia and Cholera. 78

Make a nice profit on your "fall" pigs by feeding "INTERNATIONAL STOCK FOOD." Get a trial to-day from your dealer.

INTERNATIONAL STOCK FOOD CO., LIMITED TORONTO

MONEY can be made easily by showing Farm and Dairy to your friends and getting them to subscribe. Write us today for our favorable terms. Application blanks and sample copies sent free on request.

The Systematic Use of

CALDWELL'S MOLASSES MEAL

Means Prime Conditioned Stock at Less Cost than your Present Feeding.



Get that fact. Caldwell's Molasses Meal does not add to your feeding costs. It's a distinct economy. Use it according to directions. Your horses will look better, work better and live longer. Cows will keep up in flesh and give more milk. Sheep will thrive, lambs come earlier to maturity, and your hogs show you an increased profit.

N. B.—You can buy Caldwell's Molasses Meal either direct from the factory or from your feed store. Clip out Coupon, mail to us, and we will send you full particulars.

The Caldwell Feed Co., Ltd.

Dundas, Ont.

(COUP ONLY HERE)

"Farm and Dairy," Peterboro
Please send me booklet and full particulars as to cost, etc. of Molasses Meal.

Name

Post Office

Province

ing things in a small way, Mr. Tamblin, with unusual foresight, entered both animals at the beginning of their milking period in the Record of Performance test conducted by the Dominion Government. The foregoing figures of the production are those furnished by the Government. These official tests have greatly increased the value of both animals and will add to the value of their progeny. During the test while the Government officials who conducted it were visiting at the farm, Mr. Tamblin took advantage of their presence to learn all he could from them about the handling of pure bred stock, and the methods pursued by other successful breeders.

THE HEIFERS SURPRISED ME

"The great production of these heifers," said Mr. Tamblin to us, "fairly opened my eyes. When a full sits down and gets 25 lbs. of milk or so at a milking out of a pure bred when he has been in the habit of getting less than half that amount out of some of the grades, it makes him feel kind of sick when he thinks of all the time and money he has lost wasting time over grades."

The cream from these two heifers netted Mr. Tamblin some \$300 the first season, the value of the skim milk at 25 cents a hundred pounds being included in these figures. Both heifers dropped heifer calves for which Mr. Tamblin was offered \$100 each when they were nine months old. This year his heifers dropped a bull and heifer calf, and Mr. Tamblin bought five more females. This gave him a herd of 10 females besides the bull he purchased and the bull he bred. Since then he has sold his sheep and bought two more pure bred cows, which gives him 11 cows and heifers that are due to freshen by February 1914. He intends to enter them all in the Dominion Record of Performance. From now on it is his intention to breed his own stock from his total of 12 females.

A WATER POWER SYSTEM

Within the past year Mr. Tamblin has introduced still another improvement on the farm which is one of the most ambitious undertakings of the kind we have ever seen on a farm. He has dammed back part of a stream running at the foot of a hill on which his house is situated, built a small power house, and thus is able to generate 20 horse power which is carried by cable to the barn, where it is used in various ways.

Two years ago Mr. Tamblin first told us that he was planning to obtain power in that way. He first got a spirit level and examined the ground to see where the water would come were he to build it. The proposed dam. He found that he could obtain 18 feet head, and then wrote to the Guelph Agricultural College for advice. Being satisfied, from his investigations, that he could build it, he once more set to work in his spare time, and in the course of a month the dam was completed.

The channel into which the stream can be diverted is about 25 rods long, 12 feet wide, and at the

dam is seven to eight feet deep. In the same freshets Mr. Tamblin is able by a gate to turn all the water into the regular bed of the stream. No danger, therefore, of the dam at such occasions. The installation of this power cost some \$300. This included the purchase of the water wheel, transmission rope, gearing power house, shafting and pulleys at the barn. The labor cost was extra.

HOW THE POWER IS USED

In return for this expenditure Mr. Tamblin saved \$25 last winter alone in grinding grain. In addition the power was used to saw all the wood, milk all the summer. When attached to the emery it gives a revolution of 1,800 a minute, and when attached to the grinder about 1,400 revolutions, and the cut box at about 350. It operates both the rip and cross-cut saws. He has ground two bushels of grain in six minutes when the wheel is run one-third open. Were there a little more water, Mr. Tamblin would use the power to light the barn and house.

OTHER IMPROVEMENTS

Still another improvement that has been added during the past few years has been the construction of a separator room, which is in communication with the cow stable. Water pipes run into it. This room is illustrated in this issue. It cost \$100. He has also torn out a number of old root bins in the cow stable and extended his stall space for cattle, which now extends the complete length of the barn. The result is that where it used to stable 20 head of cattle and eight calves, he now has accommodation for 27 head of cattle and 13 calves. A diagram before and after these changes were made is published on page 25.

FARM MANAGEMENT

The home farm comprises 156 acres with some 60 acres farther north which Mr. Tamblin has bought for pasture purposes since he took charge of the farm. Mr. Tamblin follows a three year rotation: First, is clover sod. Next year one field is used for hoed crop and one field is devoted to a mixed crop of oats, peas, barley and wheat. He next top dresses and seeds down and follows with a crop of clover which is plowed down. He is planning to plow up a field of clover and to raise a crop of corn each year for fall feed. Last year he put in 17 acres of corn. He has four acres of alfalfa and plans to seed 10 acres more.

Mr. Tamblin is now planning to keep only a few pigs as he finds that it requires too much time to look after them. This will leave him more time to devote to his pure bred cattle. As Mr. Tamblin is still a young man, not yet 30, he has a bright future ahead of him as a farmer and breeder. His example as thus set forth may well lead thousands of other young farmers to look around their farms and see if they cannot "go and do likewise."—H. B. C.

"Bissell" is a 3-drum roller

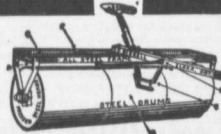
3 DRUMS make the best Land Roller. It is easy to understand how the "Bissell" Roller with 3 drums and supported by 6 heads is a STRONGER IMPLEMENT than any 2 drum Roller on the market. With 3 drums the centre bearing is not needed. When the "Bissell" Roller is at work, the axle turns with the drums.

It costs more to manufacture the 3 drum Roller than the 2 drum, but you pay no more for the "Bissell" 3 drum and get BETTER VALUE FOR YOUR MONEY. You get heavier weight in the "Bissell" drums too.

The good points cannot all be told here. Ask your dealer about the "Bissell" Roller and do not be put off

with a Roller unless the proper name "Bissell" is plainly stencilled thereon.

Grass Seeder Attachment furnished if required. Write Dept. A for free catalogue. 63



T. E. BISSELL CO., LIMITED, ELORA, ONT.

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Ceilings and Walls

Now is the time to beautify your home with Embossed Metal Casily Applied!

Everlasting!
Get ready for Christmas. Any handy man can erect. A Roll Card to us with the word Ceilings and your name and address will bring you free illustrations.

Free Plans
The Galt Metal Co.
25, Stone Road, Galt, Ont.
Windsor Branch, Woodway, Ind.

EGGS, BUTTER AND POULTRY

For best results ship your live Poultry to us, also your Dressed Poultry, Fresh Dairy Butter and New Laid Eggs. Egg cases and poultry crates supplied.

PROMPT RETURNS
Established 1854

The Wm. DAVIES Co. Ltd.
Toronto, Ont.

MAIL CONTRACT

SEALED TENDERS addressed to the Postmaster General will be received at Ottawa until Noon, on Friday, the 7th December, 1912, for the conveyance of His Majesty's Mails on a proposed Contract for four years, six times per week, over Rural Mail Route No. 3 (Postmaster Ontario), to commence at the Postmaster General's pleasure.

Printed notices, containing further information as to conditions of proposed Contract, may be seen and blank forms therefor may be obtained at the Post Office of Peterboro and at the Office of the Post Office Inspector at Kingston.

G. C. ANDERSON,
Superintendent.

Post Office Department,
Mail Service Branch,
Ottawa, 9th November, 1912.

Warranted to Give Satisfaction.

Gombault's Caustic Balsam



Has Imitators But No Competitors.

A Safe, Speedy and Positive Cure for Curb, Spittle, Scurvy, Capped Hoof, Strained Tendons, Foulness, Wound, Puffs, and all lameness from Sprains, Rheumatism and other heavy tumors. Cures all skin diseases or Parasites. Cures Thrush, Phlegmasia, Empoema, all Bunches from Horns or Cattle.

Is a Remedy Ready for Rheumatism, Gout, Sprain, Burns, Itch, etc. It is Warranted to Give Satisfaction. Price \$1.00 per bottle. Sold by all druggists. Sent by express, charges paid. We will direct you to the nearest reliable and responsible druggist, chemist, or pharmacist. Address

The Lawrence-Williams Co., Toronto, Ont.

MR. GIES TO SELL HIS HOLSTEINS

Because he has sold his farm and is giving up farming, Mr. C. R. Gies, of Heidelberg, Ont. (Waterloo Co.), will sell his Holsteins at public auction, without reserve, on Tuesday, December 11th. The herd comprises some 33 head of females and six males, including the first and junior champion at the Toronto Exhibition this year.

You will want a copy of Mr. Gies' catalogue, which will be ready by the time you write for it. The cattle offered have been bred for results at the pail, and have had to pay their way. The pedigree shows this stock to be bred from noted strains, mostly all with official bookings. Mr. Gies, on account of pressure of work on the farm, and scarcity of help, has found it impossible to give his cattle the necessary extra care and attention called for in giving them official records. Write Mr. C. R. Gies, Heidelberg, Ont., for the copy of his catalogue and study up the rich breeding of the cattle he is offering and which you may want.

THE HOGATE PERCHERON IMPORTATION

Farm and Dairy has recently received a letter from Mr. J. B. Hogate, whose trip to Europe to buy Percherons was announced in these columns some weeks ago.

"I have finished buying my shipment of Percheron stallions, and we have been successful in getting the best shipment that I have ever imported. They range in age from 2 to 4 years, with some of them 5 years old, mostly greys. I believe that this shipment, if landed safe, will surprise the home buyers and breeders of Canada the most and carry the weight of the market weight from 1,700 to 1,900 lbs., and full of quality. If they ship well I expect to have a car of them at the Dutch Show to London on Nov. 21, and they should be in Weston on the first day of December. Am shipping Atlantic Transport Co., steamer Minnewaska, via New York."

"I have been automobileing over 1,400 miles the last 10 days, buying my horses, and you have no idea what fine roads they have in this country. I wish Canada would get busy."

PERCHERONS AT SIMCOE LODGE

Amongst the Percherons inspected by an editor of Farm and Dairy at "Simcoe Lodge," Peterboro, Ont., and owned by Messrs. Hodgkinson & Co. and referred to on page 9, this issue, were:

Jura (Imp.) (2141) (38,362), a black stallion foaled March 29, 1909, horse of most pleasing conformation, feet and legs to please the most particular, and action that is really wonderful. A splendid illustration of this horse is given in the "Simcoe Lodge" catalogue, which will be sent you free on applying to Messrs Hodgkinson & Co., Toronto.

Isaque (Imp.) (2854) (8930), a light grey Percheron mare, foaled March 12, 1906; she is all you could desire. See her photograph elsewhere in this issue, which shows her to be a magnificent individual.

Kanalle (Imp.) (2958) (92,259), foaled March 20, 1908, also a showilly, having won second in a class of 49 in a great Percheron show in France.

Kaimacan (Imp.) (2862) (90,427), another grey and a mare for a little thought, a little thicker set and heavier boned. Foaled April 3, 1910. Messrs. Hodgkinson & Co. have always specialised in mares and fillies. They have something to be proud of in the Percheron fillies now have, including the three mentioned above and shown in the illustrations in this issue, and also described and illustrated in their catalogue.

Space forbids that we tell more of these horses at this time other than to mention the stallions Kabot (Imp.) (3001) (90,448); Jovial (Imp.) (3006) (84,145), and Juant (Imp.) (2848) (86,629), these three being shown in the illustrations in this issue.

In addition to their Percherons, there are at "Simcoe Lodge" a number of very choice Clyde mares, including Colgate Queen, Lady Kelso, Lady Bain, Miss Fotheringham and her filly foal Patricia, Lady Favorite and others, all of which you can learn about and the descriptions from the "Simcoe Lodge" catalogue.

If you must use an all-barbed-wire fence, place the rottenest strand next the ground. It is easier torn and the other wire gets a foot over it stands a better chance of getting away with nothing more serious than a wire scratch.

MOLASSINE MEAL



For HORSES
Keeps them in good health. Prevents and eradicates worms. Is equally suitable for work horses or race horses. Saves Veterinary expenses.

MILCH COWS
MOLASSINE MEAL wonderfully increases the flow and quality of the milk and makes rich-flavored butter and cheese. Dairy experts know its value. Healthy cows give more and better milk than unhealthy ones and when milking days are over are in better condition for the butcher.

STEERS
MOLASSINE MEAL will fatten steers quicker and better than any other food.

SHEEP AND LAMBS
can be made ready for market very quick. MOLASSINE MEAL makes rich-flavored meat which commands top prices.

PIGS
Fetch higher price, and are always ready for market three weeks earlier when fed on MOLASSINE MEAL. Keeps all animals in perfect health and condition and enables them to obtain the full complement from their own food. It makes a great food for the pig, so it not only requires an equal quantity of other feed but gives the full food value from the other feed. Use the granules made in England. Try it this winter. Ask your dealer, or write us direct for full feeding instructions.

THE MOLASSINE CO., LTD., LONDON, ENGLAND
Distributors for Canada—L. C. PRIME CO., LTD.
10, John, M.E. 402 Board of Trade Bldg., Montreal. Pacific Bldg., Toronto

AGENTS WANTED

To represent a full line of Galvanized Steel Tanks and Troughs, Steel Sprinklers, Cheese Vats, Maple Evaporators, Stable Troughs and Sanitary Closets.

These lines are reliable and good sellers. They carry the full guarantee of the largest exclusive galvanized steel tank manufacturers in Canada.

Liberal terms will be granted to the right man. Arrange for interview stating territory desired. Address replies to:

H. W. K., c/o J. Walter Thompson Co., Ltd., Lumsden Building, Toronto.

The Stockman's Gate



ALMOST every prominent stockman in Central and Eastern Canada has installed "Clay" Steel Farm Gates on his farm because of their superiority over all other farm gates.

"Clay" Gates

EVERY "Clay" Gate is positively guaranteed against defects in material or workmanship. It will replace free any part or the entire Gate giving out for such reason.

60 Days Free

One or a dozen Clay Gates sent for 60 days' free trial. Try them before you buy them. Install one or two now—before winter sets in. They raise us shown to lift over snow.

R. RALPH STEELE
Manager



The Best Farm Gates

Are so strong that they will positively keep back heavily laden cattle. They raise us shown to let small stock through or to lift over snow in winter. "Clay" Gates cannot be broken down by heavy usage or rot. They are light—a woman or child can work them with ease. Every gate is fully guaranteed. 30,000 Clay Gates have been sold this year.

Send for illustrated price list.

THE CANADIAN GATE CO., Ltd.
29 Morris Street - GUELPH, ONT.

Where Would You Go?

To find Holsteins that will pay you better,—that will be in more demand,—that are more likely to make big records of milk and butter fat production than stock from the following:



This is Pontiac Korndyke

The Greatest Bull of any breed, now 17 years old. He has sired 4 daughters having records exceeding 37 lbs. of butter in one week of 7 days.

He also has sired 12 daughters with butter records exceeding 30 lbs. in 7 days. He has over 74 daughters and 26 proven sons in the Advanced Registry.

He is sire of "King of the Pontiacs," a bull which has sired two daughters having records better than 30 lbs of butter in 7 days, and these records being made as three-year-olds. This latter bull is the sire of my great herd bull, which is shown below.



This is My Herd Bull

A Grandson of Pontiac Korndyke A Son of King of The Pontiacs

I am sold right out of stock for sale from this bull, Prince Hengerveld of The Pontiacs. Am now booking orders for the coming crop of calves. Do you want one? Write me of your probable wants in this kind of money making Holsteins.

A month's son of Pontiac Korndyke and a really excellent one,—mostly white and a bull every inch of him—I will price right.

Two Heifers and another Bull Calf I will offer you.

I invite you to come to my barns and see this stock. You can have your choice. Upwards of 100 Holsteins in the herd for you to choose from. ALL PRICED REASONABLE SO THAT THEY WILL MAKE YOU MONEY.

GORDON S. GOODERHAM

THE MANOR FARM - BEDFORD PARK, ONT.

MARKET REVIEW AND FORECAST

Toronto, Monday, Dec. 3.—Cold weather has had a stimulating effect on trade; particularly the farmer trade. Retail merchants report business more active and more. Farm produce is being marketed than for some time past. It is anticipated that the trade of Canada in 1912 will exceed the trade of the previous year by many millions of dollars.

The wheat situation has many unfavorable aspects. It is reported that there are four million bushels of Canadian grain afloat at Buffalo waiting for a chance at the elevators. Duluth has extended its shipping season five days to make room for Canadian grain. This indicates the extent to which our grain is being shipped via American ports. It also indicates the inadequacy of our present Canadian means of transportation. It would seem that anything that would give Western grain-growers an opportunity to market their wheat nearer home would be of inestimable value to Western Canada.

WHEAT

Wheat quotations have steadied in their downward trend with the end of lake navigation. Further changes will depend largely on the reports from Argentine where it is expected that harvesting will start this week. Favorable or unfavorable reports will have a decided influence on wheat prices. No. 1 Northern is quoted at 92c; No. 2, 89 1/2c; No. 3, 86c; feed, 67c to 70c. Ontario wheat continues in good demand at 96c to 97c outside and as low as 76c for poorer grades.

COARSE GRAINS

Oats are a trifle stronger. Peas can hardly be gotten at an advance of 10c. Rye is moving in fair quantities. Buckwheat is in over supply and has declined one to two cents. Quotations are as follow: Oats, C. W. No. 2, 41 1/2c; No. 3, 40c; No. 1, feed, 40c; Ontario No. 2, 36c to 38c outside; 37c to 38c on track here; buckwheat, 60c to 61c; corn, 52c to 61c; peas, \$1.25 to \$1.30; rye, 62c to 65c; barley, 62c to 70c; feed, 48c to 50c. Quotations at Montreal are as follow: Oats, C. W. No. 2, 32c to 42 1/2c; extra No. 1, feed, 42 1/2c; corn, 61 1/2c to 69c; peas, No. 2, \$1.20 to \$1.25; boiling peas, \$2.25 to \$2.65; barley, malting, 80c to 82c; feed, 60c to 69c; buckwheat, 58c to 61c; rye, 62c to 65c.

HAY AND STRAW

There is a good steady demand for all of the hay that comes into the market in either a wholesale or a retail way. Quotations are as follow: No. 1, \$14; No. 2, \$9 to \$11; No. 3, \$8 to \$9; baled straw, \$10 to \$12.50. Hay retails on the market at \$18; clover and mixed hay, \$11 to \$14; straw, bundled, \$14 to \$17 and rye straw, \$18 to \$19. The market at Montreal is firm; No. 1, \$14.50 to \$15; No. 2, \$12.50 to \$14; No. 3, \$11 to \$11.50.

HIDES AND WOOL

Quotations for hides are as follow on country markets. Cured, 12c to 14c; green, 12c to 15c; horse hides, 12c to 15c; horse hair, 7c; calf skins, 12c to 18c; lamb skins, 8c to \$1. Prices said on the market here are: No. 1, 15c; No. 2, 14c; No. 3, 12c; calf skins, 17c. Unwashed wool is quoted at 13 1/2c to 15 1/2c; washed, 20c to 24c; rejects, 16c.

POTATOES AND BEANS

Prices are unchanged. Receipts are of slightly better quality and keeping fairly well. Ontario potatoes are quoted 85c out of store and 80c in car lots; Delaware, \$1.10 out of store and 95c in car lots. At Montreal Green Mountains go at 80c to 85c. Good Canadian beans can hardly be had at any price. Primes are quoted at 25.50 to 33 and \$2.10 for hand picked. Few beans are moving at Montreal. Three-pound pickers are selling 22.5c and five to 10-pound pickers, \$2.10 to \$2.35.

EGGS AND POULTRY

The egg market is quieter. Now laid eggs continue very scarce but fresh eggs and cold storage stock are easily obtainable. Wholesale dealers quote cold storage eggs at 50c to 55c; fresh eggs, 35c to 40c and strictly new laid, 40c to 45c. The retail price is 60c to 55c. At Montreal eggs run from 21c for second grades to 30 1/2c for select.

Dressed poultry is in liberal supply, but demand is good as the surplus is being laid away for the holiday rush. Quotations on dressed poultry are as follow:

Live chickens, 18c to 21c; fowl, 15c to 18c; ducks, 15c to 18c; turkeys, 15c to 20c; geese, 5c to 10c; dressed poultry, 20c to 35c; higher; dressed turkeys, 25c to 35c. On the "Farmers' Market" as liberally as heretofore. It is rumored that the first shipment from New Zealand will soon arrive at Montreal, being laid down at prices slightly over 20c a pound. Dealers quote dairy butter at 30c to 37c a pound; creamery prints, 31c to 32c, solids, 28c to 30c and inferior, 25c to 26c. On the retail market choice dairy butter

is characterized by a good steady supply of dairy butter at steady prices. Creamery supplies are not coming in as liberally as heretofore. It is rumored that the first shipment from New Zealand will soon arrive at Montreal, being laid down at prices slightly over 20c a pound. Dealers quote dairy butter at 30c to 37c a pound; creamery prints, 31c to 32c, solids, 28c to 30c and inferior, 25c to 26c. On the retail market choice dairy butter

HOLSTEINS SPRING BROOK STOCK FARM

"ST. KORNDYKE BOON" HERD
THE HERD, this dam, "Fairview Korndyke Boon." Official record, 212 lbs. in 7 days; 15 1/2 lbs. in 30 days. Average test, 4.88 per cent fat, as a junior 4-year-old.

If you want to make money buy a high class bull. Get a son of the richest herd bull in Canada, who is 1/2 per cent pure blood as his sire, "Pontiac Korndyke," the greatest sire of the breed, whose dam is also by the same great sire.

An offering a few choice bulls out of richly bred dams, from 3 to 12 months old. Come and see them.

A. C. HALLMAN
Waterloo Co. Breslau, Ont.

ELMDALE DAIRY HOLSTEINS

A few Females for sale. Calves Yearlings & Cows. 50 head to select. From most of the young stuff sired by Paladin Ormsby "The Champion" bull, Paladin Ormsby and Highland Calamity COWS (12,25).

FRED CARR, BOX 115, ST. THOMAS, ONT.

LYNDALE HOLSTEINS

We are now offering Bulls, nine months old, one from a daughter of Sara Jewel Hengerveld 3rd, A. R. O. 304. His 1st daughter, dam, 1st dam, 2nd dam, 3rd dam, average over 27 lbs butter each in 7 days. The other from a great daughter of De Kol 2nd's Butter Boy 3rd His 3 nearest dam average over 27 1/2 lbs each. We also offer females of any age.

BROWN BROS., - - - LYN, ONT.

LAKEVIEW HOLSTEINS

To make room for the coming crop of calves, we are offering bulls of the rich test breeding at farmers' prices. Grand one of Pieterje Johanna COW, De Kol and of Colantha Johanna Lad, all out of a pair of Merit dams. Come now and get your choice.

E. F. OSLER - BRONTE, ONT.

REGISTERED HOLSTEINS FOR SALE!

I am overstocked. If you want to buy a fine young cow or a car load of them, I can supply you, or if you need a young bull write me.

R. CONNELL, R.R. No. 2, Spencerville, Ont. Greenville Co.

CAMPBELLTOWN HOLSTEIN HERD

Plan to spend your New Year day at the great sale in Tillsonburg, when the Southern Ontario Holsteins Association's Permanent Sale Co. will offer 75 head of the best cattle ever offered the buying public. Watch for our commencement of 15 choice Cows and Heifers. Some of them winners as dairy tests and in the showing ring.

J. KELLEY, TILLSONBURG, ONT.

Three Young Bulls

From my prize-winning Holsteins, sired by a good son of Count Mercena Poehs, in the Record of Performance dairy sires, the Record of Performance dairy sires, who won dairy test at W. F. 1911. Priced low for quick sale. Apply to

R. B. BROCK, BOX 18, JARVIS, ONT.

Whether or Not
You Visit the
Fat Stock

Show
At Guelph

THERE is a matter which merits your attention—namely your Barn and Stable Plans for 1913. Building and remodeling plans ought to be studied out carefully during the winter months so that when spring arrives everything will be well thought out and full preparations made.

**We Give You
Practical Help**

To help you, we place at your command the services of an experienced **Barn Architect**, who is ready to advise you **free of cost to you, and without putting you under any obligation**, concerning Barn and Stable Plans. His training and large experience have helped many a farmer to get better barns and stables (names and addresses of some of these farmers will be cheerfully furnished if you wish to write them.)

The **cost** of alterations and improvements is another thing on which our barn architect is able to instruct you.

**We Invite Inquiries From All Farmers
Who are considering Building or making over Barns and Stables.**

IN this advertisement we are not giving detailed descriptions of the various equipments which go to make up the Louden Line; nor are we saying anything about all the time, money and experience put in to them to make them the most perfect equipments of their kind. The purposes of this advertisement are two:—

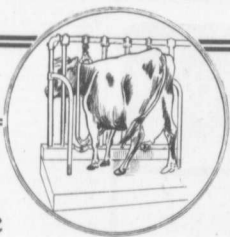
1. To direct the attention of Visitors to Guelph Fat Stock Show its Louden Equipments in the Show building, and the Dairy Stable at the Ontario Agricultural College.
2. To offer all Farmers considering New Barns and Stable Plans the services, free of charge, of our Barn Architect.

In the New Dairy Barn of the Ontario Agricultural College, Louden Steel Stable Equipment, Louden Hay Carriers, and Louden Bird-Proof Barn Door Hangers, are being installed.

Louden Line of Perfect Barn Equipments

A veritable text book on Barn and Stable efficiency and economy. This catalogue sent post free on request.

The Louden Machinery Co.
33 Crimea Street, Guelph



See the
LOUDEN
—LINE OF PERFECT—
BARN EQUIPMENTS

IN ACTUAL USE AT

The Ontario Agricultural College, where the Dairy Stable is equipped with Louden Fixtures.

The New Dairy Barn at the O. A. C. in which the Louden Equipments are being installed.

The Building in which the Fat Stock Show is held.

Our Factory in Guelph, where visitors are always welcome.

**Hundreds
and Hundreds
of Farmers**

ALL over Canada are using Louden Barn Equipments. Their experience in the form of their testimonials should be reassuring to you if you need assurance as to

The economy and advantage of installing Feed and Litter Carriers, Steel Stalls and Stanchions and Hay Tools.

And as to the absolute efficiency of the LOUDEN LINE.

If you can at any time visit our establishment in Guelph to see the Louden Line in the process of manufacture, you will be cordially welcomed.

If you would like to talk the matter over with a Louden Agent tell us so and we will arrange for one of our representatives to call on you.

HOLSTEINS

To be sold at

Unreserved Auction

The property of C. R. GIES, Fairmont Farm, Heidelberg, near Berlin, Ont.



Positively no reserve as farm is sold, and stock must be sold on

TUESDAY, DECEMBER 31st, 1912

My entire herd of 32 head of Holstein-Friesian females and 6 males, will be included in the sale.

Amongst the males will be the First Prize and Junior Champion of the Toronto Exhibition, this year.

These Holsteins are bred from such sires as Aggie Grace Cornucopia Lad, Johanna Rue 4th Lad, Sir Pieterje Posch Deober, etc. (Breeding fully described and extended pedigrees, records etc. given in the catalogue. Ready for you about first week in December.)

On noting my cattle, as catalogued, you will see from their pedigrees that they are from noted strains, mostly all from official bucking. I have always bred my cattle for profitable results, as I have built up a herd that had to pay its way in the pail. Pressure of work on the farm and scarcity of help has made it impossible for me to test them for official records. My cattle are of the type and breeding qualities to insure big records and profitable production.

Ten Months Credit will be given on bankable paper with interest at 6 per cent. per annum.

Cheap rates will be in force on all railroads. Trains will be met at St. Jacob, G. T. R. and Wallestein, C. P. R.

Sale to commence at 1.30 p.m. Catalogues on application to

C. R. GIES
HEIDELBURG, ONTARIO

RICHLY
BRED
HEIFER
CALVES
FOR
SALE



THE
BEST
TYPE
AND
STRAIN
TO GET

8 Holstein Heifers For Sale

THESE CALVES BRED AT SUNNYDALE

SUNNYDALE Farm offers eight (8) daughters of Inka Sylvia Beets Posch—the sire of **May Echo Sylvia**, who made over 21 lbs. butter in 7 days at 1 year and 11 months. She gave over 17,000 lbs. of milk in one year as a two-year-old. She was sold for \$1,000. This bull is also the sire of many more good ones, two-year-olds with records from 15 lbs. to 20 lbs.

He is by the same sire as Jewel Pet Posch, who made 38.58 lbs. butter in 7 days, at 4 years.

These calves' dams are R. O. M. cows, with records from 12 lbs. as two-year-olds, to 18 lbs. as mature cows.

The calves' dams contain the blood of **May Echo, Lulu Keyes, and Helena De Kol's De Kol**.

The calves are from 6 to 8 months old. They are well grown and good individuals and handsome, well marked in color.

We also offer **One Bull eight months old**. His sire is **Francy 3rd's Admiral Ormsby**, who has a list of high record daughters. He is by the same sire as **Jenny Bonerges Ormsby**—32 lbs. butter in 7 days. His dam is **Francy 3rd's**, a cow with a 29 lb. butter record in 7 day-. The calf's dam is **Clintonia Hartog De Kol 3rd**, a 17 lb. two-year-old daughter of a 34 lb. cow.

The records of the calf's two grand-dams and **Aunt, average 31 lbs. butter in 7 days.**

Write for prices, or better still—come and see them.

A. D. FOSTER & SONS

Hallowell Station, C.N.R.
Prince Edward Co.

BLOOMFIELD, ONT.
R. F. D. No. 2.

brings 30c to 35c. Cheese quotations are: Twins, new, 14 3/4c; to 15c; large, 14 1/2c; twins, old, 15 1/4c to 15 1/2c; large, 15c.

LIVE STOCK.

The stimulus of cold weather and the coming Christmas trade is already being felt on the live stock markets. Prices have advanced decidedly this last week, and this in the face of increased receipts. A few extra choice steers have sold as high as \$6.50. Buyers were on hand from outside points and the demand from local butchers was unusually good. The best demand was for well finished cattle and a much larger supply than was on hand would have been readily taken up.

Choice export and butcher cattle range from \$6.25 to \$6.50; med. to good, \$4.50 to \$6 and com. \$3.50 to \$4.25. Choice butcher cows were not in such great demand, and prices remained at the old level, \$5 to \$5.40, with com. to good at \$2.50 to \$5; bulls, \$3 to \$5.50; feeders, \$5.50 to \$5.50; stockers, \$2 to \$3 and canners, \$1.50 to \$3.

Milk cows have advanced about \$10 each, choice ones now being quoted at \$60 to \$90; com. to med., \$50 to \$60 and springers, \$30 to \$90; calves are \$3.75 to \$9.

The sheep market continues steady: Lambs, \$6.40 to \$6.60; light ewes, \$4 to \$4.50; heavy, \$3 to \$3.50; bucks and culls, \$1.50 to \$1.75.

Hogs are higher on the strong market, packers now quoting \$8.10 f.o.b. country points.

Larger demand and larger receipts were the features of the market at Montreal. Choice steers received a bid with the commoner kind going at \$4. Cows sold at \$2.50 to \$5.25; bulls, \$2.50 to \$3.25; canners, \$1.50 to \$2.50. Small steers were in strong demand, lambs going at \$6.25 to \$6.50 and sheep at \$4.

MONTRÉAL HOG MARKET.

Montreal, Saturday, Nov. 30.—The strong feeling in the hog market continues to prevail and prices this week scored a further advance of 25c a cwt., and there is every prospect that they will go still higher next week, owing to the strength of the Western market and the somewhat limited supply coming forward here. The demand from packers is good and active trade was done with sales of selected lots at \$9.25 a cwt., weighed off cars. There was also a stronger feeling in the market for dressed hogs in sympathy with the above, and packers marketed up prices 25c to 50c a cwt., and now slaughter fresh killed stock is selling in a jobbing way at \$12.50 to \$13.

EXPORT BUTTER AND CHEESE.

Montreal, Saturday, Nov. 30.—The final board meetings for this year were held on Thursday at Brockville and Kingston. At Brockville the ruling price paid was 19c for white and colored cheese and at Kingston the best price offered was 10.34c. At these prices the few hundred boxes that were offered were cleaned up and the boards were adjourned to meet again next spring. The week practically winds up the producing season of 1912. In many ways it has been an remarkable, high prices prevailing throughout the greater part of the season and the latter weeks, which usually sell at more money than the summer weeks, were obliged to accept very much lower prices, and the season is closing with the prices lower than they have been for 12 months. The importation of cheese during the winter will depend to a large extent upon the quantity of cheese produced in New Zealand; and if the prognostics are fulfilled, there will be a much increased make there and probably more than can be disposed of in England without a decided reduction in price; and, if this is the case, we shall open up here next spring with prices at a very much lower level than has prevailed for some time.

The market for butter is steady, with prices unchanged. Receipts are coming in in small quantities and are being quickly absorbed and the stored stocks are being steadily reduced by shipments to the West. There will be a large quantity of New Zealand butter imported into this country during the winter months, probably 50,000 to 75,000 coming in from the Pacific port and a fairly large quantity from Montreal, via London. First fresh made creamery is quoted at 30c to 30 1/2c; finest September and October at 30 1/2c to 31c a pound.

CHEESE MARKETS.

Kingston, Nov. 29.—252 boxes boarded; 150 sold at 10.34c.

Brockville, Nov. 29.—1,055 boxes colored and 125 boxes of white. The highest offer, 10 1/2c, was refused. The board adjourned for the season.

HOLSTEINS

HOLSTEINS

No matter what your needs in Holsteins may be, see **RUSSELL**, the live Holstein man.

He is always prepared to furnish anything in Holsteins.

Write, or come and inspect

T. H. RUSSELL Geneva, Ohio U.S.A.

WILLOW BANK HOLSTEINS

A Daughter of Pasture Herms (5442)

and out of Imported Dam. Born April 12th, 1909. Large, straight and nicely marked in calf to a good son of Count Hengerveld Payne De Kol (7077). Also a number of Young Bulls. One nearly ready for service, whose grand sire is Johanna Rue 4th Lad (210) and Tidy Abbehor's Merceus Posch (4391). Prices low.

COLLIER V. ROBBINS, RIVERBEND, ONT
Fenwick Station, T. H. B.

Avondale Farm

HOLSTEINS, CLYDESDALES, YORKSHIRES AND DORSETS

A. C. Hardy - Prop.

To make room for daughters of Prince Hengerveld Pietje we are offering a few females, bred to the greatest bred bull in Canada, also a few extra good yearling rams.

Address all correspondence to:

H. LORNE LOGAN, Manager
Brockville, Ont.

Ourvilla

Holstein Herd

The first 31 lb cow in Canada was developed here. The only herd in Canada that contains a 129½, the 30-day cow. The only herd in Canada where 12 two-year-olds with first calves averaging 17½ lb the butter in 7 days have been developed. Also the only herd in Canada containing 6 junior two-year-olds averaging in R. of P. 23.72 (10 lbs. 56 lbs. butter).

If you want to raise some of this kind secure a bull ready for service or bull calf. Our herd has one bull whose two nearest dams average 21.33 lbs. butter in 7 days.

EDMUND LAIDLAW & SONS,
ELGIN COUNTY, AYLMER, WEST - ONT.

Holsteins

stronger now than ever at

FERNDALE STOCK FARM

Bulls from 1 to 8 mos. old, all sired by **Korzydy King Neillard**, whose dam is 9 nearest dams made 26 lbs. butter in 7 days. We have over 50 head of grade Holstein heifers 15 mos. old, all supplied to be bred. They are nicely marked and of the best condition. Parties wanting a careful selection should inspect this bunch before they are shipped.

CLYDESDALES—We have over 30 head to choose from. Come and see them.

Fierheller Bros.

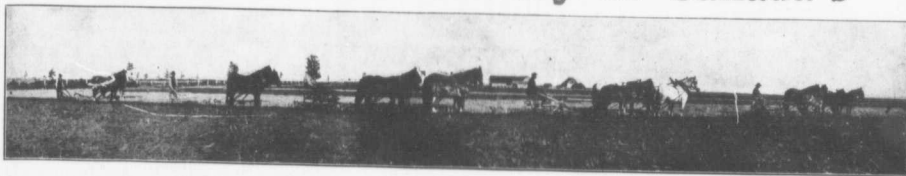
Bell Phone, C.P.R. Station
MT. ELGIN, ONT.

RICH ONES

For Sale or Exchange. Choice Young Sire, one year old, son of Lady Wayne Norine, 22 lbs. butter, 7 days. Sire is grand-dam of more high trading dairy test winners than any other cow in Canada. Dam of two sons with records up to 22 lbs. butter in 7 days and 20,000 lbs. milk in one year. Young Bull, fit for service, out of tested dam, sired by brother of **Pet Posch De Kol**, 38 lbs. butter in 7 days. Champion weekly record cow of Canada. Also, a few Heifers and Calves. Price reasonable.

WM. A. RIFE, HESPELER, ONT.
Nine miles south of Guelph.

The Twentieth Century Is Canada's



Preparing for the Harvest

Do you know that the present rush of settlers to Canada represents a New Settler Every Minute of our waking hours? Have you ever considered what makes Canada such an attractive field for settlement?

The Canada of to-day is a land of Peace and Plenty, a place of Sunshine and Big Crops, a country whose soil spells wheat and out of whose farms thousands are growing rich. Already Canada's per capita wealth is the greatest in the world.



From Bonnie Scotland—Coming to Canada to join Husband and Father who came out a year ago.



From the overcrowded cities of the Mother-country with their limited opportunities, this family has gone to the broad acres and the golden opportunities of Canada—Britain's Oldest and Nearest Colony.

Free Land in the Western Provinces is Still Offered.

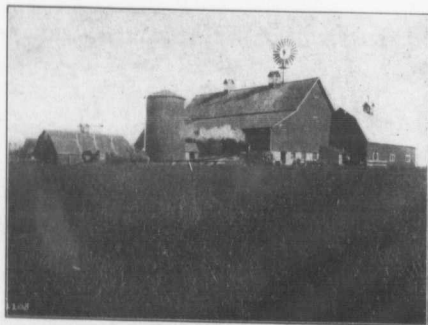
Improved Farms may be Procured at Low Cost.

A Promise of Home with the Prospect of Independence.

Can you afford to miss it?



A Canadian Vineyard



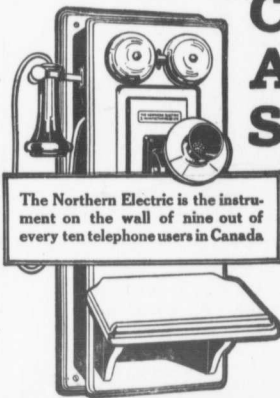
A Comfortable Homestead

For Further Particulars, write to

W. D. SCOTT, Supt. of Immigration
OTTAWA, CANADA, or

J. OBED SMITH, Asst. Supt. of Emigration
11-12 Charing Cross, LONDON, S.W., ENGLAND

WE WANT TO TELL YOU HOW YOUR COMMUNITY CAN OPERATE A SUCCESSFUL TELEPHONE SYSTEM OF ITS OWN



The Northern Electric is the instrument on the wall of nine out of every ten telephone users in Canada.

THE number of rural telephone lines started during the last year has been greater than ever before in the history of Canada. If, indeed, it has not been started already, your own community is bound to have a telephone system, sooner or later. You would have such a system at once, if you and your neighbors only realized how quickly, easily and inexpensively it could be put into operation. You, yourself, can start this system going right away; with the help we offer, you can interest your friends and neighbors and, among you, can organize your own company, erect your own line, install your own instruments, and operate your own self-maintaining telephone system, just as successfully as the largest telephone exchange is operated in the largest city on the continent.

This Bound Volume of 100 Illustrated Pages is FREE

NEVER, since farmers first started installing their own telephone instruments, has there been produced so comprehensive a volume of instructions as our book "How to Build Rural Telephone Lines." This book, printed on good paper, illustrated with photographs and diagrams and bound in stiff, cloth covers, is an invaluable text-book on the subject of constructing telephone lines in the rural districts. Written in plain language by expert telephone engineers, it has been a very costly book to produce. It is really almost too valuable to give away free; we could not afford to distribute it haphazard. However, we have one copy for you.

BUT We Send It Only When You Ask For It

"How to Build Rural Telephone Lines" tells about what other rural telephone companies have done, about company organization, about constructing the line, about installing the instruments, about the materials required, about the instruments themselves, and also even gives the law in regard to wires crossing railways, etc. Chapter after chapter, it goes into each item in detail. Nowhere else are the facts so concisely set forth as they are in this book.

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Coupon
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The
Northern
Electric and
Manufacturing
Company
Limited

Gentlemen:

Please send me FREE, one copy of your 100 page, bound and illustrated book on "How to Build Rural Telephone Lines." 237 460

Name.....

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Montreal

You Can Organize Your Own Company

YOU don't need to know anything about company organization to start a company among your own friends and neighbors. Our book tells all about both mutual and stock companies and shows you, step by step, just exactly how to go about the matter. It shows you how the procedure differs in the various provinces, what the different governments demand of you and what they will do to help you.

You Can Build Every Foot of Your Own Line

NO expert lineman or superintendent of telephone construction is necessary to build the efficient line that you can put up yourself by merely following the detailed instructions given in this book. Any man who can read and who will follow directions with ordinary sense can build his own telephone line. With the instructions that you can give your neighbors after you have read this book, they can erect every pole, place every cross-arm, string every foot of wire and install every instrument. You can easily realize how this means economical construction.

We Will Guide You In Every Step of Organization and Construction

WE are the largest manufacturers of telephones in the Dominion of Canada. Nine out of every ten telephones in use in the country to-day

have been made in our plant. You can readily understand, therefore, that our experts are the master-minds of telephone construction in the Dominion. It's the knowledge of these men that we place at your disposal—it's their expert advice that will guide you in every step.

Let Us Show You How To Get The Movement Started

FARMERS throughout the country are just beginning to realize that they can have telephone connection as well as if they lived in the city. They are tremendously interested in the subject. Most of them have been reading it up in their farm papers. It is only necessary for some one man to come forward with definite knowledge on the subject and say: "Let's get started!" With the information that our book will give you, you can be the man in control of the situation in your community.

Now Is The Time For You To Act—Before Someone Else Does It

WRITE in to us and get this book at once. A self-maintaining telephone system will eventually be started in your community. If the moment is not ripe, the time is fast approaching when it will be, and you owe it to yourself to be informed on the subject, if you want the book send us the coupon.

THE Northern Electric
AND MANUFACTURING CO. LIMITED

Manufacturer and supplier of all apparatus and equipment used in the construction, operation and maintenance of Telephone, Fire Alarm and Electric Railway Plants. Address our nearest house

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