

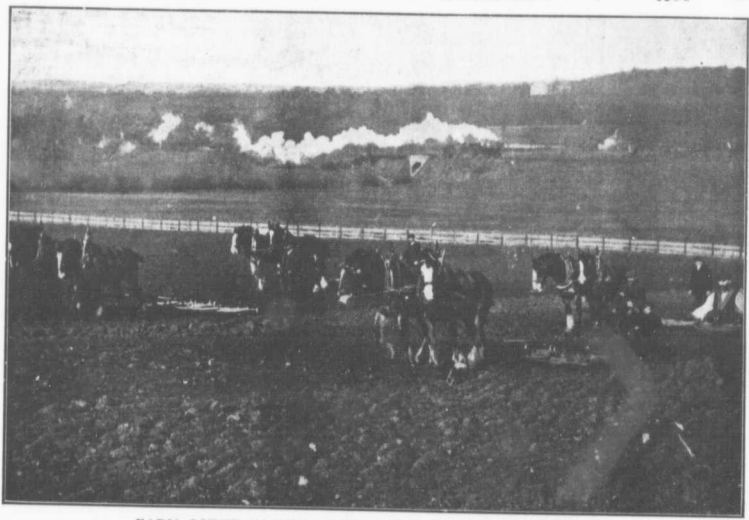
FARM AND DAIRY

RURAL HOME

PETERBORO, ONT.

DECEMBER 7

1911



FARM SCENE IN THE HOME LAND OF THE CLYDESDALE

The fame of Scotland as a live stock breeding country bears strong testimony to the wisdom of specialization in breeding. In Scotland through the united efforts of all the farmers of a community being concentrated on the improvement of some one breed, Ayrshire cattle come from one section of the country, Aberdeen-Angus from another, and the Gallo-way from still another; and the Clydesdale horse is the horse of all Scotland. Such a record in the production of superior live stock has been made possible by "community" breeding. It is only through such community breeding that we in Canada can achieve the highest success as live stock breeders.

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THE REAL REASON WHY BOYS LEAVE THE FARM

The real reason why boys leave the farm is because **FARMING ON THE AVERAGE** does not offer as great opportunities as may be obtained in other lines of endeavor. A few thousand farmers in Ontario whose land is productive, and who are convenient to markets, are doing well, and saving money. Conditions would be awful were they not. On the other hand, **THOUSANDS OF FARMERS WHOSE LAND IS ONLY FAIRLY GOOD, ARE HAVING A STRENUOUS STRUGGLE EVERY YEAR TO MAKE ENDS MEET. SOME ARE NOT SUCCEEDING, THEY ARE STEADILY GOING BEHIND.** In a year when crops are bad, even moderately successful farmers frequently receive a set back from which it takes them two and three years to recover. In such years several thousand farmers give up the struggle and leave for the west, or take up other lines of work that appear to offer them better opportunities. **THIS IS THE MAIN REASON WHY THE RURAL POPULATION OF ONTARIO HAS DECREASED BETWEEN 70,000 AND 100,000 DURING THE PAST TEN YEARS.**

Farmers are sometimes accused—mainly by people not farmers—with being incompetent, with neglecting to take full advantage of their opportunities, and even with being extravagant. Some of them are. The whole truth, however, is this: **THE ECONOMIC LAWS OF THIS COUNTRY ARE AGAINST BOTH THE TOILERS IN THE CITY AND THE PRODUCERS ON OUR FARMS. BOTH ARE CREATING WEALTH THAT OTHER CLASSES IN THE COMMUNITY ARE TAKING FROM THEM.** This is accomplished in ways not readily seen but none the less effective. One of these ways is by means of combines, which charge exorbitant prices for practically everything the farmer and the city worker buys. These combines have become so numerous, of recent years, and so bold in their operations, they can be named by the dozen. It is still difficult to secure inside information furnishing positive proof of how they operate, but even that is now becoming more and more available. **THE EXCESSIVE PRICES COMBINES CHARGE, TAKEN WITH DECREASED PRODUCTION ON OUR FARMS, OFFSET THE INCREASED PRICES THE FARMER IS RECEIVING FOR HIS PRODUCE. THESE COMBINES FLOURISH ONLY BEHIND PROTECTIVE TARIFFS. THE DAY IS COMING WHEN THE GREAT MAJORITY OF OUR FARMERS WILL REALIZE THIS FACT AND WILL ACT ACCORDINGLY.**

ANOTHER GREAT WRONG

ANOTHER GREAT WRONG THAT OUR FARMERS—AND THE WORKINGMEN IN OUR CITIES AS WELL—SUFFER UNDER IS THE FACT THAT THEY CREATE MILLIONS OF DOLLARS OF LAND VALUES EVERY YEAR FROM WHICH OTHER PEOPLE DERIVE ALL THE PROFIT.

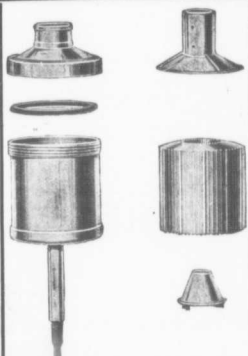
In last week's issue of Farm and Dairy we printed a diagram and article dealing with this matter. We showed that every time a farmer ships a steer or a bushel of grain to Toronto or to any city, he increases the value of land in that city, especially in the business portion of it. Every time, also, that he buys a plow or roofing material or anything from a firm in the city, he increases land values there by creating labor for the people who make or handle such goods. We showed also that between 1909 and 1910 land values in Toronto increased from \$88,090,155 to \$107,573,664 or by \$19,483,509, and that this \$19,483,509 went into the pockets of a comparatively few people, and none of it to the farmers of Ontario who created most of it.

CONCRETE EXAMPLES

Let us give you some concrete examples of how this works out. During the past few years the people of Canada, mainly our farmers, who comprise 66 per cent. of the population, have spent several million dollars out of their taxes to buy land and put up new government offices in the Dominion capital at Ottawa. This has increased immensely the value of every city lot in Ottawa. Land there has been doubling and trebling and quadrupling in value. The few people who own this land or who have been speculating in it have been making in many cases small fortunes in the course of but a few weeks, and even in only a few days. Here is the evidence. Last December, while the farmers' delegation was in Ottawa, Assessment Commissioner Stewart, of Ottawa, published a statement showing that Maderic Landreville, of that city had bought a property for \$6,500 and re-sold it shortly afterwards for \$9,500. Alphonse Landreville had some property that cost \$900. He re-sold it for \$2,250. A small piece of land on Carling avenue that was bought in February, 1910, for \$9,000, was re-sold in November, 1910, for \$14,000. **THUS THE MAN WHO OWNED THIS PIECE OF LAND PUT \$5,000 IN HIS POCKET BY SIMPLY HOLDING THE LAND FOR 10 MONTHS. HOW LONG, MAY WE ASK, WOULD IT TAKE A FARMER TO MAKE \$5,000 CLEAR ON A 100-ACRE FARM?**

A lot on the corner of Arthur and Somerset streets, in Ottawa, which was bought in May, 1909, for practically \$11,000, was re-sold in September, 1910, for \$22,000. This man **THUS PUT \$11,000 OF VALUES THAT THE PEOPLE OF CANADA CREATED, INTO HIS PRIVATE POCKET BY SIMPLY OWNING A PIECE OF LAND FOR 16 MONTHS.**

(Concluded on page 13).



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FARM AND DAIRY & RURAL HOME

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Vol. XXX.

FOR WEEK ENDING DECEMBER 7, 1911

No. 49

COMMUNITY BREEDING - HOW IT WOULD BE OF ADVANTAGE TO CANADIAN FARMER

Chas. F. Whitley, Dairy Division, Ottawa.

Cooperation Between Neighbors can Overcome the Difficulty of Getting High Class Sires for Use in Grading Up Our Dairy Herds. Community Breeding is Proving a Success in Other Countries. Why Not in Canada?

THE topic of cooperative breeding associations has been occasionally referred to in our agricultural press in recent years, but so far very little has been accomplished in the way of organization for the improvement of dairy cattle. To a limited extent our farmers' clubs have taken up the matter, and in a few cases something tangible has been done with sheep and horses; but the vast majority of our dairymen are still without any idea of the value of cooperative effort for definite improvement of their live stock. The



advantages of cooperative breeding are so many and so well defined that this plan should appeal to every dairy farmer.

Community breeding presupposes that every farmer in the district is ambitious and broad-minded enough to desire for his own section of the country a marked and rapid improvement in its live stock. What is difficult of individual achievement is easily accomplished by a small measure of cooperation. It is assumed when we talk of introducing community breeding that the dairyman believes in pure bred sires, for no improvement in the herd can be expected from the "scrub." Possibly, however, the price of the pure bred he would like is prohibitive. Here, immediately, the simple plan of community breeding steps in to help.

COOPERATION FOR QUALITY

Next in importance in starting community breeding, to the necessary education up to an understanding of the advantages to be gained by the use of pure bred sires is that useful virtue, far too little practised in our Dominion, cooperation, which may be applied to the purchase of an excellent male; not a cheap pure bred, be it noted. Never should the low price of an inferior specimen, pure bred or grade, tempt us; the great need is improvement in herd quality so that each individual female may be a profitable milker. The immature, poor bull cannot effect any such improvement; the man who builds for immediate profit and future herd ex-

cellence looks for the good sire even if the cost is high. Let no spider of delusive cheapness weave its web across any corner of our mental vision of this topic.

The inferior or low grade blood can be overcome quickly by fixed purpose in breeding, by the choice pure bred sires of the breed that meets the requirements of the locality. The half-blood can only give half of himself to his offspring, producing only a quarter blood, so that still poorer grades ensue; but with the select pure bred male and the fairly good grade cow there results a half-blood and 50 per cent improvement in the first generation. In the second generation there will be three-quarters blood and 75 per cent improvement, while in the fourth generation there will be not merely a half-blood, but a

of alien blood have been discerned even after 10 and 20 years. There is too much at stake in the modern high-class business of dairying to risk the cheap grade sire, there is no knowing what poorer qualities he will introduce that will take time and expense to eradicate, besides cutting down immediate profits. To use him is to breed down. He is first and last far too expensive a proposition for any real dairyman.

The extra value resulting from the use of the good pure bred dairy sire has been figured out so often that it should not be necessary to dwell on the point. Suffice it to say that if the sire is responsible for only an additional 40 lbs. of butter fat or 1,000 lbs. of milk a cow, the net increase from a herd of 20 cows will be easily \$200.00 a year.

PAY FOR BULL FIRST YEAR

Thus if three or four herds are concerned the price of a first class sire is far more than repaid the first year. The scrub bull, or the dual purpose bull, will not help the individual in any community to such an extra income. Our aim should be at least 300 lbs. of butter a cow annually. Why do so many of our dairymen remain content with 200 or only 180 lbs.?

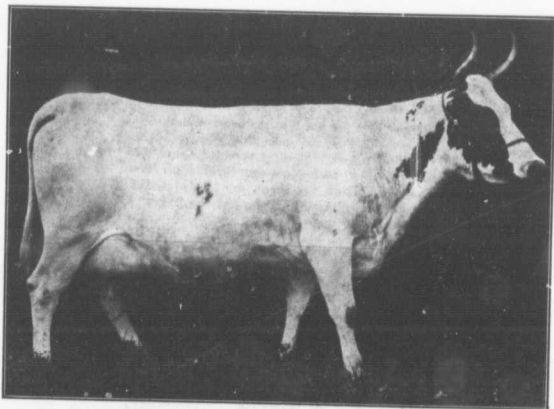
One great advantage to the whole district arising from community breeding is the fact that buyers are attracted. No one buyer wants to travel scores of miles to hunt out or pick up just a few casual good specimens of stock; but as the district gets known for its own breed, there the buyers will flock, knowing they can obtain choice animals in good quantities. This fact is well known in the older countries. No importer here would dream of scouring Hereford for Ayrshires; neither for Guernseys would he go to Durham or Devon.

PRICE PER HEAD WILL INCREASE

Then, too, the price obtained by the community will necessarily be better as the cattle are of higher grade. We may rest assured that as community breeding is practised, that district will get excellent advertising. Practically any county can make a name for itself, can secure a world-wide reputation as a centre for the best type of cattle, just as quickly as this community breeding is taken up in earnest.

Cooperation in this matter should appeal to every dairyman. We all need the help of our fellowmen. It is difficult, tedious and expensive for an individual to build up a name and reputation as a breeder. The organization of several men carries more weight and more power to ac-

(Concluded on page 17)



The New Dairy Queen of the Ayrshire World

Eileen, the Ayrshire cow here illustrated, owned by G. D. Mode, Yankleek Hill, Ont., has established a new record in butter production for the Scotch milk breed. In the past year she has produced 13,778 lbs. of milk and 635 lbs. of butter fat, equal to 747 lbs. of butter. Notice also the great heart girth denoting constitution, and the broad muzzle and well developed middle, denoting feeding capacity. These two points are inseparable from the great dairy producer.

fifteen-sixteenths blood, with an improvement of 93 per cent, or such high grades that, for practical purposes, the females are almost as good as registered stock.

A GREAT DANGER FROM SCRUB SIRES

One good reason why the scrub sire should be rigidly avoided is because of the remarkable working out of the principle of atavism, whereby the traits and functions, often very undesirable, that marked some remote ancestor of the poor sire, will frequently crop out in the bull's offspring. In poultry and swine some curious characteristics

Ayrshire Sires Used for Three Generations

Wm. Wightman, Glengarry Co., Ont.

For three generations we have been using pure bred Ayrshire sires in our herd. The improvement that we have wrought, bringing our herd up from ordinary mongrels to the place where they are uniform in conformation and coloring, and such good producers that last year 23 cows, including the heifers, averaged well over 8,300 lbs. of milk in the year has been due entirely to the introduction of pure blood through the sires used as we have bought no pure bred females. My grandfather started the work, my father continued it, and now I in turn am carrying on the work that they laid down. I am working along the same lines that they followed so successfully.

The most important point in herd improvement is in the selection of the sire. We trace back as far as possible in a sire's ancestry in order to make certain that they are of a good milking strain. One poor sire will destroy the good effects of several high-class ones. We have learned from experience that too much care cannot be taken in tracing up a bull's ancestors. Some years ago I bought an Ayrshire of good appearance, but he was a failure. As soon as I found my mistake I sold him and all his stock. And you may be sure I took more care in the selection of the next one.

RECORDS HELP IN SELECTION

Did a new beginner have the misfortune to get such an animal it would be a great disappointment and, much more, a heavy loss to him. It is easier now, however, to select good animals as most breeders keep individual records, and it is easy to pick the best producers.

A great mistake that many of us make is to allow our good pure bred sires to go to the butcher as soon as we are done with them. One animal that I purchased and used in my herd was from the famous "White Floss." His stock proved to be such a success that when I was through with him he was retained in this locality for breeding purposes until he died, and from him comes some of the best Ayrshire stock in the country.

I cannot understand why so many of our farmers show so little interest in the selection of their sires. There is no place where their poor management is so quickly exposed as at the factory, when the milk records of neighbors are compared. The farmer with good cows will have the largest amount of milk every time, although he has not more cows.

I must here emphasize the benefit that we receive from alfalfa. I find that there is nothing like it for feeding a herd of dairy cattle. We are at the present time milking 26 cows. We keep records of their milk production, and they run from 7,000 to 10,000 lbs. of milk for the milking period of 10 months. This is not due all to breeding. Feeding enters in also. And alfalfa enters largely into the feeding.

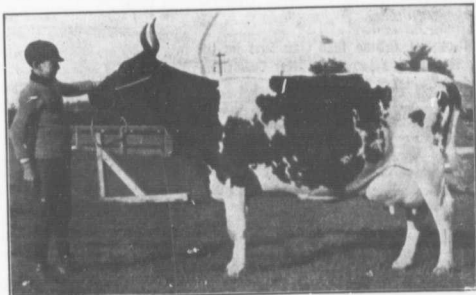
Drying dairy cows in due time is an item of importance. Some cows will take all the time needed for rest without any assistance from us. The persistent milker, however, we must dry six weeks to two months before she freshens anew.

Dry feed, skipping one milking, then two, then three, not stripping dry; those, coupled with careful watching of the udder, will almost invariably effect results easily and safely—J. Dickson, Oregon, U.S.A.

To Develop a Persistent Milker

Wm. Turner, Wentworth Co., Ont.

Our endeavors to develop our dairy heifers into persistent milkers start when the heifer has its first calf. We take great care in milking the heifers, using them as quietly as possible so as not to get them in the habit of kicking. Many a heifer is spoiled during its first year from lack of such care. If the heifer shows signs of drying



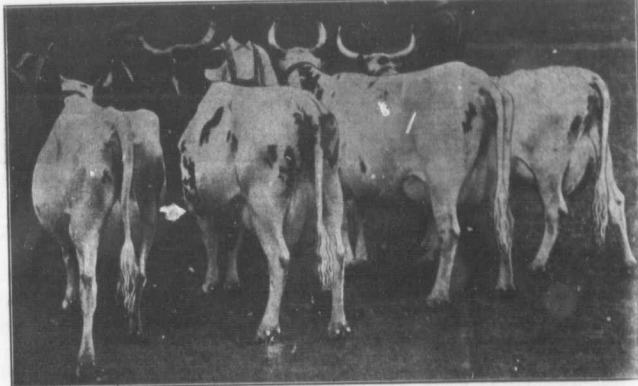
A Fine Combination of Dairy and Breed Type

Auchenbrunn Fannie 9th—23,525—owned by R. R. Ness, Howick, Que., has a show yard record that cannot be beaten in Canada. She was first in her class and champion female of the breed at both Toronto and Ottawa this year. In addition she is a grand dairy cow. Note the large, strong middle, the magnificent udder and large, well placed teats of this cow.

—Photo by an editor of Farm and Dairy.

too soon, we still continue to milk her even if the quantity of milk does not pay for the time spent. We know, however, that we will be doubly repaid during the next period of lactation, for she will then keep up the flow until the proper time to stop.

A cow that has got into the habit of slackening in her milk flow too soon after calving can be made into a good milker by persistent care. We bought a cow four years ago that in her first season of milking was almost dry in six months. We still milked her, however, and she is now a grand milker.



The Type of Producers that are Adding to the Fame of the Ayrshire Breed

The kind of Ayrshires that are bred by D. M. Watt, St. Louis Station, Que., combine good breed type with producing ability to an unusual degree. Notice the grand udders on these cows. Money invested in animals such as these illustrated is better than a bank account—a long way better.

An Expert Herdsman Talks on Calves

Wm. Retson, Herdsman, Agr. Col., N.S.

We have found it the best plan to let the calf suckle the cow for the first two days. This gives the calf what it requires, and puts the udder in good condition. On the third day we teach the calf to drink from the bucket. If it does not take to the milk readily we do not force it to drink. We allow the calf to get thoroughly hungry, and then it will soon drink of its own accord. We find it no harder to teach a calf to drink, after having suckled the dam, than one separated immediately from its mother. On the contrary, the former is in a much stronger condition to learn.

For at least the first two weeks, the calf should be fed on whole milk, and in the case of a somewhat delicate calf, for a week or so longer. We use the milk from the cows giving the lowest percentage of butter fat for calf feeding. If the calf is strong and thrifty, at the end of the second week we commence feeding separated milk, gradually decreasing the whole milk, till, by the time the calf is a month old, it will be entirely fed on skim milk.

TEACH TO EAT GRAIN

In the meantime, however, the calves should be taught to eat grain. They will soon acquire a taste for grain if a handful of oats and bran is put in the corner of the manger. If they are very backward in eating grain we put an older calf in the same stall. This will give them the needed encouragement. The grain should be fed immediately after the calves get their milk. This generally does away with the tendency to suck one another.

We prefer to have the calves running loose in box-stalls, two or three in each stall, if the stalls are large enough. This generally affords them enough exercise during the winter months. If one has the time, however, it is a good plan to turn them out in the yard for an hour or so, but only on very fine days.

LOTS OF FRESH AIR NEEDED

Good ventilation is very essential. The calves require lots of fresh air; but they must be carefully shielded from all draughts.

We have good sweet hay, preferably clover, in a rack within reach of the calves at all times. We have fed calves on a number of the so-called calf meals and other concentrates, but have never found anything better than a mixture of bran, oats, and silage, four parts each of bran and

(Continued on page 19)

The Pla

We farm to the need are going cattle if the line. Who find farmer that man a fair wor I, myself, a good dr work horse by fitted for Heavier, chinery is necessity breed lea matter ho energy a li it cannot in front of plow or can a ho greater we immense a ing. Inside see a great farm work. A loss of w horse will Along w



A Type of The profits bring the high adoption of soon be best horse. The handsome, it breeding of horse used light horses that we will ing horses we now do. The horse bred of the have the be but he has with less eff what we w breeding of good strong demand for motile havi horse to a There is a farmer's dr may be day to use the d ways reduce our driver, in the barn son get sto to drive.

The Place for Heavy and Light Horses

L. K. Shaw, Welland Co., Ont.

We farmers seem to be fairly well informed as to the need of keeping superior dairy cows if we are going in for dairy farming, or superior beef cattle if the production of market beef is our line. When it comes to horses, however, we still find farmers who believe that the only horse for the farmer is the general purpose horse, the one that makes a fair driver, and a fair work horse on the farm. I, myself, would rather have a good driver and then good work horses, each class specially fitted for their own work.

Heavier, wider-working machinery is making it almost a necessity that we farmers breed heavier horses. No matter how much vim and energy a light horse may have it cannot do as much work in front of a double furrow plow or a disc harrow as can a heavier horse, whose greater weight gives him an immense advantage in hauling. Inside of the next 10 or 12 years I expect to see a great change in the type of horses used for farm work. Those of us who will not change our ideas of what constitutes a good type of farm horse will surely be forced down in the scale.

Along with this change in the type of farm



A Type of Horse We Need More Of In Canada

The profitable horse to breed is the draughter. They bring the highest prices when sold, and with the rapid adoption of heavier machinery on our farms they will soon be better adapted to farm work than the lighter horse. The Clydesdale mare here illustrated, Princess Handome, is almost an ideal type of mare for the breeding of high class draughters.

horse used there will be a greater demand for light horses for driving purposes, and I believe that we will see more men making money breeding horses of the roadster and carriage type than we now do.

The horse that we use for driving is a standard bred of the roadster type. Such a horse may not have the beauty of action of the carriage horse, but he has the ability to get over the ground with less effort and at a better pace, and that is what we want. Also if we were to go into the breeding of this class of horses there is always a good strong demand for good roadsters while the demand for high steppers is very fitful, the automobile having taken the place of this class of horse to a large extent.

There is one point in the management of the farmer's driver that I will emphasize. There may be days at a time when we will not need to use the driver. When not in active use we always reduce the amount of grain feed given to our driver, and in fine weather turn him out in the barn yard. If kept on full rations he will soon get stocky up, be very soft, and unpleasant to drive.

Although we expect the demand for drivers to increase, we believe that for years to come the most profitable horse for us farmers to raise will be the heavy draught horse. We are always certain of a good market for this horse, and, what is more, we are more certain to get a market topper.

We know that there is an element of risk. Farmers that we are acquainted with who breed



A Popular Class At Our Fall Fairs

The placing of awards on farmers' two-horse teams is always one of the most popular events in the judging at our fall fairs. The illustration herewith shows a fine class of two-horse teams of Clydesdales drawn up for inspection at the last Galt Horse Show. — Photo by an editor of Farm and Dairy.

light horses do not seem to have more than one in three that is really good. The rest are disposed of at very moderate prices. On the other hand we have never yet failed, when the breeding was right, to get good drafters.

Draft colts are easier to handle. They do not learn bad habits so readily as colts of lighter breeding. They are easier to train. In fact, I believe that most of us are not fitted to train a roadster or carriage horse. It is a skilled art.

We like to drive behind a good goer. We like to do our farm work with heavy horses. When it comes to breeding we will breed the heavy horses and let somebody else take the risk of producing the driver for us.

We Want the Dairy Cow

Henry Glendinning, Ontario Co., Ont.

We have three classes of cows in this country. One class turns feed into milk. Another turns feed into beef, and the third class turns it into bones and hair; perhaps there is a little beef or a little milk, but the biggest part of it goes to bones and hair.

I believe that in Ontario need the first class of cow, the dairy cow. Everywhere farmers are finding out that there is more money to be made in dairying than in beef production. Many of them are making the mistake, however, of trying to produce milk from their beef cattle. It would be just as reasonable for a livery man to start into business with Clydesdale horses. Breed, feed and weed for the dairy cow.



Cattle of Uniform Color and Conformation Possess Peculiar Attractiveness

It is hard to work up much enthusiasm for dairying when we have a mixed lot of cattle that do not present a "taking" appearance. There is pleasure and satisfaction, however, in working with a uniform herd. Who would not take an interest in dairying had they a herd of such cows as may be seen above? These Holsteins are owned by Mr. Lobb, Huron Co., Ont.

Selection and Care of Breeding Sows

R. H. Harding, Middlesex Co., Ont.

The old maxim that "like produces like" is just as true to-day as ever it was, and, generally speaking, it is always true. To prove it, just breed from scrub stock for two or three generations and it will take several generations of most judicious breeding to regain what has been lost. On the proper selection of the foundation of a herd depends largely the success or failure of the hog business; or any other stock business for that matter.

Selecting the breeding sows deserves more attention than very many farmers devote to that end. If improvement is our watchword, as it ought to be, the best should be selected every time. A sow for breeding purposes should be picked out from a large even litter, and, preferably, from a mature sow.

POINTS IN SELECTION

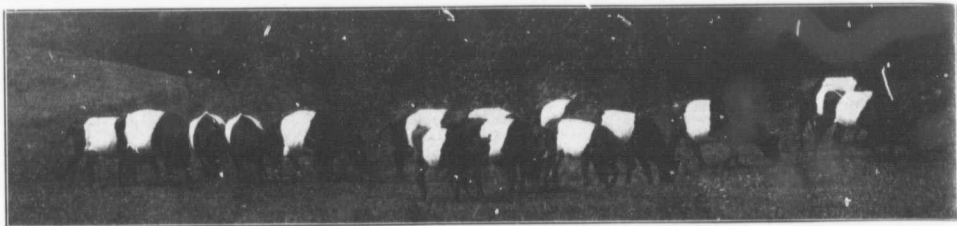
We select long, even, smooth pigs, with 12 or more teats.

This latter is an important point, for a sow cannot properly nurture more than one pig for each developed teat she possesses. We see that the youngster has plenty of lone of good quality (not necessarily coarse but of good shape), with limbs well placed and comparatively straight so that they won't be so liable to break down at the ankles or pasterns when they reach maturity.

Having set aside what we consider our ideal, don't spoil her by feeding her along with the fattening hogs, and thereby develop a fatty conformation rather than the long, deep, muscular frame that is desirable. Better grow her slowly, giving at all times plenty of exercise and not much, if any, grain food. A grass or rape plot, with some house slops or whey, is plenty for summer feed, with alfalfa and roots as a winter feed, with a light grain or meal ration instead of the roots.

DON'T BREED TOO YOUNG

As farrowing time approaches, another common danger is to breed too young. The sow should be 12 to 14 months old when she farrows her first litter. Pigs from immature sows seldom make as strong and robust feeders, and are more susceptible to the common ailments than are pigs from more mature stock, and as so very little decides between profit and loss, it is all important that everything possible should be done to produce healthy stock; not only to produce profits on food consumed, but to enable us to produce a healthy and wholesome article of food. Proper selection and care of the breeding sows is the basis of success in the hog business.



Dutch Belted Cattle Possess a Peculiar Characteristic Attractiveness that makes them Favorites with Rich Men who Farm for Pleasure
The pure bred herd of Dutch Belted cattle here shown is owned by Mr. G. G. Gibbs, Markboro, New Jersey, who is very proud of his attractive cattle. —Photo courtesy Mr. Gibbs.

The Future for Pure Bred Dairy Stock

There is too little pure bred dairy cattle in Canada. After years of educational work by the agricultural press and institute lecturers in making known the benefits to be derived from the use of pure blood in breeding up grade herds, and with the evidence of official tests and the dairy tests at our winter fairs to prove that pure bred dairy females are the better producers, the interest taken in better dairy stock is surprisingly small. We believe that, taking Canada as a whole, there are several times as many scrub dairy sires in use as pure bred sires. In whole sections, even in Ontario, there is not one herd of pure bred dairy cattle nor one pure bred dairy sire. Why have we not made more progress?

We believe that, did farmers know where to get the stock, they would be willing to pay reasonable prices for it and prices that would be remunerative to the average breeder. We also know of many small breeders throughout the country with stock for sale that, did it get into the hands of these farmers, would do much to improve the stock of this country. The chances are, however, that most of this stock is sold through the ordinary channels and never does very much good. These breeders have too small a stock to consider it worth advertising. They do not like to take the risk. How are they going to make it known that they have good stock for sale?

WHAT OTHER COUNTRIES ARE DOING

We have lots of evidence that if farmers get an opportunity to buy stock they will do so. For several years now, the Nova Scotia Government has been improving the sheep of their province by government sales of pure bred rams. Pure bred sires of dairy breeding have also been imported and sold by the N. S. Government at auction. These sales have been a success, and remunerative prices have been paid by the farmers. In several sections of Wisconsin where there are several breeders of the same breed of dairy cattle living in the one county, community sales, in which are offered all of the surplus stock of that section, are conducted with great success. In New Zealand stock breeders' associations have their annual sales and through these sales pure bred live stock is becoming more generally kept in New Zealand than it is in Canada. A start along similar lines has been made in Ontario. The Belleville District Holstein Breeders' Club have held one very successful sale. We understand that the Menie Ayrshire Club are also planning to hold sales for the benefit of the 70 or more breeders of Ayrshires in that district of Ontario.

The average small breeder will not take the risk of spending money in advertising his own stock. Where a large number of breeders combine, the expense of advertising is greatly reduced. Advertising can be made much more effective. As much stock is being offered at once, farmers will attend in the hope of getting pure bred sires at a reasonable price, who would never attend the sale of an individual breeder.

Another point where we believe that we breed-

ers have been making a mistake is that there has been too much jealousy between breeders of different breeds. There is lots of room in this country for all of the recognized breeds of dairy cattle. Did we put as much energy into advertising the merits of pure bred sires as we have into advertising the merits of Holsteins over all other breeds, or Ayrshires over all other breeds, we would be building for a larger and better trade than we now are.

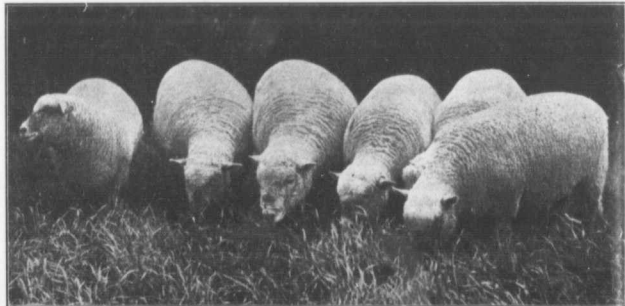
At present the trade in pure bred live stock is largely between breeders. This trade is limited. The other market, yet hardly touched, that is, amongst the general farmers, is unlimited, and it is here that we should direct our efforts to develop a bigger market for our stock. The development of this latter market is, we believe, the hope for the future of the pure bred live stock trade in Canada. What do other breeders say on this subject?—"From Oxford County."

About Breeds of Sheep

J. P. Kemp, Peel Co., Ont.

"Start with the breed you fancy" is the usual advice given to the young breeder just starting into sheep. I do not consider that this advice is always good. "Start in with the breed best adapted to your conditions and make yourself like it" is a much better rule.

In deciding which breed is best suited to our peculiar conditions, we will get valuable pointers by studying the conditions under which the breeds originated. If we have conditions similar to those of that part of the old land from which the Leicester comes, we can be pretty certain that Leicesters will thrive with us. A more general rule is that sheep of the long wool breeds do best on level lying, rich country where they will not have to forage widely on poor pasture. The short and medium wool breeds are adapted to more hilly country.



Busy Making Mutton and Wool And Money For Their Owner

The sheep produces two saleable articles, mutton and wool. Some shepherds claim that the fleece will pay for the keep of the breeding ewe and the lamb is that much clear gain. This would represent a nice profit and many are actually getting it. The six Southdown ewes here illustrated are the property of Col. McEwan Middlesex Co., Ont.

Seed Selection Practical and Profitable

T. G. Raynor, B.S.A., Seed Division, Ottawa

Live stock men say that the art of breeding is epitomized in the word "Selection." In seed improvement there are three kinds of selection, which go hand in hand and spell success, where the principles of plant improvement and development are closely followed.

In the first place, there is plant selection, then mass selection. These two methods imply a multiplying plot and are closely related to each other. In the third place, we have the fanning mill selection, which is generally followed by Ontario farmers and more or less practiced by the farmers of the other provinces.

The experimental stations and those farmers who are members of the Canadian Seed Growers' Association practice the first two methods more or less closely. Those who are giving selection careful consideration not only find it practical but profitable as well. The same laws observed in the improvement of the animal kingdom are operative in the vegetable kingdom to a very large extent, and improvement follows the careful selection of plants as it naturally does in animals. Such improvement may continue for some time, when the improved strain may then be maintained from year to year.

In seed selection a multiplying plot is required, and this corresponds to the use of a pure bred sire in stock improvement. This multiplying plot is usually not less than one-quarter of an acre in size and is sown with the seed threshed from the hand selected plants obtained from mass selection. Such selection is best made when the crop is ready to harvest in the field; but may be made as a matter of convenience from the shock or even after storage in the barn.

Where individual plants are selected, as is frequently done at the experiment stations, the seed

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A Story of Success Through Good Stock*

W. F. Bell, Carleton Co., Ont.

Twenty-five years ago, when we first started in dairying, our herd was of nondescript breeding and the cows were poor producers. The cows we now have, largely pure bred Holsteins, produce from 10,000 to 15,000 lbs. of milk a year per cow. At the request of Farm and Dairy I will give a brief history of my experiences in dairying and how I have managed to double and treble the average production of my herd.

At first we bought our cows as we wanted them, selling the ones that looked like good beef in the spring. Ten years ago, on the advice of a breeder, a pure bred Holstein calf was purchased to head our herd. The first few heifers that we raised were very pleasing to the eye, of uniform color, and their production so far surpasses that of their dams that we decided to give up buying cows altogether and raise our own.

FAT HEIFERS BEST MILKERS

Just here we made a mistake that I would warn others against. We allowed the butchers to pick out the fat heifers, thinking that they could not make good dairy cows. We have since found that a thrifty heifer will flesh up before she calves and again when dry between calves. In the Sep-



It is a Pleasure to Own Young Stock Such as This

Well bred and pure bred young stock is the most it sells for more than common stock and is a source of farming takes on a new meaning when we have such stock around us as are here pictured. These calves are owned by A. E. Hilt, Oxford Co., Ont.

tember 28th issue of Farm and Dairy was a picture of a cow that had this characteristic to a marked extent, but that cow, a grade Holstein, will produce over 11,000 lbs. of milk in her lactation period. The loss of such a cow as this from the herd is hard to calculate in dollars and cents. And we lost several before we discovered our mistake.

The very fact of our grade Holstein cows developing into such splendid milking machines that we were so far ahead of their dams led us to ask ourselves, "Why should not pure bred Holsteins do even better?" The idea so appealed to me that five years ago we bought two pure bred cows at a dispersion sale. They dropped two fine heifer calves in a short time. This was our start off as breeders of pure bred Holsteins.

PATERNAL DISAPPROVAL

This purchase met with the strong disapproval of my father, in that the price was more than four times what we were in the habit of paying for cows. Now after five years the one whose disapproval and censure I received is, if possible, even prouder of my herd than I am myself, as they certainly made good. My father has retired from active farming and is living in a large place near us. When any of his friends call on him, the first thing he wants them to see is my pure bred herd of dairy cattle.

We have since added to our herd by purchase, always being careful in selection. The resulting progeny has shown steady improvement, and we know that it pays to raise cows that give from 10,000 to 15,000 pounds of milk a year.

FEEDING AND BREEDING GO TOGETHER

It was only two years ago that I gained a thorough appreciation of the value of feeding as well

as breeding in the production of milk for profit and in the upbuilding of the herd. I now believe that it is impossible to separate feeding and breeding in the improvement of the dairy herd. Our improvement has been much faster since we combined the two. Our standard of production has been much raised and cows that once passed go straight to the butcher.

We believe that herd improvement is impossible without the help of scales and a Babcock tester. We weigh the milk from all of our cows every milking, and we find that it pays. We not only can locate the unprofitable cows, but if anything is wrong in the feeding it is quickly noticed. We make it a point to find a reasonable explanation for every decrease in the milk flow. The scales and the Babcock test are in the same relation to the dairy cow as the steam gage is to the boiler. In running a steam engine if the pressure changes we immediately rectify by adding fuel or water, as the case may be, to bring the pressure up to normal. So with the cow.

TO OTHER DAIRYMEN

To the dairy farmer who is plodding along with such cows as I myself kept for 15 years I would say: Keep a pure bred bull and breed only from the best cows. Feed and care for them so that they will have a chance to do their best for you.

Be sure they will respond to good feed and care. Do not be discouraged if you do not get as quick results as you expect. Stick to it everlastingly and give your cows as good care as you possibly can, for I have found that good cows will use us just about as we use them.

It is only since we got into pure bred cattle that we have really gotten satisfaction out of our life's work—dairying. We take great interest in improving our dairy herd. They look well to the eye and almost unconsciously we give them better care. We have three-year-old heifers that will give us an average of 1,500 lbs. of milk per month for four months. One of our four-year-olds has given us over 2,000 lbs. of milk in 30 days. Get into pure breeds! It pays! It satisfies!

Mistakes.—The mistakes in breeding that we are making here in Nova Scotia are not peculiar to us, but we are practicing some of them to an alarming extent. Scrub sires predominate. Even when pure bred sires are used the good results that would follow are lost in many sections through lack of consistency in breeding. Many of our bulls are purchased by the agricultural societies. In these societies will be a few men favoring each of the milk breeds. To please all an Ayrshire is purchased one year, a Jersey next, and so on. Or a good bull may be followed by an indifferent sire of the same breed. We are gradually learning, however, and through the good work of the Agricultural College and the Farmers' Institutes we expect to see our province rank with the best.—E.F.E.

Breed More Pure Beef Cattle

John Gardhouse, York Co., Ont.

All kinds of meat are high. There is a great scarcity of even medium quality feeding steers, let alone really good ones. It is very important, therefore, that the farmers of this country should turn their attention more than ever to the breeding of more pure bred beef cattle. Would it not be well for the farmer to stop and figure out for himself the difference he would have in profit by



Pure Bred Intelligence

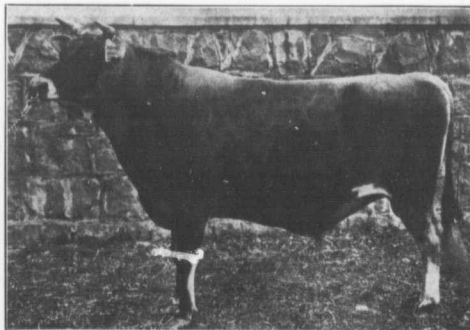
breeding and feeding well bred, first class animals compared to animals such as we too often see in the stables of many of our farmers, as well as on the live stock markets? We have not the time nor the space to go into figures at this time to show why farmers should breed more pure bred beef cattle. That is something any farmer may do for himself. We will only give a few reasons why such a course should be profitable for the farmer and a great benefit to the consumers.

Never in the history of this country has beef making been so sound and profitable a foundation. The outlook for years to come is certainly promising. Meats of all kinds are high in value, and everything points to a continuation of good paying prices to the intelligent breeder and feeder of high class cattle.

We farmers should breed more pure bred beef cattle in order that we may have a more sure foundation from which to breed good feeding steers. It is certainly not enough that we breed pure bred cattle alone. Paper is very little good unless you have the animal. But it is most important that we breed cattle of the right type. And the right type is the pure bred, thick fleshed, early maturing kind.

A first class animal will only occupy one stall!

(Concluded on page 17)



Pure Bred and Well-Bred, A Source of Pleasure To All Who See Him

The Jersey bull here illustrated, Sultana's Golden Jolly, is considered by many the handsomest bull of the breed in America. He is of ideal dairy and beef type. His high merit as an individual is further proof of the old rule of breeding that "Like begets like." Both his sire and dam are among the greatest animals of the breed. He is owned by T. S. Cooper and Sons of Pennsylvania.



Short Course Class in Stock Judging, O. A. College

Short Courses in Agriculture

Up-to-Date Farmers

Are contented with only the best. The Best Seed, Best Stock, Best Fowl, Best Fruit, Best Dairy Products find a ready market at highest prices. Learn how to produce first-class stock and crops by attending the Free Short Courses this winter at the

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Write to-day for our illustrated Short Course Calendar, which gives full particulars regarding these courses.

G. C. CREELMAN, B.S.A., L.L.D.
President

A Land of Opportunity

There is within the Province of Ontario, within one day's journey of Toronto, right next to all the advantages of modern civilization, a land of unbounded possibilities in which during the next few years thousands of farmers will settle and where they will have advantages not obtainable elsewhere. Already many thousands of people have settled in this favored district of Ontario. There has been going into this district, of which we speak, thousands of people.

RAPID INCREASE IN POPULATION
Five years ago there were in New Ontario 2,000 people. To-day there are between 50,000 and 60,000 people in "Greater" Ontario. These people have gone into New Ontario because of the marked advantages of this country made known to them on enquiry by friends, not through any set policy of widespread publicity (which by the way had it been adopted, more people into New Ontario). These people are making a success of their farms and they speak in glowing terms of what the country is doing for them. Through the special series of articles featured over a year ago in Farm and Dairy the information for which was gathered by our special representative, who spent several weeks making first-hand investigations and talking to the farmers of New Ontario, many of our older readers are tolerably familiar with how popular "Greater" Ontario is with the people now residing there, and they know also of some of the features of the country, which make it such an attractive one in which to settle.

SOIL, CLIMATE AND MARKETS
Any person before taking up land in any country must in his own interests consider at least three points about the country, these being the soil, climate and markets. It is the careful consideration of these points and a few others which have taken so many people into the country in preference to any other part of Canada.

The great agricultural section of New Ontario, known as "The Great Clay Belt," contains an estimated area of between 16,000,000 and 20,000,000 acres. This soil is for the most part a sedimentary clay of great thickness and varying all the way from stiff clay to a sandy loam. As a rule it is clay loam, and has a heavy covering of rich black soil.

LAMBTON FARMER SPEAKS OF SOIL
As to the soil of New Ontario, it is interesting to note what Mr. Neil A. Edwards, a former farmer of the county of Lambton, and who has been settled in the north country for eight years, has to say. Referring to the soil of the Temiskaming district, he says: "In all my travels I have not seen a richer soil than we have here. The soil may be properly called clay loam. On the surface of all farms here there is a few inches of black vegetable mould, which, when it is plowed up and assimilated with the rich clay loam, makes one of the best soils that could be produced."

The climatic conditions are to the advantage of New Ontario. The district is situated on a parallel south of Winnipeg and the climate is much to be preferred to that of the west. Hot summers and cold, dry winters are the rule. The dryness of the atmosphere prevents the cold in the winters from being unpleasantly felt, and the snow is light and dry. At times it gets quite hot in summer and the long season of daily sunshine together with the rich soil and plenty of moisture, accounts for the remark-

able growth and productivity for which New Ontario is noted.

CROPS PRODUCE ABUNDANTLY
Crop production in New Ontario is abundant. In all the districts where settlements have been made clover grows luxuriantly; in fact, it is almost a weed and may be found even along roadsides, and wherever the seed is scattered a catch of clover is certain. Red clover and alsike seem to be natural to the country, and during the past two years the older settlers have been experimenting with alfalfa and have had most successful results. Where clover can be grown so successfully and in such quantities as is the case in New Ontario all kinds of cereals may be expected to yield excellent results. And this is the case: Peas, oats, barley and wheat are grown successfully, the quality being exceptional.

In vegetable growing the district of New Ontario excels. One need only to visit a fall fair in the district to be certain on this point. Because of the richness of the soil, potatoes are inclined to become almost too large for the market demands. All kinds of garden stuff do exceptionally well, and for this truck there is a ready market, as we shall here explain.

A READY AND PROFITABLE MARKET
Perhaps in no other part of Ontario can a farmer find a reader of more profitable market than in New Ontario. Extensive lumbering operations, the wonderful mining developments, and the new towns springing



The Reward of Industry in New Ontario

New Ontario is a potato country par excellence. Many predict that in the next few years potatoes will occupy in supplying Old Ontario with potatoes. And potatoes are a profitable crop. Our illustration shows a New Ontario farmer harvesting his potatoes.

up throughout the district make an immediate outlet for everything; prices for all farm and garden products are good.

The country is wooded. But not as old Ontario was in her early days of settlement. The land is comparatively easily cleared, and while clearing his farm the settler can secure immediate revenue from his pulp wood. Work at remunerative wages can be had in the district winter or summer. Lumbering operations are carried on extensively. One may derive revenue from lumbering on his own farm or by going into the camps. Tamarac for railway ties or bridge timber commands ready sale, and spruce and balsam is in demand for boards or for pulp. Ties command a good price. The number of small sawmills that have been built through the country give settlers excellent opportunity to dispose of their logs or have them sawn into lumber for their own use.

EXCELLENT TRANSPORTATION FACILITIES
One of the greatest advantages that New Ontario offers to her settlers is in the matter of transportation facilities. In New Ontario the railway is within easy reach of the land, which is so fertile and which is to be had on such easy terms as to be a fact. There is no going in to settle many miles from a railroad as is the case
(Concluded on page 12)

FARM

Fertilizer
I have been using Maritime potash for large use of sandy loam, and for potato, and suggest that - A. G. SIMON
The success of the grower is due to conditions rather than either artificial fertilizers. I use considerable fertilizer on potatoes and the Maritime use of commercial kind produces better results than any other I have used. If it is desired to use fertilizer of

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FARM MANAGEMENT

Fertilizers For Potatoes

I have been told that the success of the Maritime potato growers is due to their large use of fertilizers. We have land, a sandy loam, that we think would be ideal for potatoes. This land is in a fair state of fertility. What fertilizers would you suggest that I try on this soil next year?
—A. G. Simcoe, Ont.

The success of the Maritime potato grower is due to climatic and soil conditions rather than to the use of either abundant or special commercial fertilizers. True, many farmers do use considerable quantities of commercial fertilizers of a special kind, but potatoes can be grown successfully in the Maritime Provinces without the use of commercial fertilizers of any kind provided the soil is in good condition, due to the use of clover, barnyard manure, good cultivation and right rotations.

If it is desired to try a commercial fertilizer of some kind, probably the

best to apply would be a fertilizer carrying three per cent to four per cent nitrogen, six per cent to eight per cent phosphoric acid and eight per cent to 10 per cent potash, at the rate of from 500 lbs. to 600 lbs. an acre.

A suitable mixture would be: 200 lbs. sulphate of potash, 400 lbs. acid phosphate, 125 lbs. nitrate of soda.

If 10 tons of barnyard manure, or thereabouts, were applied per acre, the application of commercial fertilizers should be reduced by about one-third.—J. H. G.

Treatment of Muskeg

I have a piece of muskeg land. If the moss is burnt off and a top dressing of lime harrowed in, would it be likely to grow good timothy and clover? The water could be kept down 12 inches below the surface.—H. F. G., New Ontario.

On the muskeg in question it is probable that timothy and clover would do well without lime if the moss is burnt off. Such soils vary so much, however, that it is impossible to say what they will do without trying them. Chemical analysis fails in many

cases to show what treatment is necessary to secure good results from such areas. The only way is to test by cropping. In seeding down be sure to roll both before and after the grass seeding if the soil is very open and dry.—J. H. G.

Sainfoin for Brush Land

I have 10 acres of brush land, clay and clayey loam, on which small poplars and willows have grown. I shall not be able to get this land plowed in the spring of 1912. If I harrowed it with the disc harrow and spring tooth harrow, or with the spring tooth harrow alone, would I be able to get a catch of sainfoin clover? Would it grow high enough in 1912 to cut for hay? What quantity of seed per acre would be required? How would a sainfoin do on land which is all sand or on stony land? How much a ton should green corn be worth in the fall?—G. F. H., Thunder Bay Dist., Ont.

Sainfoin is not likely to do well under such conditions as you describe. Sainfoin does not do well anywhere in Canada, excepting, possibly, in some small circumscribed areas in South-Western Ontario and in some parts of British Columbia. The land describ-

ed might, however, be seeded down in the spring to the following mixture, and a good crop confidently expected the following year: Red clover, 10 lbs.; alsike, two pounds; timothy, 12 lbs. per acre. If it is desirable to get a crop in 1912 off the field in question, then it would be advisable to sow oats, after giving the land a thorough good ripping up with disc and spring tooth harrows. The mixture given above would also be the best mixture for the sandy, stony field mentioned.

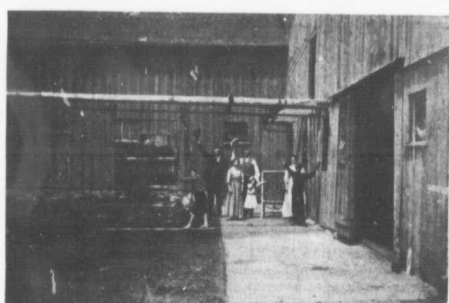
Green corn standing in the field with ears well formed and too far advanced to be fit to cook is, or should be, worth \$1.50 to \$2.00 a ton, according to the price of other feeds that season.—J. H. G.

One reason why a great many people are afraid to try alfalfa is because the process of inoculating the soil is a new and sometimes a difficult one. If a field that has been in alfalfa is near at hand from which soil containing alfalfa bacteria can be obtained inoculation is not very difficult.—Geo. F. Marsh, Grey Co., Ont.

HARD WORK MADE EASY!



200 lbs. is mighty hard work on a slippery plank for a man. Note the condition of the barnyard caused by the manure being piled near the barn. It makes a disagreeable yard and an unsanitary, bad-smelling stable.



1,000 lbs. is easy work for a boy when it is in a BT Litter Carrier. On a strong level overhead steel track it is easy to run the manure a good distance away from the barn, where it can be dumped either on a pile or directly into a wagon.

Cleaning out stables is one of the hardest and most disagreeable jobs on the farm. With a BT Litter Carrier you can take five times as much manure at a trip as with a barrow, and the Carrier is so easily handled that a boy can do the work. Surely that is better than making five trips through the mud and snow. No planks to lay—no paths to shovel—you have always a solid overhead track to run on. Decide now to have a BT Litter carrier to help you. You will appreciate it every day. No other machine on the farm is used so many days of the year.

A GOOD PAYING INVESTMENT

A Litter Carrier is a permanent investment. Running as it does on a level overhead track, there is nothing whatever to go wrong with it. We guarantee the BT Litter Carrier absolutely for five years. Other farm machinery is guaranteed for one year only. The BT Litter Carrier will last for 50 years. If there are any defects, in fact, most of the firms change their Carrier every year, and they will have to keep on changing for they simply cannot possibly get around the patented points on the BT Litter Carrier. Get our catalogue and see why the BT Litter Carrier is such a success. When you understand the different styles, you would not take any other Litter Carrier at any price.

BUY A BT LITTER CARRIER

More BT LITTER CARRIERS were sold last year in Canada than all other makes combined. Here are some of the reasons why:

The BT Litter Carrier is the simplest in construction and more heavily built. It weighs 50 lbs. more than the next heaviest. It has no gearing, coops or ratchet.

Double purchase is used in lifting. It goes up easily. There are no worm gears to wear out.

Large wheels on double roller arms run on the track, which mean steady and easy running.

The Carrier is windlassed by a crank wheel. There is no noise and rattle as with a chainlift.

The crank wheel never comes in contact with the box, so that it always remains clean for windlassing and also to shove the Carrier along the track by.

The bucket is made of 18-gauge galvanized steel—four gauges heavier than others.

The track is 2 inches in depth—next deepest is only 1 1/2 inches. The BT Litter Carrier Track will carry a much bigger load than any other. It is also easier to erect, as the hangers will suit any style of ceiling.

It costs no more than others.

Write and get our prices, as now is the best time for installing a Litter Carrier, and we will make you a special proposition at the present time.

It will pay you to write us now. Fill out the coupon before you forget. You will be surprised how cheaply you can put in a BT Litter Carrier.

Fill out the coupon below at once and get our book describing the BT Litter Carrier and our prices. The Book tells how a Carrier should be erected.

BEATTY BROS.

Fergus, 1608 Canada

Kindly send me (free) your book on Litter Carrier and prices. If there are any defects, I will need about.....ft. of track And expect to put in a Litter Carrier about..... Will you need any steel stalls or stanchions this year?.....

If you indicate that you will need stanchions we will be pleased to send you (free) our catalogue and prices on them.

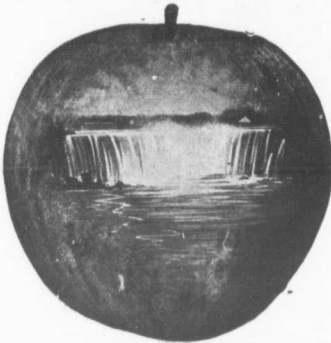
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We also build Steel Stalls and Cow Stanchions and all kinds of Hay Carrier Goods.

BEATTY BROS., FERGUS, CANADA



Spraying Pays

This was fully demonstrated at the Ontario Fruit Growers' Convention and Exhibition held in Toronto, November 14th to 18th.

The beautiful exhibits of NORTHUMBERLAND and DURHAM, NORFOLK, LAMBERTON, ONTARIO, BRANT, WENTWORTH, ELGIN, GEORGIAN BAY and PRINCE EDWARD COUNTIES could not be excelled anywhere in the world.

Such Fruit Growing has been made possible because of the use of

Niagara Lime-Sulphur and Arsenate of Lead

All these Associations use it. Nearly every prominent Fruit Grower in Ontario uses it.

THERE IS A REASON WHY.

Niagara is the only absolutely reliable Spray. It is made right and stays right. It carries the highest analysis. It always gives results.

Ask for our book on "SPRAYS AND HOW TO USE THEM."

Spray Pumps

We have a complete line of all sizes, suitable for any orchard.

Barrel pumps—high-powered hand pumps. Power pumps in 1, 2, and 3 cylinders, fitted with 1 1/2, 2 1/2, and 3 1/2 h.p. engines.

Our pumps are noted for their durability, simplicity, and high pressure.

Let us demonstrate them to you.

—Ask for our Catalogue—

We are headquarters for everything a fruit grower needs:

Lime-Sulphur	Raw Sulphur	Spray Pumps	High-pressure Hose
Arsenate of Lead	Gasoline Engines	Hand and Power	Spray Rods
	Nozzles	Accessories	

NIAGARA BRAND SPRAY CO., Limited.

Burlington, Ontario.

Our Other Factories

- NIAGARA SPRAY CO. of N.S. Kentville, N.S.
- NIAGARA SPRAYER CO. Middleville, N.S.
- HOOD RIVER SPRAY MFG. CO. Hood River, Ore.
- OREGON SPRAY CO. Portland, Ore.
- BEAN SPRAY CO. Cleveland, Ohio.
- MEDFORD SPRAY CO. Medford, Ore.
- NIAGARA BRAND SPRAY CO. Trenton, Ont.

HORTICULTURE

Lessons of the Season

Robt. Thompson, Lincoln Co., Ont.
The greater interest taken in spraying has perhaps been the greatest forward advance in orcharding this season. Ten per cent more apple orchards were thoroughly sprayed than in any previous season. The work being done more intelligently, was, therefore, more effective. Every orchard of the tender fruits was sprayed in the dormant state.

Another step in advance was the better cultivation. In all orchards where good cultivation was followed the intense heat and long drought had very little effect in decreasing the crop. The healthy appearance of all these orchards as one drove along the roads was very noticeable. Many are already enquiring as to pumps and spray material for another season.

Orchard and Garden Notes

When cleaning the stove pipes don't forget that chimney soot is excellent fertilizer.

In all sections of Canada the winters are so severe to make fall pruning safe. Better wait until next March.

Were all windfalls collected regularly we would soon be rid of the ever-increasing pest, the railroad worm.

The day of the barrel is passing. At the Horticultural Show there were 3,000 boxes and only 71 barrels.

Straw manure, straw or marsh hay, make excellent mulches for strawberries. Spruce boughs are also good where they can be easily obtained.

Be sure that the mulch for your Lerry patch is not polluted with weed seeds. Every seed there means that much greater expense and that much fewer berries next summer.

Orchard Progress in Elgin Co.

J. A. Webster, Elgin Co., Ont.
The agitation for improved orchard practice is bearing fruit. Fruit growers here are waking up. With the exception of hail affected crops, the fruit this year is of better quality. Many growers are spraying, pruning, and cultivating more intensively than ever. A good many spraying outfits have been purchased in the last two or three years. Greater activity is being evinced in the planting of new orchards. Two or three growers are planting extensively.

Apple growers are watching the results gotten by progressive growers and are falling in line by pruning, cultivating, and spraying, and refusing to lease their orchards.

I would like to see our Provincial Government devise a satisfactory system of cooperation in handling fruit and show growers how to proceed to adopt it. Our growers are willing to cooperate if a safe and sane method of proceeding is recommended and shown to them. Why not through our District Representatives?

The poorest crop to grow in a young orchard is a grain crop.—P. J. Carey, Dominion Fruit Inspector, Toronto, Ont.

Increased Land Values

The value of farm lands in favorable sections can be increased in some cases as much as 1,000 per cent. by planting to orchard. In the Annapolis Valley, N.S., ordinary farm lands can be purchased at from \$50 to \$100 an acre. The land on adjoining farms, which was set 12 or 15 years ago to orchards, is worth from \$500 to \$1,000 an acre. It was eight to 10 years after setting before these orchards returned a profit, but small fruits that were grown on the land in the meantime paid interest on the investment in land from the first year the orchard was set.

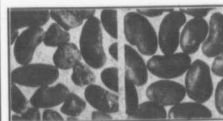
In British Columbia land that a few years ago was worth only a few dollars an acre, is now valued as high as \$300.00, and the average orchard set to apples is worth at least \$500 an acre.

The same improvements in land values are to be seen in Ontario through the planting of orchards. In the Niagara district the setting of peach orchards has increased the value of the land several hundred per cent.

Bearing apple orchards in many parts of the province can not be purchased for \$500 an acre, and these are on land that, planted to ordinary farm crops, would not be worth more than from \$50 to \$80.

KEITH'S SEEDS

Are Seeds of Quality



Good Seed Indifferent Seed
This cut shows imperfections not apparent to the naked eye. Which would you prefer to buy?

BEFORE YOU PURCHASE your seeds for the coming season secure our catalogue and send for our free samples.

We cannot expect every one to come and visit us at our warehouse. We can, however, send you our samples. Then you can compare our seeds with what you can get elsewhere.

Don't take any chance on your seeds and seed grain. Inferior seed has been the ruin of many farms.

Send for our free samples of Alfalfa Clover, Red and Alsike Clover, Timothy Seed.

Seeds will be higher next spring. It'll pay you to make your selection and to get in your stock early. Write us to-day about the seeds you'll want this coming season.

GEO. KEITH & SON SEED MERCHANTS
142 King Street, E.
TORONTO - ONT.

PERFECT Maple Evaporator



Price low—quality high—product the best possible—the kind you like—strip—it retains its maple taste—all unnecessary expense and middlemen's profits cut out. Sold at the lowest price the man can buy. Every one can appreciate. Write for pamphlets and recommends. Do it now.

Steel Trough & Machine Co., Tweed, Ont.

POULTRY YARD

My Best Breed

J. Wesley Bean, *Haldimand Co., Ont.*
 The best breed of poultry, like the best wife, is not a product of the imagination. It has no existence in reality. The best breed, nevertheless, is very common, and the reader of this article has birds of this variety in his yards. The best breed is a matter of choice, of taste, and of fancy. In short, the best breed is the one you like best, the one you are most interested in, and the one to which you will give the most and the best attention.

The best kept fowls are always the most profitable, as well as the most beautiful. With so many varieties of pure bred fowls to choose from, no one has ever grown even moderately enthusiastic over scrubs or mongrels. But well kept mongrels are much better than ill-treated, take-care-of-themselves pure breeds; they look better, feel better, and pay better, in eggs and in meat. In proper hands, all kinds and breeds of poultry have proved profitable.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER
FOR SALE—Choice Rhode Island Red cockerels, \$1.00 each.—J. H. Mannell, Springfield, Ont.

FOR SALE—Pure bred mammoth bronze turkeys; Barred Plymouth Rock cockerels; prices right.—W. T. Ferguson, Spencerville, Ontario.

BRONZE TURKEYS and Silver Grey Dorkings—grand birds—for sale. Apply to W. Stewart and Son, Menlo, Ont.

PURE BRED WHITE LEGHORNS Six cockerels, 50c each. Twenty-four pullets, 75c each, or six pullets, one cockerel, not related, \$4.15. Twelve one-year-old hens, 75c each, heavy laying strains.—A. Lawson, Trenton, Ont.

HENS LAY WELL When provided with Crushed Oyster Shell, Mica Cracked Grit Bone Meal, Beef Scrap, Beef Meal, other feed and reasonable attention, are bound to lay well. Get what you require of these feeds from

G. A. GILLESPIE
 Poultry and Dairy Supplies - Peterboro, Ont.

Mr. Farmer! It is time you were giving that boy something to keep him interested in the farm. Give him some pure bred chickens or a pure bred Yorkshire pig for a Xmas present. We have them at the right prices.
 1 Barred Rock Cockerel for \$1.00.
 1 B.R. Cockerel and 3 Pullets, \$3.00.
 One Setting of (Barred Rock) Eggs for 75 cents.

Write us about it.
Solo S. Gehman, Waterloo, Ont.

Live and Dressed POULTRY WANTED!

We are now starting to pack poultry for the WESTERN CANADA Christmas Markets

As soon as YOUR birds are ready we will buy them. **FREED** is dear this year and there will be nothing gained by holding. Write **TODAY** for our WEEKLY POULTRY LETTER if you live West of Toronto and have poultry to sell. We supply Crates and Guarantee Prices **F.O.B. Your Nearest Station.**

We pay a special price for **MILK-FED, CRATE-FATTENED CHICKENS**
 "Canada's Leading Poultry House"
FLAVELLE-SILVERWOOD, LTD.
 LONDON, ONT.

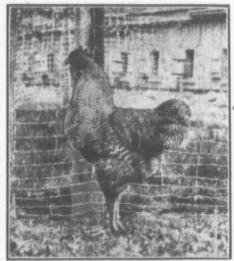
ter than ill-treated, take-care-of-themselves pure breeds; they look better, feel better, and pay better, in eggs and in meat. In proper hands, all kinds and breeds of poultry have proved profitable.

But every man to his taste. One prefers the heavy Brahmas, another is sure he can do better with the light Leghorns or Hamburgs, while a third is just as certain that a breed of medium weight like the Rocks, or Waudettes, or Rhode Island Red, is the ideal breed. So "let every man be fully persuaded in his own mind." Some naturally have an eye for beauty, and are attracted by the beauty of feather; others again look toward the egg basket, and still others think more of the meat, while a fourth class prefers a combination, as far as possible, of all three qualities. So "you pay your money and take your choice."

Success lies in the raising of poultry rather than in the poultry raised. And this is the secret of all success in all lines of activity.

Cooperative Marketing Upheld

Peter Gilchrist, Ontario Co., Ont.
 The cooperative system of marketing eggs as practised in our neighborhood has much to commend it over the old system, or lack of system.



The Type For the Farmer

The Barred Rock cockerel here illustrated is a splendid specimen of the type the farmer will find most profitable—utility fowls that combine egg laying and meat producing traits. This bird is owned at the Ontario Agricultural College.

The waste through bad eggs is avoided, the business is carried on at a cash basis, and we are paid weekly by cheque. From our experiences we would advise farmers in other sections where a fair quantity of eggs are produced by all means to market them in a cooperative way.

Through our egg circles we get from two to five cents a dozen in advance of ordinary wholesale prices. We have not yet marketed our eggs in this manner for years, but we are very favorably impressed with the system and the members on the whole are well satisfied with the circles method of doing business. We are all lending our assistance to make the movement a success, and we believe that the future of cooperative marketing is assured.

Winter eggs, when the markets are high, is the reward we receive for faithful attention to our flock.

Canadians on Top.—Macdonald College was first, Manitoba Agricultural College second, and Ontario Agricultural College fourth in the great judging competition held at the International Live Stock Show at Chicago last week. The competition was open to the world. Canadians carried off 70 per cent of the awards. This is the first year Macdonald College has entered a team in the competition.

STRICTLY NEW LAID EGGS We are open for shipments of Strictly New Laid Eggs, and will pay highest market prices for the genuine article.

HENRY GATEHOUSE
 Fish, Game, Poultry, Eggs and Vegetables
 346-352 West Dorchester Street, MONTREAL

FURS LIVE POULTRY

For best results ship your Live Poultry to us, also your Dressed Poultry, Butter and Eggs. Crates Supplied. Prompt Returns

The DAVIES Co. Ltd.
 Wm. M. DAVIES, Toronto

FEATHERS WANTED
 We pay highest prices for all kinds of Feathers, Fur, Hides, Wool, Tallow, Bone-wax, etc. Prompt returns. Send for Price List.
CANADA FUR AND FEATHER CO
 445 Ontario St. E., Montreal, Que.

FOW! A Pair of Pure Breeds will be given you free in return for only four New Subscriptions to Farm and Dairy, each taken at only \$1 a year. Tell us which variety you would like.
 FARM AND DAIRY, Peterboro, Ont

INTERNATIONAL POULTRY FOOD
 is a marvellous egg-producer. It often doubles the number of eggs—makes hens lay all winter—and gives you plenty of eggs when they are selling in the cities for 50c. to 60c. a dozen.

HENS LAY RIGHT IF FED RIGHT
 The big men in the poultry business—those who are making big money—will tell you that **INTERNATIONAL POULTRY FOOD** is the best. Chickens Cholera—saves the little chicks—keeps the fowls strong and vigorous—and is matchless to fatten fowls on the market.
 You need it if you want to make money out of your hens. It costs your dealer—50c., 50c. and \$1 per case. It costs you only 25c. per case. It gives you a hundred chicks for 12 boxes. **INTERNATIONAL ROUP CURE** is sold in a 50c. each 4-ounce tin to cure.

International Stock Feed Co., Limited
 TORONTO, ONT.

Peerless Jr Poultry Fence
Close enough to keep chickens in. Strong enough to keep the cattle out.
Saves Expense

PEERLESS JUNIOR Poultry Fence will do all you wish of a poultry fence and will do much more. It is built close enough to keep the chickens in, but it is also built strong, rigid and springy. Those heavy, hard steel top and bottom wires, together with intermediate laterals, will take care of a carelessly backed wagon, or an unruly animal and spring back into perfect shape again. It is the most handsome and most effective poultry fence on the market. At every intersection the wires are firmly held together by the never-slip **PEERLESS Lock**.

The Fence That Saves Expense
 because it never needs repairs. It is the cheapest to put up, too. It is stretched up like a field fence. More than half the price can be saved in posts and lumber alone, as required by some other poultry fences. Write to-day for our printed matter. It tells you how to get your full money's worth in fences. We build fences for every purpose.

BANKWELL HOXIE WIRE FENCE CO., Limited
 Dept. H
WINNIPEG, MAN. HAMILTON, ONT.

ESTABLISHED 1856

Simmers' Annual Seed Catalogue for 1912

Contains a fully illustrated and descriptive list of up-to-date varieties of **Field Seeds, Garden and Flower Seeds, Plants, Bulbs, Garden Tools**, etc., also a great deal of valuable information that will assist you in making up your requirements for the Farm or Garden.

We give you the benefit of our long experience in the seed business, extending over more than half a century, and you can rely on getting just what you order, and everything of the very best quality obtainable.

Write for it. It will be mailed in January.

J. A. Simmers
Limited
SEEDS - BULBS - PLANTS
TORONTO, ONT.

Are you anxious to save Time and Money on the Work you are doing on your Farm at present and to get Larger Crops from your Farm or Orchard? If so, let us send you Free of Charge our Pamphlets on the use of

STUMPING POWDERS

USED FOR

REMOVING STUMPS AND BOULDERS
DIGGING WELLS AND DITCHES
PLANTING AND CULTIVATING ORCHARDS
BREAKING HARD PAN, SHALE or CLAY SUBSOILS, Etc., Etc.

Figure yourself what Clearing your Farm is costing now or what you are losing in crops through not clearing

Write Us About Arranging Demonstrations

CANADIAN EXPLOSIVES, LIMITED
MONTREAL, P.Q.

CITY MILK SUPPLY DEPARTMENT

Retailing Milk and Cream*

Jno. Michels, Milwaukee, U.S.A.
To be successful in the marketing of either milk or cream requires a high degree of cleanliness and cold. The man who can furnish a clean, sweet cream from healthy cows these days is assured of a good market.

One thing that should be remembered in the marketing of milk and cream is the fact that where a reasonably good price can be received for the cream, it is an advantage to sell cream rather than the whole milk.



Pure Bred Holstein Producers on a Wentworth County Farm

Starting with Holstein grades, Mr. S. Lemon, of Wentworth Co., Ont., has worked into the splendid Holstein herd here shown. The nine cows that he has entered in R. of F. work have all qualified with satisfactory margins. Notice the deep bodies that indicate the great feeding capacity of these cows. Mr. Lemon's success should be a stimulant to young breeders with grade herds who are working towards pure-bred.

Photo. by an Editor of Farm and Dairy.

The matter of disposing of the skim milk is something that should be considered very carefully by all milk producers. All are agreed that to raise the best calves and pigs on the farm requires a certain amount of skim milk, and frequently what the producer who retails milk secures in the way of extra prices is in time counterbalanced by the loss of the skim milk.

SKIM MILK CONTAINS FERTILITY

Aside from the importance of skim milk as a feed for the successful rear-

*Extract from an address before the American Dairy Farmers' Convention, held recently in Chicago. Mr. Michels is editor of the Butter, Cheese and Egg Journal.

ing of calves and pigs upon the farm, we should not lose sight of the fact that skim milk also contains practically all the fertilizing constituents found in milk. These constituents alone easily have a value of 10 cts. a cwt. of skim milk.

It seems hardly necessary at this late date to call attention to the objectionable practice of retailing milk from the cans. All milk for retail trade should be bottled. The old method of hauling milk to the city in five, eight or 10 gallon cans and removing each patron's allowance by means of a dipper or faucet, has been found so objectionable that the practice has been largely abandoned.

OBJECTIONS TO CAN DELIVERY

The principal objections to this method are: (1) The admission of

dust and bacteria to the milk while measuring it; (2) the use of unsterilized milk vessels by consumers; (3) exposure of the vessels to dust while on the steps of the consumers; (4) the use of unclean vessels by milkmen in measuring each customer's share; (5) lack of uniformity in the milk, especially if removed from the cans by means of a faucet, in which case the first drawn milk is likely to be lowest in fat content; and (6) the possibility of drivers tampering with the milk.

Heifers Saved from Butcher

C. F. Witley, in Charge of Records

The importance of keeping samples and having the milk tested regularly to determine the quantity of butter fat produced by each cow in the herd is quite as important as to know the quantity of milk given by each animal. The following are the returns from two-year-old heifers in the same herd during the months of September and October at the Kensington, P.E.I., Dairy Record Centre, conducted under the direction of the Dairy Division, Ottawa:

Cow.	Lbs. milk.	Test.	Lbs. fat.	But at 50c
A	1,475	4.3	63.8	\$31.90
B	1,400	2.7	37.8	8.94
C	1,330	2.9	38.5	9.62
D	1,105	4.0	44.6	\$22.30

While A produced 370 lbs. more milk than D, the milk contained 1.3 lbs. less of butter fat. B, with 295 lbs. more of milk, had 6.8 lbs. less of butter fat to her credit, a difference of \$1.70 in the value of butter fat in favor of D. C, with 225 lbs. more milk, returned her owner \$1.53 worth of butter fat less than did D.

These four heifers freshened about the same time, and are all half sisters and from a pure bred sire. A, B, and C are from grade cows, while D is from a pure bred Jersey that produced from March 10 to Oct. 30, 4,458 lbs. of milk containing 229.9 lbs. of butter fat, an average test of 6.15 per cent. Her grand dam was imported into Prince Edward Island years ago from the herd of Mrs. E. M. Jones, Brookville, Ont.

Had the owner of these heifers not been keeping records of both the milk and butter fat from each cow in his herd no doubt D would have been looked upon as the poorest one of the four on account of the quantity of

milk she is giving in comparison with the other three.

The owner had decided to beef these heifers until his attention was drawn to the butter fat they gave compared with mature grades in his herd.

By the keeping of individual records, valuable information is acquired in reference to the herd, which, if taken advantage of, means a better herd and more dollars in our pockets. A card to the Dairy Division, Ottawa, will give full instructions how to proceed.

A Land of Opportunity

(Continued from page 8)

In many parts of the west. The railroads are already in New Ontario. The Temiskaming and Northern Ontario Railway, owned by the Province of Ontario and operated by a commission of able business men, who are not only interested in making the road itself a success but desire extensively to assist in the development of the country through which it passes, adds greatly to the attractiveness of New Ontario and affords the means of getting into and out of the country and gives a nearby market, for all farm products, even as farmers of many sections of older Ontario now have.

The main line of the T. & N. O. railway runs in a northwesterly direction from North Bay to Cochrane, a distance of 252 miles. At Cochrane it intersects the Grand Trunk Pacific railway, which when completed will carry through traffic from Prince Rupert, on the Pacific coast, to Montreal, N.B., on the Gulf of St. Lawrence.

This highway is of the utmost importance to all home-seekers in that it provides facilities for the transportation of produce, lumber, pulp wood, etc., comparatively easy, and it brings to the settlers the convenience of civilization.

In comparison with the west the advantage is in favor of New Ontario for the prospective settler. For one to get larger acreages under cultivation and make the marketing of produce, lumber, pulp wood, etc., comparatively easy, and it brings to the settlers the convenience of civilization.

Before passing by New Ontario and her advantages every Farm and Dairy reader who is looking for land and new opportunities should secure full information about New Ontario. Much literature is interesting and instructive about this great district, it is to be had for the asking, from the Temiskaming and Northern Ontario Railway, which maintains a Land Department. Write Mr. Frederick Dane, Land Commissioner, 25 Toronto St., Toronto, or Geo. W. Lee, Assistant Land Agent, T. & N. O. Ry., North Bay, Ont. For illustrated booklets about New Ontario.

For some weeks a Demonstration Car has been making a tour of Old or Ontario. This train has some weeks of its schedule yet to complete. When it is at your nearest station during the next few weeks you will be more than interested and repaid for your trouble in visiting it and securing the information you may there obtain.

Take Notice That For 1912

We will Publish Eight Special Magazine Numbers

They will be the Fourth Annual Series. We know how to make them good. Our people are looking for them.

Advertisers It'll be your loss if you people—the **Monied Dairy Farmers** of Canada—do not come face to face with your proposition in every one of these special issues.

THESE SPECIAL MAGAZINES

will be:

POULTRY NUMBER
Out February 1st—Our people are enthusiastic Poultry keepers. Over 95 per cent. of them keep Poultry.

ORCHARD AND GARDEN NUMBER
Out March 7th—it is worthy of your notice that amongst our people there has been a great awakening about making money out of orchards.

SPECIAL DAIRY NUMBER
Out April 4th—In dairying our people specialize. It is in this line they make their ready money—lots of money.

FARM IMPROVEMENT NUMBER
Out May 2nd—The desire to improve farms and homes is an attribute of Dairy Farmers. They are a "home" people. Their land is the most valuable.

FARM MACHINERY NUMBER
Out June 4th—Work—manual labor—that's the most expensive thing on dairy farms. Dairy farmers are eager for labor-saving machinery.

EXHIBITION NUMBER (Our Fifth Annual)
Out September 5th—Not a man with a proposition worthy of notice will miss this great annual. It will appeal and appeal strongly to all our readers.

HOUSEHOLD NUMBER
Out October 6th—The women! They buy or have the say in buying over 80 per cent. of all merchandise. You cannot afford to overlook them.

BREEDERS' NUMBER
Out December 5th—Not least—if last. Our Breeders' interests are paramount. This number is out just at the most opportune time for Xmas advertising.

Plan Now

Our circulation is increasing so rapidly our rate rate of 7c a line is likely to go up after January 1st, 1912. Reserve now the space you want.

Page 847.04; Half page, 823.52; Quarter page, 811.76.

FARM AND DAIRY PETERBORO ONTARIO

"A Paper Farmers swear by"

A New World's Record

Eileen, an Ayrshire cow owned at Vankleek Hill, Ont., is now the champion one and two-year butter fat Ayrshire cow of the world.

Since the Record of Performance work began breeders have had it more clearly brought before them that in every breed there are certain individuals or families to which certain characteristics belong. In claiming the Ayrshire butter fat record Eileen does not come before the public for the first time. All Ayrshire breeders familiar with the Record of Performance reports know that as a high tester Eileen is a wonder. This great cow comes from a family that work the Record of Performance work began were prized by their owners for the high per cent of butter fat which their milk contained.

GREAT WORK FOR TWO YEARS

Eileen began her test work in September, 1909. In her first year she gave 11,025.15 lbs. milk and 522.95 lbs. of butter fat, equal to 616.12 lbs. butter. Her average per cent butter fat was 4.74. She freshened again in November, 1910, and began her second year with a rest of less than 34 days. In her second year she gave 13,778 lbs. of milk and 635 lbs. of butter fat, equal to 747 lbs. of butter. Her average per cent butter fat was 4.63 per cent. During the two years her lowest test was 4.4 per cent and her highest 8.6 per cent. In two years she gave 1,369.12 lbs. of butter. With this wonderful record she now holds both the one and the two-year butter fat records.

During the first year Eileen was fed an ordinary dairy cow's ration. Last year she received somewhat more attention regarding her feed, but not in any way different from the rest of the herd.

THE FEED OF THE CHAMPION

She was fed in her first year of bran, oats and barley meal with a pound of oil cake meal added. Her main feed was roots, ensilage and clover hay. She had water before her all the time.

In winter she was let out once a week when weather permitted in an enclosed yard to run for about 10 minutes. She was groomed daily and milked and fed regularly. Her milk is due to freshen the first week of March, 1912.

This champion cow, owned by G. Drummond McE, Bonnie Brae Stock Farm, Vankleek Hill, Ont., was bred by William Greer, Ormstown, Que., who now owns her only daughter in Canada. Another daughter is in the herd of Mr. Plant, a multi-millionaire of Boston. A son now heads the famous Woodside herd.

The Real Reason Why Boys Leave the Farm

(Continued from page 2)

Do you wonder how it is that some people can travel in automobiles while farmers work a life time and have but little to show for it?

Only 186 feet of land on the east side of Bank street, Ottawa, was bought in November, 1910, for \$18,500, and was resold the next month for \$24,000. A still worse case is that of **A MR. ROCHESTER, WHO BOUGHT PIECE OF PROPERTY IN OTTAWA, IN JUNE, 1910, FOR \$3,000, AND RESOLD IT IN DECEMBER, 1910, ONLY SIX MONTHS LATER, FOR \$35,000. A PROFIT OF \$32,000 IN SIX MONTHS IS NOT TOO BAD, IS IT, ESPECIALLY WHEN OTHER PEOPLE ARE KIND ENOUGH TO EARN IT FOR YOU?** Do you wonder, then, why our brightest and best boys leave the farm when they see how easy it is for some people to get rich by doing practically nothing? Farm and Dairy could quote thousands of similar cases to these in connection with practically all our leading cities.

"THERE IS ONLY ONE REME" FOR THIS UNJUST CONDITION. ALL LAND SHOULD BE TAXED ON A PROVINCIAL AND DOMINION BASIS ACCORDING TO ITS VALUE, THUS AS WE FARMERS BY OUR PRODUCTIVE LABOR, INCREASE THE VALUE OF LAND IN THE CITIES WHICH ARE OUR TRADING CENTERS, THESE INCREASED VALUES WILL COME BACK TO US WHO CREATE MOST OF IT, THROUGH THE INCREASED TAXES SUCH LAND WILL PAY. ON THIS BASIS ONE ACRE OF VALUABLE CITY LAND IN THE BUSINESS DISTRICTS, WOULD PAY AS MUCH TAXES AS FARM LAND, and as explained last week, the cities themselves would benefit, because the speculative holding of land out of use would be prevented and land could be purchased more readily, thus saving rents and encouraging legitimate business enterprises.

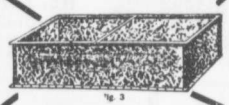
WHILE SUCH CONDITIONS AS THESE EXIST IT IS ILLEGALLY TO TALK OF KEEPING THE PEOPLE ON THE FARMS OF OUR COUNTRY BY BUILDING BETTER ROADS AND SPENDING MORE MONEY FOR AGRICULTURAL EDUCATION SUCH PROPOSALS ARE PUERILE.

Fortunately the position is full of hope. Premier Whitney is opposed—although he says he will favor it when the farmers vote it—to the taxation of land values, even only on a municipal basis, which is the first step towards the larger measure here outlined. On the other hand practically all the leading Conservative papers in Ontario, including the Toronto World, the Hamilton Spectator and the Ottawa Citizen, are favorable to the taxation of land values for municipal purposes, and leading Conservative candidates in the present provincial election have pledged themselves to support this movement, which was first advocated in Ontario by prominent Conservatives. The new leader of the Liberal party in Ontario, Mr. N. W. Rowell also sees that something is wrong. In his speech at Guelph, he pledged the Liberal party in Ontario, should it be elected to power at this election, to appoint a Royal Commission composed of non-partisan authorities on agricultural subjects, to investigate the reasons for the decline in rural population in Ontario, to submit not only the effect combines are having in increasing the cost of the goods the farmer buys, but also the reasons for the great increase that takes place every year in the value of land in our towns and cities, while the value of farm land remains stationary or declines.

During the next few months Farm and Dairy expects to have a good deal more to say on these subjects. When we feel that our leading farmers at least are willing to back us in this movement—that has for its object the securing of nothing but justice for our farmers—we will be prepared to submit a platform that we trust will be endorsed by the farmers' organizations of Canada, organizations that are strong in the west but so weak in Ontario as to be a standard disgrace to our farmers. Permanent improvement in these conditions can never be secured until our Eastern Canada farmers are willing to stand together as our brother farmers are ready to do in the west. Contributions on this subject from our readers are invited.

I received the fountain pen for securing my own Dairy subscription for Farm and Dairy in time, and for Farm and Dairy in time, and I think it is a dandy. We all like Farm and Dairy and consider it the best farmers' paper that has ever been published—Chas. W. Cole, Huron County, Ont.

Steel Tanks that Won't Rust



Most tanks do rust—especially around the edges, corners and rivets—because all the metal is not galvanized.

We do all our own galvanizing—and every part of our steel tanks—rivets, corners, angles, braces, etc., are all thoroughly galvanized.

How then can they rust? Write for our catalogue. Sent free.

Ontario Wind Engine and Pump Company, Limited
WINNIPEG TORONTO CALGARY

MORE MILK—How to Get It

If you feed your cows merely to keep them alive, then straw will suffice as a food. But, if you want milk—more milk than corn, bran, hay, or ensilage will produce, then there's only one feed worth considering. It's called **"BARTLETT'S 'FARMER BRAND' FANCY CHOICE COTTONSEED MEAL."** No other feed equals "Farmer Brand" in Protein, the milk producing element. "Farmer Brand" is guaranteed to contain 4 to 48 per cent Protein. It has six times the feeding value of corn, four times the value of bran. Far superior to Lined Meal or Gluten Feeds. Use it once and you will never do without it. One trial convinces.

SAMPLE TOP PRICES
\$33.00 per ton L.O.B. Windsor, Woodstock, Hamilton, Brantford, or Brownsville.
\$35.00 per ton L.O.B. Toronto, Peterborough, or Kingston.
Sample 500 lb. lot, \$3.00 L.O.B. either point. Send check for this price, and watch the milk increase. It never fails.

Our famous booklet "Feed Facts" tells why Full of information on Feeds and feeding. Free for the asking. Write now.

THE BARTLETT CO.
418 Hammond Bldg Dept C, DETROIT, Mich.

G. A. GILLESPIE, PETERBORO, ONT.

ONTARIO PROVINCIAL WINTER FAIR

WILL BE HELD AT **GUELPH**
Dec. 11 to 15, 1911

Exhibits consist of over 6000 high-class **HORSES**
BEEF and DAIRY CATTLE
SHEEP, SWINE, SEEDS
and **POULTRY**

Judging begins at 8 a.m. Tuesday, Dec. 12 and continues until Friday Afternoon, Dec. 15

PRACTICAL LECTURES will be given on subjects relating to the various classes of live stock, also to seeds, poultry, alfalfa and the conservation of soil moisture.

Single Fare Rates on the Railways
For Programme of Judging and Lectures Apply to the Secretary

JOHN BRIGHT President
A. P. WESTERVELT Secretary
MYRTLE STATION PARLIAMENT BUILDINGS TORONTO

The Machine the Farmers' Buy

AND THE BEST VALUE FOR THE MONEY OF THEM ALL IS TOLTON'S

No. 1 DOUBLE ROOT CUTTER

To change from Pulping to Slicing is but the work of a moment

Has double the capacity of any other machines made. Especially adapted to handle mangels, and has perfect delivery of the feed into Box or Basket when running at high or low speed. Can be most successfully operated by power if so desired.

In fact the only proper machine for farmers to buy.

THE ONLY DOUBLE ROOT CUTTER MANUFACTURED. Fitted with Roller Bearings, Steel Shafting, and all that is latest and best in principle, material and construction. SEND FOR DESCRIPTIVE CIRCULAR AND PRICES.

TOLTON BROS., Ltd. (Dept. D) Guelph, Ont.

Canuck Dairy Feed

A specially prepared food for dairy cattle. Very rich in protein and fat.

Sold by all prominent dealers

Chisholm Milling Company

Jarvis Street - Toronto

The Feeders' Corner

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

Making Feed Go Farthest

N. C. Campbell, Brant Co., Ont.
Feed being scarce this year, and high in price, it behooves each of us to make all fodder go its full length by managing the feeding of it to the best advantage. One of the main points of advantage in getting the most out of any fodder for live stock is to have it palatable for that stock.

When it is purposed to feed straw and dry corn fodder in the ration it helps much and makes the feed go farther if it be cut and mixed with roots. The roots, of necessity, in this case must be pulped.

By mixing all together some hours in advance of feeding, dampening it with water and sprinkling a little salt upon the mixture, I have found that my cattle relish the fodders better than when the straw and dry corn fodder are fed alone. And, too, in this case there is practically no waste—an important consideration this year.

To cut the feed, of course, entails extra work. But for this work we get ample reward. This year, with roots so scarce, it will be an additional advantage above the usual to have them pulped, and thereby make them go as far as possible.

Ration For An Idle Horse

Would you suggest a ration for a working horse of 1,300 lbs. that will have very little work to do this winter? We have six such horses to be carried over, and would like to know the cheapest grain ration possible to be fed with mixed hay.

—E. F. E. Colechester Co., N.S.
Good mixed hay is a quite satisfactory ration for idle horses. If there is not much clover in the hay, an occasional feed of bran, either dry or wet (hot bran mash), will be found advisable. Early in March it would be well to begin to feed a light grain ration, say six to 10 lbs. a day, of a mixture of equal parts whole oats and bran.

It is well also to begin work gradually. Horses fed light rations all win-

ter and put on heavy work and heavy rations at one and the same time almost invariably suffer in either health or condition or both.

Start to feed heavier rations before starting to work at harder work and longer hours. Let the ration always anticipate the work.—J. H. G.

Rations For Fattening Steers

We have lots of mixed hay, fodder corn and turnips. We are planning to buy in 20 steers to be fed this winter. Kindly suggest a grain ration to balance up these rough feeds and have the animals in good condition by June 1 of next year—E. G. Northumberland Co., Ont.

I suppose that by "good condition" your correspondent means "ready for the block" next May. Such being the case, I would suggest the following as methods of feeding likely to give the results desired:

Plan 1.—Feed for 1,000-pound steer for one day. First period, four weeks. Fodder corn (cut), 15 lbs.; oat straw (cut), 5 lbs.; turnips (sliced), 30 lbs.; hay, 10 lbs.; meal mixture, 1 lb.; oats 100 lbs., bran 100 lbs., oilcake 50 lbs.

Second period, four weeks. Gradually increase meal to three pounds a day during the period; other part of ration unchanged save in quantity if necessary.

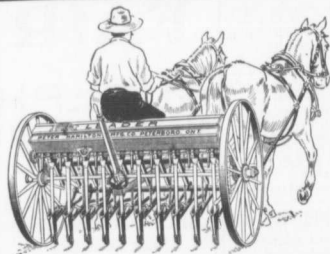
Third period, six weeks. Increase hay to 12 or 13 lbs.; increase turnips to 35 or 40 lbs.; increase meal to about 4 1/2 lbs. at end of period. Change meal to oats 100 lbs., bran 150 lbs., oilcake 100 lbs.

Fourth period, six weeks. Change meal mixture to oats 100 lbs., bran 200 lbs., oilcake 150 lbs. Increase meal to about six pounds.

Fifth period, to end of feeding. Feed meal as freely as cattle will stand, say eight pounds a day. (Not advisable to pass eight pounds a day.) Gradually change meal to oats 100 lbs., bran 200 lbs., oilcake 300 lbs.

Plan 2.—Feed roughage as in plan 1, but use home grown concentrates as follows: First three months, starting with one-half three pounds a day, gradually increase to three pounds a day of a mixture of home grown grains, which might be as follows: Oats 100, barley 100, corn 150 or oats 100, or mixed oats, peas, barley 200, Indian corn 100.

Second three months, gradually increase steers to eight pounds a day, of a mixture of oats 100, barley 300,



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, LIMITED PETERBORO, ONT.

peas 100, corn 200, corn month on feed found profits of oilcake m-gested meal meal ration t out of home

It Pays to... Wm. H. Taylor... The net result... failure this... Dairy will b... its readers t... or to overc... ditions of t... ent results for this crop

My land is wheat last y... wheat had dressing of row and hop of buckwheat down when divided the Plot No. 1, 2 at the rat potash, 400 acre; No. 3 acid phospho soda per ac well harrowed potato

The first was splendid until J days at 96 shade, and in the sun evaporation, the hoe going got a few l hopes reviv but in theatoes, tom were killed tatoes were half grown, persistence

P
Yield p
The

peas 100, corn 100; or oats 200, barley 200, corn 200. During the last month on feed it would, however, be found profitable to add about 200 lbs. of alkali meal to either of the suggested meal rations or to almost any meal ration that could be compounded out of home grown feeds.—J. H. G.

It Pays to Fertilize Potatoes

Wm. H. Taylor, Lotbiniere Co., Que. The potato crop being almost a failure this year, I believe Farm and Dairy will be glad to be able to give its readers the results of my endeavors to overcome the unfavorable conditions of the season; also the different results from certain fertilizers for this crop.

My land is a clay loam, under buckwheat last year. As soon as the buckwheat had started, I sowed a light dressing of Larnyard manure (horse, cow and hog), as if I wanted a crop of buckwheat, and plowed the whole down when about two inches high. I divided the field into three parts: Plot No. 1, no fertilizers; Plot No. 2 at the rate of 200 pounds sulphate potash, 400 lbs. nitrate of soda per acre; No. 3 at the rate of 400 lbs. acid phosphate and 120 lbs. nitrate of soda per acre. The whole field was well harrowed and planted to Sensation potatoes.

The first two weeks the weather was splendid, but our first rain was not until July 18, followed by many days at 90 to 104 degrees in the shade, and from 108 to 130 degrees in the sun. To prevent too great evaporation, I kept the cultivator and the hoe going nearly all the time. We got a few light rains in August—our hopes revived, things looked well—but in the night of August 31st potatoes, tomatoes, beans, corn, etc., were killed to the ground. The potatoes were certainly not more than half grown. However, I feel that my persistence and courage were reward-

ed, as the following results seem to show: the seed was planted on May 30th and 31st, killed August 31st, three months, instead of four months, or more.



No Wonder he Smiles

Litter and feed carriers in the stable are convenient to us farmers, can scarcely afford to do without. They lighten labor and make it more efficient. Mr. Thos. Geddes, Brant Co., Ont., who may be seen in the illustration, is well pleased with his carrier.

Plot No. 1—Light dressing of manure only; yield at the rate of 194 bushels per acre.

Plot No. 2—Manure, and in addition 200 lbs. sulphate of potash, 400 lbs. acid phosphate, 120 lbs. nitrate of soda; 212 bushels.

Plot No. 3—Manure, and 400 lbs. acid phosphate, and 120 lbs. nitrate of soda; 204 bushels.

The latter plot gave 12 bushels more than Plot No. 1, and Plot No. 2 gave 48 bushels more than No. 1. This means, in the one case, an increase of value, at 75c per bushel (they are going up fast, and will be at least \$1.00 in the spring), of 89; and in Plot No. 2, 48 bushels, at 75c, gives an increase of \$36.

Now, Mr. Editor, all up-to-date farmers will admit that the constant surface cultivation did a great deal of good, but will they give any credit to the green buckwheat plowed in? I do.

Our Veterinary Adviser

SCRATCHES—Give cause and treatment for scratches.—D. M. L., Hastings Co., Ont. Scratches are caused by dirt, neglect, alternate heat and cold, wet, and so forth. Treatment consists in giving a purgative of eight drams aloes and two drams ginger, and following up with 1-1/2 oz. Fowler's solution of arsenic twice daily for a week. Keep dry and clean and dress three times daily with a lotion made of one ounce each of sulphate of zinc and acetate of lead to a pint of cold water. If this dries the parts up too much use oxide of zinc ointment occasionally as required.

ABORTION—I have been advised to inject a commercial preparation into the shoulder of my cows to prevent abortion. Is this remedy effectual?—A. K., Dundas Co., Ont.

You do not mention what the preparation is made of, and we have no knowledge of any preparation that is used that way. If your herd has infectious abortion it will be wise to put it under the care of your veterinarian and treat according to his directions. It usually requires about two years to rid a herd of the trouble.

YOUR HORSES

HAVE THEY WORMS? ARE THEY OUT OF CONDITION?

Feed is expensive this winter, you cannot afford not to have your horses doing well

Tapscott's DOMINION CONDITION POWDERS

Will put them in the best of shape and cost you little

Every user of Tapscott's Dominion Condition Powders has good words for it. He comes back again. Try it for your stock.

It is for **Horses, Cattle, Sheep and Hogs**. Contains no injurious drugs. Horses are built up in health by it as a tonic and stimulant that helps digest their feed.

It gets rid of all intestinal worms. Nothing to equal it for purifying the blood destroying worms. Cures hide-bound and imparts a nice sleek coat.

3 Pkgs. 50c; 7 Pkgs. \$1.00

(30 Doses to the Package) Guaranteed to give satisfaction, or Money Refunded

TAPSCOTT DRUG CO. BRANTFORD, ONT.

POTASH means PROFIT



UNFERTILIZED

FERTILIZED WITH

400 lbs. Acid Phosphate
130 lbs. Muriate of Potash
Per Acre

Yield per Acre:

12 1/2-2 tons

31 tons

The time has come to ask yourself the question: "Does it pay to use fertilizers? Obtain a direct answer to this question by applying a fertilizer rich in Potash next spring.

POTASH may be obtained from all leading fertilizer dealers and seedsmen in the highly concentrated forms of

Muriate of Potash AND Sulphate of Potash

Learn how to purchase and use fertilizers most economically. Write us for free copies of our educative, illustrated bulletins, which include:

"Artificial Fertilizers, Their Nature and Use"

"The Farmer's Companion"

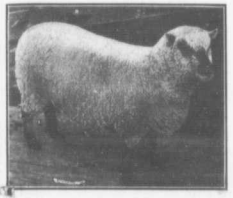
"Fertilizing Orchard and Garden" etc.

The Dominion Agricultural Offices of THE POTASH SYNDICATE
1102-5-6 TEMPLE BUILDING, TORONTO

Why We Should Breed More Sheep

Donald Innes, Veech Co., N.B. If sheep are properly handled they are the most profitable of all domestic animals...

To get the best results from both animal and wool we farmers must at all times use pure bred rams of whatever breed we fancy...



A Good Combination - Wool and Mutton

The tiny Southdown ewe here illustrated is of the kind that combines good mutton and high class wool.

In spite of the evident advantages of a flock of sheep on the farm, farmers are not raising as many as they used to do...

Community Breeding

Compilish an end that the efforts of the several men working independently. A permanent organization of dairymen in any county with the fixed resolve to eliminate every scrub bull and to support community breeding will do untold good.

Cooperative work will assist in arresting and stamping out diseases, will protect all members in purchasing well as in selling stock, and will quickly bring prosperity to the district.

The plan as in operation in several sections of the United States is very simple. Farmers may club together in an association and buy three or more pure bred dairy sires of the same breed and not related.

If there are three sires in the association they may be used for six years with this system of exchange without any necessity of in-breeding...

real value has been determined. The old and well proven sire should be in demand because his progeny will have demonstrated his breeding worth.

The members of such an association would probably find a monthly meeting very profitable, as we are seeking, merely financial results, but mental and social improvement as well.

The matter of constitution and by-laws is not very simple.

Let us now see briefly what may be cited as objects and results of the proposed associations. First, to encourage the raising of high grade dairy stock from pure bred sires.

To materially assist members in the best methods of feeding and care of stock. To induce uniform and efficient methods through the study of the principles of breeding so that animals of greater value will be produced.

To give to every member who is selling milk or cream additional handsome profits from the increased production of milk and butter fat. To advertise to the show, the sale ring, the advertising journal and the private sale of stock.

Breed Pure-Bred Beef Cattle

In the stable the same as the scrub. He will require no more labor to attend to him, and less feed. When sent to the block he will give a greater profit to the breeder and feeder, as well as supply a superior quality of beef to the consumer.

In order to have a sufficient volume of good beef cattle coming along to supply the ever increasing demand, we farmers must breed our own pure bred beef cattle, and get away from the trouble that now exists, which is a mixture of three or four different breeds, and, in many cases, dairy blood predominating.

The production of beef is a good paying business; that is, if we produce the right kind in the right way, and in order to do that, we must breed (have the right kind of blood) provide comfortable quarters and fatten our cattle the right kind of feed.

With land values going up, with skilled labor almost impossible to get and wages high, and the kind of feed both very scarce and very high, we say that never in the history of this country was it more important that we farmers should breed cattle of the right type.

The loss sustained by farmers since dairying first started in Ontario through the improper handling of milk is appalling. If it could be put down in dollars and cents I do not think any one would believe it possible - R. W. Ward, Dairy Instructor, Peterboro, Ont.

Anything to Sell

We want to hear from every reader of FARM AND DAIRY who has anything to buy, sell, or exchange. Have you FARM FOR SALE? Have you LIVE STOCK for sale or want to buy? Have you a CREAM SEPARATOR, BABCOCK TESTER, INCUBATOR, BOOKS, or ANYTHING that you would like to exchange for cash or for other articles of value equal to what you have?

The small trader can connect with possible customers by placing a small advertisement in our columns. Our rate is 8 CENTS AN INCH. Bargain counter space in our classified columns at 2 cents a word. Make out your advertisement and send it to-day to Farm and Dairy, Peterboro, Ont.

AN OPEN WINTER FOR THE MAN LIVING IN THE SOUTHEAST UNITED STATES

Pleasant summers and mild winters make the Southeast the ideal home country. Wonderful opportunities for investments in LAND WHICH WILL SOON BE WORTH DOUBLE ITS PRESENT COST. Its producing qualities are limited. Prices range from \$15 AN ACRE UP. Two to three crops from the same soil per season. Fruit, truck, alfalfa, corn, wheat, cotton, etc. yield large profits. Poultry raised at small cost. BEEF and PORK produced at 1 TO 4 CENTS. Ample home markets and excellent rapid transportation facilities to the northern and western city markets. Special literature on each State. Let us know which interests you. Write Mr. V. Richards, Land and Industrial Agt., Southern Railway, Room 30, Washington, D. C.

Facts-- Not Theory, About Stable Equipment

When big stables like the Central Experimental Farm, Ottawa, the new barn at Silver Spring Dairy Farm, Ontario, the Eridale farm at Toronto and others we will tell you about are equipped with our Canadian U Bar Patented Steel Stanchions, there's a reason for it.

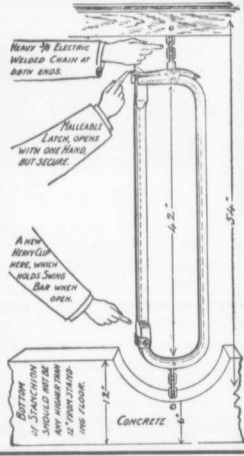
O.K. U Bar Stanchions are of one piece; have no rivets or joints, therefore they never sag and they stand up against all and the most severe usage. See diagram.

O.K. U Bar Stanchions have stood the test of years. They are recommended above all others by those who use them. Ask these people. Don't make any costly mistakes by getting inferior barn equipment. Get the Canadian O.K. line.

We manufacture also O.K. Canadian Stalls, Water Basins and a complete line of Stable Equipment. Write us for further information and prices.

CANADIAN POTATO MACHINERY CO., Ltd.

127 STONE ROAD, GALT., ONT.



DO YOU WANT TO MAKE MONEY?

SELL MURIATE OF POTASH - NITRATE OF SODA SULPHATE OF POTASH - ACID PHOSPHATE

THE ONLY Fertilizing Materials recommended by every Provincial Department of Agriculture in Canada, with Representatives in every County in the Dominion

WE WANT AGENTS - We make it pay YOU to be one

WRITE NOW FOR PROPOSITION

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Advertisement for Gillette safety razors, including text about shaving without trouble, product details, and contact information for Gillette Safety Razor Co. of Canada, Limited.

NEW ONTARIO

20,000,000 acres of rich, virgin loamy soil awaits development in New Ontario. It is easily drained, will not lake, is well watered and contains a large percentage of humus.

Every farm has sufficient timber for building purposes and for firewood. Besides hundreds of cords of pulpwood.



Toronto to Cochrane . . . 480 Miles
 Toronto to New Liskeard . 330 "
 Toronto to Port Arthur . . 814 "
 Toronto to Sault Ste. Marie 440 "



Three Transcontinental Railways pass through NEW ONTARIO — C. P. R., G. T. R., and Canadian Northern.

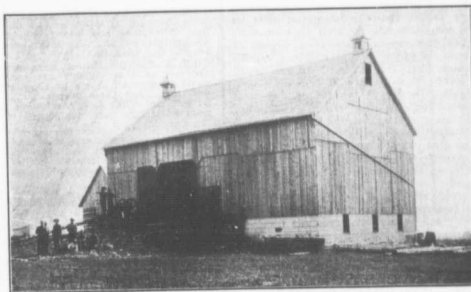
Oats yield 75 to 90 bus. per acre
 Barley yields 40 to 60 bus. per acre.

Peas are almost native. NO WEEVIL.

Soil very suitable for Flax.

Corn will ripen sufficiently for silage and soiling.

The production of Clover and Timothy Seed was very profitable in New Ontario. \$1,800 was realized from 50 acres of timothy seed.



Many Large Roomy Barns have been built. This one is near New Liskeard

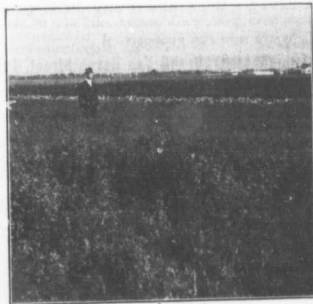
Spring and Fall Wheats do well. Yields of 20 to 40 bus. per acre are had.

Quality equal to Manitoba No. 1 hard.

Climate particularly favorable. Climate and soil are particularly suitable to the growth of every Vegetable.

Quality cannot be excelled.

Three crops can be obtained in one season at New Liskeard. Old Ontario buys seed Potatoes in the North.



Clovers are indigenous and yield 2 to 4 tons per acre. Alfalfa is just being introduced. This cut shows a field of Alfalfa photographed this Fall in New Ontario.

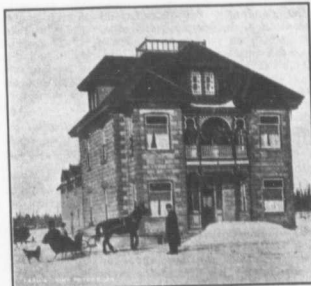
There are no infertile areas

No alkali soils

No artificial fertilizers needed

No noxious weeds as yet

Rival Telephone lines are being erected.



Comfortable homes are being erected. Some of the farm houses like this in New Ontario are equipped with all modern conveniences.

The development of cheap electric power from the numerous water falls is assured.

New Ontario offers all the essentials for success to the dairyman and general stock man: good pasture, clover, corn, an excellent GROWING home market and an ideal climate.

For further information write:

DIRECTOR OF COLONIZATION
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Horse Wisdom

Don't study to cut down the colt's ration during the cold weather. Every pound of flesh a colt loses now will be costly to replace.

Fresh air is cheap and the colts and unweaned horses should spend much of their time on pleasant days in the open air.

A roomy, warm box stall is the best place for mare and foal. Oats and bran make the very best of grain food for breeding mares and growing colts. Clean clover hay is the best roughage.

Clean dry bedding is a prime requisite in the care of live stock. This is particularly true of horses. Thrush, cracked heels and many diseases of the foot, as well as great discomfort to the animals, result from damp bedding.

Care should always be taken to blanket the clipped horse. We think it better not to clip them at all in winter, but if you are bound to save yourself the work of currying, don't forget the blanket accompaniment.

The CHAMPION Evaporator

Makes The Highest Quality of Maple Products

At the recent Exhibitions held at Quebec, Sherbrooke and Ottawa, there were forty prizes awarded on Maple Syrup and Sugar, and the users of the "Champion" captured thirty-nine. This speaks for itself.

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THE SALVATION ARMY IMMIGRATION and COLONIZATION DEPARTMENT

For several years recognized as The Leading Immigration Society in Canada will during the coming season 1911-12 continue its efforts to supply the demand for

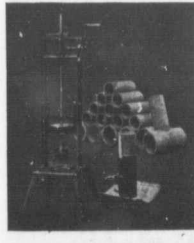
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Our men have given satisfaction. We bring out the best class of men and take care in the placing of them.

Make Your Own Ties



Cost \$4.00 to \$6.00 per Hand or Power

Farmer's Cement Tile Machine Company
WALKERVILLE, ONT.

Seed Selection, Practical and Profitable

(Concluded from page 6)

from a single plant is multiplied until enough is produced to sow the plot of standard size. The O.A.C. No. 21 barley, which is fast becoming the most popular six-rowed variety in Ontario, is the result of selection of a single outstanding plant, I believe in 1903.

MANY FIND IT PROFITABLE

During the last six years it has been my work to visit and report upon the plot work of many members of the Canadian Seed Growers' Association, chiefly in Ontario. I can confidently affirm that the mass selection of plants carried on by these members has not only been practical but for the most part profitable.

The third system of selection, the fanning mill process, is of course open to every farmer who may own or have access to the use of a mill. If farmers are only believed in this method of selection strongly they would not only save for seed that portion of the crop which is entirely ripe and which had ripened evenly in the field, but they would cooperate in buying a power mill, locate it at a convenient place in the neighborhood, secure a man to operate it who knew how to adjust the screens, wind, etc., and would have all the grain they used for seed thoroughly cleaned, as well as any surplus they might have to sell for seed.

ALWAYS A DEMAND

The demand for pure, vital seed grain is increasing every year, and the farmers who can deliver the good, plump seed should be able to get very satisfactory prices for it. The value of the grain for seed purposes would be greatly increased if it had behind it the benefit of several years' selection. The fixed characters of a good sort are capable of transmission.

The question of hybrid raising. Is it profitable to go to all this trouble and expense in procuring good seed? I say unhesitatingly, Yes. I believe it will pay farmers to do it for their own benefit. So much of our grain is grown in a mixed condition that it is difficult to procure pure seed of some crops in quantity, barley and oats more especially. Improved strains give larger yields as well. Wherever these principles of seed selection are observed it works out profitably.

An Expert Herdsman Talks on Calves

(Concluded from page 4)
oats, and one part oilcake, fed with pulped roots.
No hard or fast rule can be laid down as to the amount required for each calf. A watchful feeder will soon know what each calf requires. The calves should be fed enough to keep them in a vigorous, growing condition, but do not overfeed. All extra attention put on the young calves will be well repaid by the future cows.



"Metallic settings and walls in the kitchen prevent many a bad fire—you know they are prepared."
The Philosopher of Metal Tonn.

Walls and Ceiling For the Kitchen

It is impossible to keep the ordinary kitchen walls clean—smoke discolors them—dirt and grease sticks and stains so readily—very unsanitary, a regular breeding place for vermin. Why not have a bright, clean kitchen—cover the walls and ceiling with

METALLIC

It is both sanitary and artistic. Metallic is the ideal ceiling and wall covering for the kitchen—dusts falling in the food—no vermin, keeps out the rats and mice, and is always fresh and clean. Our free booklet "Interior Decorations in Metal," tells you all about ceilings and walls. Write for it now. Phone Parkdale box.

MANUFACTURERS



TORONTO FAT STOCK SHOW
UNION STOCK YARDS, TORONTO
JUDGING MONDAY, DEC. 11

Auction Sale of Prize Winners, Tuesday, Dec. 12

Grand Display of Individual and Car Loads
Pure Bred and Grade Cattle, Long and Short Wool Sheep
Bacon Type Hogs. Added Attraction:

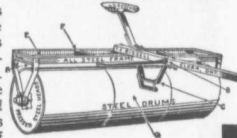
STOCK YARDS POULTRY ASSOCIATION EXHIBIT OF UTILITY FOWL

ADMISSION FREE! - EVERYBODY WELCOME!

REDUCED PASSENGER RATES ON ALL RAILROADS

"Bissell" rollers are a specialty

The "Bissell" Rollers are built by men who have made a life study of this work, and are SPECIALISTS IN THE BUSINESS. Search as you may, there are no such perfect Land Rollers on the Continent as the "Bissell." Make a note of these points and compare the "Bissell" Rollers with any other Land Roller in America. If the "Bissell" does not convince you that it is the best Roller, then don't buy, but you ought to know the facts, and it will do any person good to make the comparison. No need to send special travellers to sell "Bissell" Rollers. Practical farmers see the difference and prefer the "Bissell."



The 18 cold rolled anti-friction Bearings 1/2 inch thick with lathe cut ends, held in the one piece Malleable Iron Cage, is a single point placing the "Bissell" Roller away ahead.

Look for the name "Bissell" on every Roller. No other is genuine. Ask Dept. R for free catalogue. **T. E. BISSELL CO., ELORA, ONT.**

"THE TWEED" SANITARY LIQUID CHEMICAL CLOSET

"The Tweed" is a Sanitary Liquid Chemical Closet, which can be installed in any dwelling without water works or plumbing.

It is perfectly odorless and with ordinary care and attention will last for years. Nothing is got wrong or get out of order.

No self-respecting father or husband would permit his wife or children to use a "death trap" after he reads this announcement.

The Tweed Sanitary Liquid Chemical Closet brings health and happiness to all rural dwellers.



Send for Pamphlet

A DEATH TRAP The greatest death trap ever invented by man is the unsanitary, draughty and disgusting out-of-doors closet.

Delicate women and tender children are forced to go all winter into a cold barn of a place called a closet and there sit ever had small and a draughty seat. No wonder they become an easy prey to disease germs. Colds are frequent. Tuberculosis often puts an end to a precious life which might have been saved if they had known of and used the Tweed Sanitary Liquid Chemical Closet. Write for particulars to-day.

TWEED CLOSET CO., TWEED, ONT.

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, Manitoba, Ontario and Western Ontario, and Bedford District, Quebec, Dairywomen's Associations, and of the Canadian Holstein and Jersey Cattle Breeders' Associations.

2. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.25 a year. For all countries, except Canada and Great Britain, add 50¢ for postage. A year's subscription free for a club of two new subscribers.

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

4. CHANGE OF ADDRESS.—When a change of address is ordered, both the old and new addresses must be given. **5. ADVERTISING RATES** quoted on application. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE 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 \$300. The actual circulation of each issue, including copies of the paper sent subscribers who are but slightly in arrears, and sample copies, varies from 1500 to 1700 copies. No subscriptions are accepted at less than the above subscription rates. Thus our mailing lists do not contain any dead circulation.

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

OUR PROTECTIVE POLICY

We want the readers of Farm and Dairy to feel that they can deal with our advertisers with the assurance of our advertisers' reliability. We try to admit to our columns only the most reliable advertiser. We demerit with the treatment he receives from our advertisers. We will investigate the circumstances fully. If our advertisers are not reliable, even in the slightest degree, we will discontinue immediately the publication of their advertisement. Should the circumstances warrant, we will expose them through the paper. Thus we will not only protect our readers, but our own advertisers as well. In order to be able to do this, we will take advantage of all our policy. You need only to include in your advertisement in Farm and Dairy, and Complaints within one week from the date of our unsatisfactory transaction with any advertiser, and within one month from the date that the advertisement appears, in order to take advantage of the guarantee. We do not undertake to adjust trifling differences between readers and responsible advertisers.

FARM AND DAIRY

PETERBORO, ONT.

MORE DAIRY COWS

Significant indeed is the following quotation from the Ontario crop bulletin for November: "Beef cattle are scarcer than usual. Some correspondents assert that the tendency just now is towards greater milk production."

This tendency to change from beef to milk production is noted the world over. As population becomes denser the superiority of the dairy cow as an economical producer of human food enables her to hold her place and increase in popularity when higher rents and higher cost of living make it necessary for the beef animal to go.

The fattening steer, gaining fifteen pounds weekly, yields 1.13 pounds of nitrogenous substance, while the dairy cow during the same period, when yielding ten quarts of milk daily, returns in this milk 6.6 pounds of nitrogenous substance or six times as much. Of mineral matter the ox stores during the week 22 pounds,

while the dairy cow secretes in her milk 1.35 pounds; again six times as much. The steer adds to his carcass 9.33 pounds of fat, while in the milk of the cow there are 6.33 pounds of fat, or two-thirds as much. During this time, however, the cow has secreted in her milk 8.32 pounds of milk sugar. Reducing this sugar to its fat equivalent, the cow will then have yielded as much fat, as has the steer.

We dairy farmers are engaged in the most permanent form of agricultural endeavor. As population in Canada increases, as it most certainly will, our industry will become more and more permanent and profitable, while that of the purely beef man will be operated on a much less extensive scale. There will always be a demand for a good grade of beef from those who can afford to buy. But from the great mass of consumers the demand will be for the more economical produce of the dairy cow. The number and proportion of dairy cows is bound to increase.

DUAL PURPOSE CATTLE

One would think from the amount of discussion on breeding problems that has appeared in farm journals in recent years that there would be little to say on the subject or little occasion for further discussion on this worn topic. There is, however, hardly a single phase of agriculture on which our farmers have so little accurate knowledge.

One of the most common mistakes that breeders of cattle are making is in clinging to the belief that they can produce beef and milk economically from the same animal.

The special purpose animal is the money-making animal. Those of our farmers who are making the greatest success of their occupation are those who are specializing in their breeding, whether it be for milk or beef production.

The experience of breeders in older countries bears out the claim that specialized breeding is the best breeding. The Channel Islands, Scotland, and Holland have been made famous by the breeding of specialized dairy cattle. Certain sections of England are known the world over as the home of some of our best breeds of beef cattle. In no country of the world has the breeding of dual purpose cattle met with any great degree of success.

The arguments most frequently heard in favor of the dual purpose cow is that it is better suited for the average farmer who is not capable of looking after a high class dairy herd. This is an argument for the continuance of ignorance. Those of our farmers who are not capable of managing a specialized herd will soon be forced out of business anyway. It is better that they realize immediately that this is an age of specialization in the breeding of cattle as well as in all other lines of industry and adapt themselves accordingly.

The dual purpose cow is a cow for the rich man. We farmers who have to make our living by the production of our herds will do well to specialize in our breeding operations.

INTENSIVE FARMING MOST PROFITABLE

A small farm, well tilled, ranks high as a profit maker. The following personal letter received by Farm and Dairy from Mr. J. W. Clark, of Brant Co., Ont., is a farmer well known to Farm and Dairy readers, is illuminating in this particular:

"I have just finished packing 550 'barrels of apples, running 80 per cent No. 1, from five acres of 'orchard.' These apples will net me \$1,300 after all expenses are paid. It would take a lot of grain 'to bring that amount of cash. 'We had two tons of honey that 'sold wholesale at eleven cents a 'pound. We have sold a lot of our 'chickens at \$10 to \$25 each.'"

Mr. Clark, by specializing in poultry, fruit and bees, has been making an average income exceeding \$4,000 a year from his 25 acres. He will not be behind this year. Through specializing and producing only first quality products, he obtains the best prices for all that he produces.

The small farm, well managed, is the hope of Eastern agriculture. Mr. Clark's success on a few acres is a shining example for the emulation of young men who would like to start farming in Ontario, but have not the capital to start on a large farm.

Many of our "larger" farmers, now land poor, may, with great ultimate profit and satisfaction to themselves, turn more to intensive specialties such as fruit, bees and poultry, for which much land in Ontario and the Eastern Provinces is especially adapted.

The most telling argument in favor of using pure bred sires in grading up the dairy herd is the experience of our most successful dairy men. Elsewhere in

Practical Demonstrations

this issue, two dairy men whose farms secured high places in the Interprovincial Dairy Farms Competition conducted by Farm and Dairy, tell in their own words of the success that they have had in the use of pure bred sires. Mr. Bell, of Carleton County, has doubled the production of his herd through the use of pure bred Holstein blood. Mr. Wightman, of Hengary County, by the persistent use of pure bred Ayrshire sires, has a herd that, for commercial purposes at least, is the equal of any of our pure bred herds. Experiences such as these should convince any hard-headed business farmer that he can't afford not to use pure bred sires in improving his dairy stock.

Our winter fairs are worthy of the strongest support that we farmers can give them. They must be numbered as one of our best educational institutions.

Winter Fairs

Side shows, horse races and other attractions that so often detract from the educational value of fall fairs are not permitted at our winter fairs. Our farmers appreciate a fair run on such purely educational lines as is proved by the support that they have given those fairs in past years. The fairs at Guelph and Ottawa have grown

steadily in number of exhibits and in gate receipts. The Maritime Winter Fair has been equally successful, and now the winter fair idea is gaining ground in Western Canada. Let us show our approval of the educational character of our winter fairs by visiting the nearest one ourselves and by making its value better known in our own communities.

The issue you are reading is the largest by considerable margin of any we have ever published in this season of the year—if not Ontario has the Conservation

This Issue record for commercial advertising carried in any single issue. We introduce to you for the first time many new advertisers. It will pay you to read their advertisements. Remember these firms are all reliable and we guarantee them to you as per our Protective Policy printed on this editorial page. Write them for their descriptive literature concerning the articles you are thinking of getting.

VI

Advertising is not always successful. And some successes which appear to have magically sprung up in a night through the miracle of advertising results, in truth came only after a period of almost heart breaking efforts to pay the first advertising bill.

Many advertising failures are caused by the advertising not being carried far enough to round the turning point.

A temporary stab at advertising is not likely to be very successful.

Of course returns often do come at once. In some kinds of farm paper advertising one or two insertions is all that is necessary. But the basic principle of successful advertising is to **KEEP EVERLASTINGLY AT IT.**

JOHN WANAMAKER on this point said, "ADVERTISING DOESN'T JERK, IT PULLS. It begins very gently at first, but the pull is steady. It increases day by day and year by year, until it exerts an irresistible power."

What advertising has impressed you the most? How about the kind that caused you to buy? Did it jerk? Or, pull?

WHO ARE THEY THAT HAVE GOTTEN NEXT YOU? as a reader of Farm and Dairy? Who amongst our advertisers are they that you think of and remember?

We'll venture it is **THE FIRMS WHO WEEK BY WEEK HAVE THEIR ADVERTISEMENTS IN THESE COLUMNS.**

These advertisements are placed with us by hard-headed, far-seeing business men,—men who demand satisfactory results.

There are several well-defined reasons why they are getting satisfactory results from this paper. One reason is because **FARM AND DAIRY IS A DAIRY PAPER,** and it is—

"A Paper Farmers Swear By"

What an Ontario province in the reign of Theably very fully. This great daily politics are tion of four platform directly re cause of the will go to t out any in the Conserv and the L elected to p here vivit the situation.

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The Political Parties and Agriculture

What are the political parties in Ontario promising to do for agriculture in the present provincial campaign? This is a question that probably very few farmers can answer fully. This is because none of the great daily papers on either side of politics are giving any special attention to outlining those links in the platforms of the two parties that directly relate to agriculture. Because of this, thousands of farmers will go to the polls next Monday with out any adequate conception of what the Conservative government in Ontario has done for the farmers during the past seven years, or of what it and the Liberals propose to do if elected to power. This being the case we herewith give a general review of the situation as it relates to agriculture.

WHAT CONSERVATIVES HAVE DONE
During the past seven years, the Conservative party has enacted considerable legislation and launched a number of progressive movements that are meaning much for agriculture. Among these might be mentioned the following: The Agricultural and Arts Act was abolished and a new act passed, by which the agricultural societies of the province, instead of receiving fixed government grants, irrespective of the value of the work they were doing, now receive their grants in proportion to the money they spend in prizes for agricultural purposes. This change has worked a great improvement. A great forward step has been the appointment of some nineteen graduates of the Guelph College as representatives of the Department in as many different counties. These representatives are creating a revolution in the agricultural methods formerly followed in the counties in which they are located.

The government also has established a fruit experiment station in the Niagara district, where one had long been needed: Through the district representatives, and by means of demonstration orchards, it has promoted a great revival of interest in fruit growing, and it has encouraged the shipment of fruit, by means of trial shipments, both to the western provinces and to Great Britain. The grants to the Agricultural College at Guelph have been increased, a start has been made towards reforesting waste lands in O'Leary County, the establishment of a small forestry reserve in Norfolk County, an effort has been made to induce emigrants to locate in both Old and New Ontario, demonstrators have been sent out with most beneficial results to show farmers how to survey and underdrain their land, the grants to the Guelph and Ottawa Winter Fairs have been increased, and the holding of field crop competitions has been encouraged. The work of dairy instruction has been greatly improved, owners of cheese factories and creameries have been forced to maintain them in a sanitary condition, and cheese and butter makers have been required to obtain government certificates. A heavy tax on factories for dairy instruction has been removed.

For the future the Conservative party is pledging itself to extend the use of the Hydro-Electric power to those farmers in Western Ontario who apply for it on conditions to be laid down by the government, and to do the same for the farmers of eastern Ontario as soon as the Hydro-Electric system is introduced in that part of the province. Beyond the gradual extension of the lines of work already enumerated, this appears to be all that the Conservative party is promising to do for the farmers of Ontario.

(Concluded on page 22)



A BLOCK HEAD

Never Appreciates SOLID FACTS.
But with you, the superiority of the

De Laval Cream Separators

Must stand unquestioned because 98 per cent. of the professional butter-makers of the WORLD use and endorse it. Over 1,300,000 sold to date.

Send for list of prominent users and handsome catalogue.

THE DE LAVAL SEPARATOR CO.

175-177 Williams St.

MONTREAL

WINNIPEG

VANCOUVER

FREE to Stock and Poultry Raisers

We will send absolutely free, for the asking, postpaid, one of our large sixty-four-page booklets on the common diseases of stock and poultry. Tells you 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. No farmer should be without it.

Now is the time to use Royal Purple Stock Specific. At a cost of only two-thirds of a cent per day per animal it will increase it 25 per cent. in value. It permanently cures Bots, Colic, Worms, Skin Diseases and Debility. Restores run-down animals to plumpness and vigor. It will increase the milk yield three to five lbs. per cow per day and make the milk richer. Royal Purple is not a stock food. There is no filler used in its manufacture, and we import from Europe all the seeds, herbs, bark, etc., and grind them on our own premises. Therefore we can guarantee it to you as being absolutely pure. We do not use cheap filler to make up a large package. We give you the best condition powder ever put on the market in a concentrated form. A tablespoon levelled off once a day is sufficient for a full grown animal. It prevents disease, keeps your animals in perfect health, and is absolutely harmless. It makes six weeks old calves as large as ordinary calves at one year of age. You can develop a cow in just one month's less time than you can possibly do without it at a cost of only \$1.50, saving you a month's work and food. A 50c package will last an animal 70 days. A \$1.50 package will last an animal 230 days. A \$5.00 package will last an animal 390 days. If you have never used it try it on the poorest animal you have on your place and watch results. If it does not produce better results than anything you have ever used or give you satisfaction, we will refund your money. Andrew Weir, of Wainfleet, Ont., says that he tried it on one cow, weighed her milk on the 16th, 17 lbs., on the 29th she gave 22 lbs. Dan McEwen, Canada's greatest horse trainer, says: "I have fed Royal Purple to the Eel and all my racehorses for 10 years. They have never been off their feed. Your cough powder works like magic."

Mr. Tom Smith, trainer for the Hon. Adam Beck, says: "We had a mare in our stables last fall belonging to Miss Clewton of Montreal. She could not feed her foal on account of scours, and she commenced using your Royal Purple Stock Specific. The results were wonderful. We found after using it three weeks we could feed her bran or any other soft feed and she actually took on 25 lbs. during that time."

Royal Purple Poultry Specific

will make your hens lay in winter as well as in summer, and yet a 50c package will last 25 hens 70 days or a \$1.50 package will last 200 hens 70 days as much as a 50c package, will last 230 days. It prevents poultry from losing flesh at moulting time, cures and prevents all the ordinary diseases,

An assorted order amounting to \$5.00 we will prepay.

What we wish to impress on Your mind is that we manufacture nothing but pure unadulterated goods. Our booklet gives over 400 recommendations for our different lines from people all over Canada. While we give you above the names of a few who have used it, our best recommendation is for you to ask any person who has ever used any line we manufacture.

Send Today For Free Booklet.

make their plumage bright and keeps them in prime condition. Mrs. Wm. Burnham, of Sandford, Ont., says: "I fed your Poultry Specific to 25 hens during the winter and sometimes got as many as two dozen eggs per day in February and March." Mr. Andrew Hicks, of Centralia, Ont., says: "I used your Stock Specific on 20 milk cows. They have increased 30 per cent. in their milk and I got even better results from your Poultry Specific. We had 60 hens laying eggs. When we commenced using Poultry Specific we were getting five or six eggs a day. In less than five days we got 150 eggs. These were the coldest days last winter. You can see the results at once after you commence using this material. When farmers get acquainted with Royal Purple brands they will never be without them."

Royal Purple Cough Specific

During the last four years there has been an epidemic cough going through every stable in Canada, which has been a great source of annoyance to horsemen. Our Royal Purple Cough Cure will absolutely cure this cough in 4 days, will break up and cure distemper in 10 days, absolutely guaranteed, 50c per tin, by mail 55c.

Purple STOCK AND POULTRY SPECIFICS

Royal Purple Gall Cure

Will cure all sorts of open sores on man or beast. Will absolutely dry up and cure scratches in a very few days.

Mr. Sam Owen, Coachman for the Hon. Adam Beck, says: "By following directions I find your Royal Purple Gall Cure will cure scratches and make the scabs peel off perfectly dry in about four or five days." Price 50c, by mail 55c.

Royal Purple Sweat Liniment

Will reduce any lameness in a very short time. Mr. Jno. M. Dalry, Coalman in London, says: "We have nine horses, constantly teaming coal, and have all kinds of trouble with them being lame at times. I have used your Sweat Liniment for a year back and have never known it to fail to cure all sorts of sprained tendons, etc." Price 50c, by mail 55c.

Royal Purple Lice Killer

This is entirely different from any lice killer on the market. In order for you to understand the process of manufacture of this lice killer you will have to send for one of our booklets, as we give you a full history of it there. It will entirely exterminate lice on fowls or animals with not more than one or two applications. It smothers them. Price 25c, by mail 30c.

Our booklet gives over 400 recommendations for our different lines from people all over Canada. While we give you above the names of a few who have used it, our best recommendation is for you to ask any person who has ever used any line we manufacture.

W. A. JENKINS MFG. CO., London, Ont.

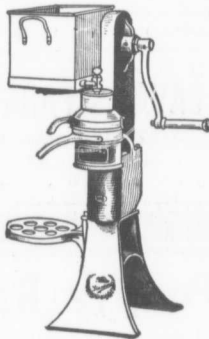
S-T-A-N-D-A-R-D

Spells Glad Tidings

TO

Farmers Who Use
Cream Separators

"None Other Can Give Equal Results"



You will be interested to know that the "STANDARD" embodies every important improvement made on Cream Separators in the past ten years, and besides has four (4) distinct improvements (our own inventions) excluded from all others by our patents.

Wishing all the readers of Farm and Dairy the Compliments of the Season.

The
Renfrew Machinery Co.
Limited.
Sussex, N. B. Renfrew, Ont.

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.

After the Churning

Prof. H. H. Dean, O.A.C., Guelph.
Many buttermakers seem to think that when the butter is made their whole duty is performed. But this is not so, unless the cold-storage and marketing are entirely taken out of their hands.

Better cold-storages are needed at creameries, but it is more important that butter shall be sent once a week to a cooperative or private cold-storage where a temperature under 32 deg. F. can be maintained until the butter is ready to go into consumption.

Under marketing, I would lay down this general principle—deal as directly as possible with the consumer. When the history of the selling of farm and dairy products is written next century, historians and political economists will stand in amazement at the wasteful methods of marketing which were so common in the nineteenth and early part of the twentieth centuries. They will ask themselves how it was possible for an apparently well-informed race of people to be so stupid as to allow a class of men (middlemen) to absorb the greater share of the profits on goods manufactured with so much skill upon farms and in farm factories—creameries and cheeseeries.—Extract from an address.

How Much Ice to Store

On the basis of a 20-cow dairy it requires about 500 pounds of ice to cool the cream annually produced by one cow. To this amount should be added 500 pounds more for waste, or a total of 1,000 pounds a year for each cow.

This amount is sufficient to keep the cream sweet and in good condition, so that for a herd of 20 cows 10 tons of ice would be required. In smaller dairies the waste would be greater and proportionately more ice would be required, while with larger ones a proportionately less amount would suffice.

There are approximately 50 cubic feet of stored ice to the ton, consequently for 10 tons it would be necessary to fill a space 10 by 10 by five feet. An ice house for this quantity should be built 12 by 12 by eight feet, which would allow for 12 inches of sawdust on the sides (sufficient to keep ice under ordinary conditions) and enough space on the top for packing and covering the ice.

Political Parties and Agriculture

(Continued from page 21)

The Liberal party, through its leader, Mr. N. W. Rowell, admits that what the government has done for the farmer is good as far as it goes, but that it has not done nearly enough. It blames the party for not having taken action to ascertain the causes of the great depopulation of the rural districts of the province, and pledges itself to appoint a royal commission to look into this matter. This commission is to be given power to investigate the effect combines are having in advancing the price of the goods the farmers buy, the reasons why the middlemen take such a large share of the price the products the farmer produces finally sell for to the consumer and the reason why farm land is remaining stationary in value while the value of the land in our towns and cities is increasing in value by millions of dollars a year.

The Liberals also criticise the government for not having done more to increase immigration into the pro-

vince, and pledge themselves to appoint a minister of the Crown who will give this matter special attention. The Liberals would also take over the trunk telephone lines of the province to ensuring better connections for local telephone companies. Mr. Rowell finds fault with the government for not having done more to reforest the waste timber lands of old Ontario, and is willing to give the municipalities within these areas extra assistance to reforest them. He blames the government for having conducted an investigation into the horse industry of the province some years ago, in-as-much as while this investigation revealed the fact that thousands of unsound stallions were being used for breeding purposes, nothing has been done to remedy this condition. The Liberals contend that every stallion should be inspected by a government official, who should have power to issue a certificate showing the animal to be sound or unsound, as is done in Manitoba and elsewhere.

The Liberals point out also, that weeds, especially such weeds as the show stistle, are spreading in Ontario largely because some farmers (Continued on page 23)

CREAMERY FOR SALE—A modern creamery in Central Ontario; plant in excellent repair; first class storage, convenient ice supply, excellent water and drainage, and what is more important, a very profitable business. Good reasons for selling. Don't reply unless you mean business.—Box M. Farm and Dairy.

CHEESEMAKERS WANTED

And Dairy Men to sell our special lines of Nursery stock during the Fall and Winter months. We pay highest commission, furnish free handbooks and supply your customers with first-class stock. We engage agents on full or part time. Write at once for particulars.

STONE & WELLINGTON,
Nurserymen, Toronto.

FOR SALE Up-to-date cheese factory and dwelling; good well. One acre land; received \$15 per 100 lbs. cheese for manufacturing, 1/4 mile to school.

Reason for selling—accepted Government position. This factory runs year round, and receives \$200 to \$300 De. mill per day in summer. Address

FRED S. HADLER, GREEN LEAF, WIS.
U.S.A. R. R. No. 3, Box

Profit From Knowing Your Cows

I have at reasonable prices Spring Balance Scales, Babcock Testers, Cow Test Outfits, Dairy Supplies, Churns, Brushes, Dairy Utensils, Glassware, Thermometers. Write me of your requirements.

G. A. GILLIESPIE, PETERBORO, ONT.

XMAS A Most Desirable Gift either for grown-ups or children, on the farm or "Farm Dairying" by Les La Rose. Price \$1.50 postpaid.

Dept. **FARM AND DAIRY** Peterboro Ont. Book

WANTED

A first-class Creamery in Central Ontario, with good connection. Reply giving full particulars to Box 340, Farm and Dairy, Peterboro, Ont.

CREAM

WANTED

We are paying 31c per lb. butter-fat for cream of good flavor. We furnish cans and pay express charges both ways. Ship your cream to us.

PROMPT RETURNS

Flavelle-Silverwood
London, Ont. Limited

Christmas Presents

That Do Not End with Xmas
But go right on during the entire year

At this Xmas season we wish to extend our good will to our people who read Farm and Dairy. We extend it in this tangible, practical way that you can appreciate.

Your own renewal subscription for 12 months and one new yearly subscription to Farm and Dairy—for both we will accept the low Xmas rate of only \$1.50.

Because of our greatly increased circulation we will have greater value for you than ever in Farm and Dairy next year.

At our Christmas Gift Rates we will allow you to send Farm and Dairy to friends.

3 NEW SUBSCRIPTIONS \$2.00
5 NEW SUBSCRIPTIONS \$3.00

(United States Subscriptions each 50c extra)

Why not settle all your Christmas gift obligations to your farmer friends and neighbors, and your hired men by sending gift subscriptions to Farm and Dairy?

The gift will please, instruct and help-to-make-more-money and live a better life every time Farm and Dairy is issued—32 times throughout the year.

An attractive Christmas Card, announcing the gift and giver will be mailed to arrive on Christmas morning as directed, with each Christmas gift subscription.

Why not send us many names on your gift list and avoid the worry of shopping and the dissatisfaction with gifts purchased?

Farm and Dairy is sure to please everyone interested in farming, and if a name is already on our subscription list, you will be notified at once to send another, so there is no chance of duplication.

SPECIAL NOTE.—Order now before Christmas rush to make sure the gifts will be received on Christmas Day. Orders for the far East or West to be in time must reach us by December 16th, others by December 29th. Give full names, or initials, and full addresses of both subscriber and sender.

Farm & Dairy
PETERBORO, ONT.
'A Paper Farmers Swear By'

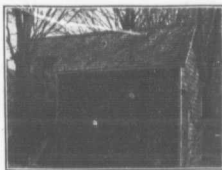
Cheese Department

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

A 100 per cent. Investment

The joint stock plan of building a cheese factory has proven itself a great success at the Ideal factory in Northumberland Co., Ont. One hundred per cent on the investment has been realized so far by the shareholders.

The stock was subscribed in \$5 shares, with five years to pay. The first season that the factory ran, 1910, the stockholders paid \$700 on the factory, and as the profits on operation were \$700, they practically made their



A Good Investment says the Owner

Good milk is the basis of good dairy products. And a good milk house goes a long way towards ensuring good milk. Mr. C. W. Bates, of Northumberland Co., Ont., who erected the house here illustrated, at a cost of \$50, says it is a good investment. A house of this kind on a farm would be a great boost for the dairy industry.

—Photo by an Editor of Farm and Dairy—
first payment without expense to themselves.

Mr. Denerest, the maker at this factory, recently told an editor of Farm and Dairy that after their experience at the Ideal factory, dairy-people at this section are convinced that the joint stock plan is the only plan on which cheese factories should be erected.

Encourage Cow Testing

L. A. Zuleit, Kingston, Ont.

The lump sum that a patron receives from the factory is not so important as the profit that it represents.

Some of our farmers seem to be keeping cows only for their society. In Eastern Ontario the average production per cow for the factory season of 1910 was 3,300 lbs. of milk. But there are many herds averaging 5,000, 6,000 or 7,000 lbs. of milk a cow. There must be some very poor cows somewhere. It is requested to find them it is to test individual cows.

The cheese-maker can help to bring up the standard of production of the cows of his patrons. If the patron finds that the factory is doing an interest in his business he will do almost anything he is asked to do.

The cheese-maker should be a little more than a cheese maker. He should have an intelligent knowledge of farming and be able to intelligently discuss cow test and similar questions with his patrons. If the maker be tactful he will be able to induce patrons to test their cows, and in the end this course will mean more milk and better milk at the factory.

All creamery men—patrons, butter makers, buyers and others interested in dairying—are requested to meet at the Dairy School, Guelph, on Thursday, December 14. Such subjects as the salting of butter, pure cultures, the grading of cream, care of cream on the farm, and so forth, will all be discussed by the creamery men present.

Political Parties and Agriculture

(Concluded from page 22)

neglect to exterminate them. Their farms thus become seeding centres for other farms throughout the district. As a remedy they propose to appoint provincial inspectors with power, where necessary, to enter such farms and destroy such weeds as the sow thistle, charging the cost of the work against the owners of such farms.

The government is blamed also for not having done more to prevent the spread of such diseases of fruit as the San Jose scale. It is claimed that their spread is due to the fact that their control is left in the hands of inspectors that the local municipalities are supposed to appoint. Because many municipalities do not appoint these inspectors, the pests are said to be spreading. The government propose to appoint provincial inspectors to look after this work.

As a means of advertising the fruit lands of Ontario to the world and of encouraging immigration into the fruit districts of the province, the Liberals promise to promote the holding in Ontario of a National Apple Show, and thereby also increase the interest taken in fruit growing. They will also establish fruit packing schools as has been done in British Columbia, and pledge themselves to establish demonstration farms in different parts of the province on the lines recommended by Dr. Jas. W. Robertson. Their proposal is to select capable farmers in different parts of the province and to pay them enough to enable them to introduce modern methods in all branches of their farm work and then to report results.

The foregoing, we trust, will be found to be a fair presentation of the positions of the two parties as they relate to agriculture. It is somewhat surprising that so much has been accomplished for agriculture in view of the fact that as a class farmers have not made any concerted effort to lay their claims for consideration before either political party. The fact that the Liberals are offering to do more for agriculture than are the Conservatives will be largely offset by the fact that the Ross government was very corrupt politically, while the Conservatives have given an honest, capable administration. It is gratifying that the present leaders of both parties are known to be honest, able men.

JOIN THE WORLD'S BIGGEST ARMY OF Satisfied Users. Own a SHARPLES Tubular Cream Separator

Careful buyers choose the Dairy Tubular because it costs less, discharges twice as fast and twice as much cream. Its operation is guaranteed forever by the makers. No other has these advantages. Those using others, are rapidly discarding them for Sharple's because Sharple's requires only pay for themselves. You can't get any other like a Tubular. Then you buy better with others? Write for catalog 25.



SEE SHARPLES SEPARATOR CO. Toronto, Ont. Winnipeg, Man.

CALVEY RAISE THEM WITHOUT MILK

Steele, Briggs Seed Co., Ltd., Toronto, Ont.



SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

Any person who is the sole head of a family, or any male over 18 years old, may homestead a quarter section of available Dominion land in Manitoba, Saskatchewan or Alberta. The applicant must appear in person at the Dominion Lands Agency, or sub-Agency, for the District Entry by proxy may be made at any agency, on certain conditions, by father, mother, son, daughter, brother or sister of intending homesteader.

Duties—Six months' residence upon and cultivation of the land in each of three years. A homesteader may live within nine miles of his homestead on a farm of at least six acres solely owned and equipped 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 \$10 per acre. Duties—Must reside upon the homestead or pre-empt 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 per acre. Duties—Must reside six months in each of three years, cultivate fifty acres and erect a house worth \$250.

W. W. COBET, Deputy of the Minister of the Interior. P. B.—(Another) publication of this advertisement will not be paid for.

\$1.95
AND UPWARD
SENT ON TRIAL.
FULLY
GUARANTEED.

—AMERICAN— SEPARATOR

A brand new, well made, easy running, easily cleaned, perfect skimming separator for \$15.95. Skims one quart of milk a minute, warm or cold. Makes thick or thin cream. Thousands in use giving splendid satisfaction. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements. Our richly illustrated catalog tells all about it. Our wonderfully low prices on all sizes and generous terms of trial will astonish you. Our twenty-year guarantee protects you on every American Separator. Shipments made promptly from **ST. JOHN, N. B. and TORONTO, ONT.** Whether your dairy is large or small, get our great offer and handsome free catalog. **ADDR: 33, AMERICAN SEPARATOR CO., BAINBRIDGE, N. Y.**



BOX 1209, BAINBRIDGE, N. Y.

DELIVERY-PAID CHRISTMAS BOXES

From the SIMPSON Store

Your Christmas money will go further than ever before if you make this a "delivery-paid" Christmas and get everything you need from The Robert Simpson Co., Ltd. Here are some examples of our great values. Don't put off your ordering. Send it in to-day.



5.00

BS-9884. Here's a reliable watch for men or boys. The dust-proof case is of plain nickel design with screw back and front. Fitted with a to-size 17, needed movement exposed winding wheels, patent haquet hairspring adjusted to climatic variations and with jewels set in burnished plate. Every watch guaranteed. Price, delivered, **5.00** complete with silver-plated chain.....

L-9876. Women's Boudoir Slipper, soft kid leather, American make, large silk pom-pom on vamp, padded insole, soft flexible leather sole, colors, red, pink, blue, tan, black and mauve. Sizes 3 to 7. Price, delivered, **1.25**

Women's Waltham Watches
15.25

Including a long Gold-Filled Chain

BS-9885. Give her this Waltham watch and as this perfect little timekeeper ticks off the minutes of the years to come she'll look back with pleasant memories of the Christmas Day it arrived. You may choose a hand-engraved, plain or engine-turned, heavy gold-filled hunting case. In it will be fitted an O size Waltham movement, running on 13 burnished-set jewels, a haquet hairspring, with a compensated balance adjusted to climatic extremes, and exposed winding wheels. Placed in any position, this watch will keep accurate time. Note: No extra charge for engraving on case a script monogram. With each watch will be sent a long, dainty gold-filled chain with jewel-set side. Price, delivered, **15.25**

Buckskin Moccasin of best quality and Indian trimmed. Price, delivered.....

B-9874. Women's Watch Fob made from splendid black silk ribbon, adorned with handsome gold-filled signet mount and charm. Safety pin attachment. Price, delivered, **.98**

B-9873. Give one of these gold-filled, pearl-set pendants, with fine curl necklet, 6 inches long. No gift will be received with more pleasure. Price, delivered, **.98**

B-9875. Here's 10Kt. Gold Rings in a variety of styles; signet for monogram; set with a single whole pearl; single stone birthday rings for any month. Order by letter. Your choice, each Price, delivered, **.98**

BS-9883. This beautiful Salad Bowl and Servers will give lasting pleasure—a pleasure lingering long after the memory of Christmas Day has faded. The pattern is a correct imitation of Crown Derby, with a silver-plated rim. Silver-plated spoon and fork with handles to match. Price, delivered, **3.98**

Prices, delivered—

L-9877. Men's sizes, 6 to 11.....	1.25
L-9878. Boys' sizes, 1 to 5.....	.95
L-9879. Women's sizes, 3 to 7.....	.95
L-9880. Misses' sizes, 11 to 2.....	.75
L-9881. Children's sizes, 7 to 10.....	.75
L-9882. Infants' sizes, 3 to 6.....	.50

We publish no Christmas Catalogue this year, but our Fall and Winter one is crowded with Christmas suggestions. A post card will bring it. Whether you order fifty cents' or fifty dollars' worth of goods, WE PAY ALL DELIVERY CHARGES.

The **SIMPSON** Company Limited
TORONTO

The Most Welcome Xmas Gift OF ALL



The gift that does not fade... Will not endanger your health by exposing you to the steam and hard work of the wash tub. Will save your time by doing the washing in less than half the time required by the old way.

J. H. Connor & Son
OTTAWA, ONT. Limited

AGENTS in your district for new subscriptions to this practical journal.

The Second Chance

(Continued from page 2) you make me wish I was twenty years younger!

Pearl looked in her dictionary to find what "philosopher" meant, but even then she could not imagine why Mr. Donald wanted to be twenty years younger.

After Pearl's visit to the Perkins home, when Martha showed her all her treasures, her active brain had busy devising means of improving Martha, mentally and physically.

Be orderly. A disorderly, careless woman will never have a comfortable home. Be punctual. Young girls, and some women too, are never at the beginning of anything.

OUR HOME CLUB

Winter Evenings

Some evening when you gather your inner circle of friends around you, "go into committee of the whole" and consider the most attractive character with whom you have been acquainted among your book friends.

One sister had been reading "The Deemster" by Hall Caine, and considered Mona as her ideal. Another brother who was a Dickens' lover, said that Sydney Carton, in the "Tale of Two Cities," was his choice.

Many consider Thackeray's "Colonel Newcome" as one of the most attractive—"Rob Roy."

Those Automobilists

Does the law of this country give the man who sits in an automobile the privilege of monopolizing our country roads and of making us minor individuals take the ditch?

When automobiles first appeared on our roads our horses were frightened.

I was giving the boss my opinion on the subject, but he said that it did not matter how much we farmers kicked that the city people always got the best of it.

The only kicking I ever heard him do was to his neighbors. If he and they would kick at the proper time and in the proper place they would receive more attention—"Another Hired Man."

Bits of Wisdom

Many a self-made man was made by his wife.



Milking the Heifer "Jessie"

The two little girls of Mr. and Mrs. G. A. Brethen, Peterboro Co., Ont., took a great interest a year ago in milking the calf Jessie.

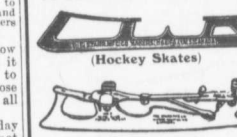
to get along with a man. It doesn't sound much like kindly co-operation though, does it?

Never allow anyone to read a letter intended for your eyes alone. It is as if you were telling the world what you are thinking.

Never invite a man without his wife, or a woman without her husband, except to functions where men alone or women alone are to be asked.

These laws less than the laws of difficulties, when they are small in character, will be the affairs of the great to ourselves to we permit possession of is mighty can prevail, that the ver certain to h pension law v abandon our we resolute coming, wit qualities that < the "compe vance," and in power of proportion to forth. To en ensure our out our small that unless come hard a great law become like which also a Christ is to

Not One Boy need be Without Skates



(Hockey Skates)

(Spring Skates)

Your Choice

of either Hockey or Spring Skates in return for only one NEW subscription to Farm and Dairy taken at only \$1.00 a year.

A better pair Nickle-Plated ones—for only two NEW subscriptions.

Girls!

This Offer is for You, Too

See one of your father's neighbors after School or on Saturday. Get him to subscribe. Then write us, sending the subscription, and we will send the skates.

In ordering skates send the size of the foot in inches from the extreme heel to the extreme toe.

FARM AND DAIRY, PETERBORO, ONT.

FREE! \$200.00 IN CASH AND 1,000 VALUABLE PREMIUMS GIVEN AWAY.

1st Prize, \$50.00 in Cash 3rd Prize, \$35.00 in Cash
2nd Prize, \$40.00 in Cash 4th Prize, \$25.00 in Cash
5th to 9th Prizes, each \$10.00 in Cash.



Remember, all you have to do is to mark the faces, cut out the picture and write on a separate piece of paper the words, "I have found the seven faces and marked them."

We do not ask You to Spend One Cent of Your Money in order to enter this Contest

Send your answer if you will, to the Editor. Mail telling you whether you appear in correct or not, and the names and addresses of persons who have recently received one of the Thousand Dollars and First Prizes from this contest.

Table with 2 columns: Name and Address, and Prize Amount. Includes names like Mrs. W. A. C. Orr, Mr. B. B. B. B., etc.

Address: BOVEL MFG. CO., BOVEL BUILDING MONTREAL, CANADA.

writer, show this advertisement to some friend of yours who can write plainly and neatly, and have him or her enter this contest in his or her name for you.

First, agree with the person who is to do the writing, that you are to receive any prize of money or prize that may be awarded.

This may take up a little of your time but there is TWO HUNDRED DOLLARS IN CASH and One Thousand premiums given away, it is worth your time to take a little trouble over this matter.

Remember, all you have to do is to mark the faces, cut out the picture and write on a separate piece of paper the words, "I have found the seven faces and marked them."

"All Our Very Own"

These little girls, daughters of Wm. Feindel, Peel Co., Ont., are very proud of their own pony and cart and are their own endle source of satisfaction and pleasure.

When glancing over the Saturday Globe last week I see that I am not the only one who enjoys the sport of smooching when automobiles are mentioned.

It seems to me that we should be able to get laws that would make autos keep a reasonable speed and also to give half the road to the man who made it.

It seems to me that we should be able to get laws that would make autos keep a reasonable speed and also to give half the road to the man who made it.

They are neither man nor woman, They are neither brute nor human, They are ghouls.

They are ghouls. It seems to me that we should be able to get laws that would make autos keep a reasonable speed and also to give half the road to the man who made it.

They are ghouls. It seems to me that we should be able to get laws that would make autos keep a reasonable speed and also to give half the road to the man who made it.

The Upward Look

The Reward of Our Actions

For whatsoever a man soweth that shall he also reap.—Galatians 6, 7.

God rules by law. Everything God does is in accordance with the great laws that He has ordained. The sun, the moon, the countless stars in the heavens are held in their respective orbits or move in their appointed places according to the Divine will. So wonderful is the precision with which they act that our astronomers, even with the limitations of the human mind, are able to foretell many years in advance, even to the hour and minute, when certain comets will appear and disappear, and when eclipses of the sun, moon or certain stars will take place. We have become so familiar with these facts we have almost ceased to wonder over them. And yet they teach us a great lesson.

The same Divine Being who created this wonderful system created us, and just as the firmament is governed by law, so are we as individuals governed by laws that are even greater, because spiritual in nature, and that are fully as exact. Among these laws are those which decree that we can't think a kind thought or do a kind deed without our whole nature being ennobled, brightened, and enriched thereby. The measure of the benefit we thus receive is in exact proportion to the kindness of our thought and deed. The more loving it has been, the greater the self-sacrifice it has involved, the greater is the resultant benefit God has decreed that we shall receive.

Another but a reverse law enacts that we cannot do an unkind, unthoughtful or do an ungenerous act without our spirit being dwarfed and suffering in consequence. And, again, it is decreed that the injury we thus suffer is in proportion to the uncharitableness of our thought and act.

These laws are operating ceaselessly in the minutest details of our lives. When we are confronted by difficulties, no matter how great, or how small and no matter what their character, whether they pertain to the affairs of our own households or to the great world outside, if we allow ourselves to take fright at them, if we permit thoughts of fear to take possession of us and forget that God is mighty and that with His help we can prevail, then another law ensures that the very things we dread are certain to happen to us. The companion law is that when we refuse to abandon ourselves to our fears, when we resolutely set ourselves to overcoming, with God's help, the difficulties that confront us, the horizon of the impossible recedes as we advance, and we grow in strength and in power of accomplishment just in proportion to the effort that we put forth. To entertain thoughts of pride ensure our becoming proud, to entertain our minds on money means that unless we are careful we will become hard and cold like money. The great law behind it all is that we become like what we think most of, which also means that to think about Christ is to become Christ-like.

When we bear these great truths in mind, what a power they have to transform our lives. The knowledge that an infinite law has decreed that the consequences of our thoughts and deeds follow close, and with absolute certainty, upon their admittance into our lives and that we are constantly receiving here on earth the reward for our actions or our thoughts, both for good and for evil, brings home to us the great truth contained in

our text that whatsoever a man soweth that shall he also reap. If, therefore we would have our lives filled with blessings we must endeavor to work in harmony with God's laws. There is no use in our kicking against the pricks. To do so will not alter the working of these laws one iota. God's will is the only way. It is the way for us.

Just in proportion as we strive to follow it, yes, in exact proportion to our endeavor will our lives grow

that so far as the kitchen cabinet is concerned it comes in most useful at the time of making preparation for the festive season of Christmas and New Year.—Mrs. N. C. Campbell, Brant Co., Ont.

A Cheap Satisfactory Bath Room

For a long time farmers and people living in small towns have felt the need of equipping their homes with a bathroom, but owing to the great expense of installing a system of water works they have been denied the luxury. Manufacturers have been quick to see this lack, and fill it. Farmers and their wives are now offered a satisfactory bath outfit, sanitary and attractive, that can be installed complete with force pump and storage tank for about \$75.00.

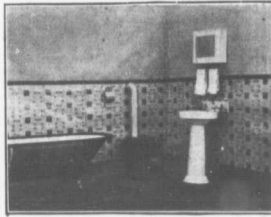
This new system is just as satisfactory as any waterworks system, excepting that it gives the owner a little more trouble to take care of it; that is, it is necessary once a month to empty the inner tank of the closet and to occasionally empty the contents of the pedestal of the lavatory. On the other hand it is more sanitary as the chemical used in the closet kills all disease germs as well as all other odor. One of the great difficulties with regular waterworks system in country homes is that it is necessary to have a cesspool to receive the refuse from the bathroom. This frequently reaches the well and causes typhoid fever, etc.

The outfit to which we refer, an illustration of which appears here, consists of a Sanitary Chemical Closet and a Rowe Sanitary Lavatory and bath.

To Prevent Tuberculosis

Don't live in a room where there is no fresh air.
Don't work in a room where there is no fresh air.
Don't sleep in a room where there is no fresh air.

Be cheerful. A bright, smiling face makes everyone happy, and a silent, fretful expression is just as likely to make others cross. Even when it rains out of doors let there be sunshine within.



Within the Reach of Every Farmer

A bath equipment similar to the one here illustrated can be installed for \$75. For information see the article adjoining in influence and in power and in harmony with God and with man.—I. H. N.

Vacuum Cleaners in House Work

In these days of sanitation, scarce and unsatisfactory high-priced help, every woman ought to have a vacuum cleaner to help her in her work, and enable her to do her work better. The vacuum cleaner gets rid of all the dust, whereas with the old fashioned broom, one stirs up the dust in one place to settle in another, and there is the extra work of always dusting and cleaning.

When one uses a vacuum cleaner the dust is all taken into and held by the cleaner, and none of it is scattered about. Vacuum cleaners are now made so easy to handle, they last for so long a time, and are so comparatively inexpensive that any person can afford to have one. A great many farmers' wives in Oxford county, Ontario, now find them to be invaluable and something that they would not do without. An editor of Farm and Dairy, who was in Woodstock recently, learned of over 25 farmers near Woodstock who have purchased the King Edward Vacuum Cleaner manufactured in their local city.

It is well that women folks who keep house nowadays, without the assistance of servants or hired girls, have the opportunity of availing themselves of such modern labor savers as the Vacuum Cleaner, which does so much to lighten housework where it is used.

About a Thing we Need

I am often given to thinking how much we miss, of which we don't know. The idea comes to me afresh at this Xmas season as I reflect upon the many advantages of my kitchen cabinet and the many steps it saves me.

Two years ago I was made a present of a Kitchen Cabinet. We had talked for some time about having one. And when it came we soon found out that we had it at all right.

I would no more think of doing without my kitchen cabinet than without my sewing machine. It is of great service, and of service many times daily.

There are many things we women folks are too often content to do without in our kitchens, when we could just as well have these things. The Xmas season is an ideal time to satisfy these wants. And be it known

MAXWELL'S HIGH SPEED CHAMPION
is the Washer for a Woman

In the first place, Maxwell's "Champion" is the only washer that can be worked with a crank handle at the side as well as with the top lever. Just suit your own convenience.

Another Maxwell feature—Lever and Balance Wheel are accurately adjusted and work up so speed that the washer runs easier even when you have stopped working the lever. There's no doubt about Maxwell's "Champion" being the easiest running washer on the market.

Write for new illustrated booklet if you don't have a Maxwell's "Champion" Washer.

DAVID MAXWELL & SONS, St. Mary, Ont.

WANTED 10,000 Readers of this paper to show Farm & Dairy to their friends and neighbors. Steady work for a really representative in your locality. Liberal pay in cash.

BOYS! FOR ONTARIO FARMS

Will arrive in February, March and April, aged between 15 and 19 years. As number is limited, application should be made at once. Write for application form.

R.A. MACFARLANE
BOY FARMER LEAGUE
Drawer 126 WINONA, ONT.

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

FARM & DAIRY, Peterboro, Ont.

How the Hamilton Kitchen Cabinet Saves Time, Labor, Health, and Pays for Itself

WRITE today for our free booklet. It tells how the Hamilton Kitchen Cabinet forever does away with Kitchen draggery, improves the appearance of the Kitchen and saves its own cost many, many times. The Hamilton combines all the latest and most scientific Kitchen Cabinet features.

We will ship you a Hamilton Kitchen Cabinet subject to your approval. If you are not pleased with it, return it to us at our expense.

Our booklet tells how you can pay for this wonderful device while it is paying for itself. Every housewife ought to have the Hamilton Kitchen Cabinet. It saves half your food. Write today, before you forget.



HAMILTON KITCHEN CABINET

The HAMILTON INCUBATOR CO., LTD.
HAMILTON, ONTARIO

NOTICE—WE WANT DEALERS TO HANDLE OUR GOODS IN SOME LOCALITIES

An Ideal Christmas Present

The Peerless

Sherlock-Manning Piano

20th Century



STYLE 80 Mahogany or Walnut

If you desire a Christmas present that will undoubtedly bring greater pleasure to every member of the family

Select a SHERLOCK-MANNING 20th CENTURY PIANO

The Christmas stock is just coming through the factory. The pianos in this stock will compare, part for part, with any Exhibition instruments. They are prepared from the same stock as the Toronto Exhibition pianos—the same magnificent veneers that attracted so much favorable comment at Toronto—the same plate glass finish, through which the beautiful figure of the genuine wood beneath shows clearly. The Sherlock-Manning 20th Century Piano is noted for its beauty and permanency of tone—a tone that will last.

We are conducting a special advertising campaign, so that you are not only offered a choice of an Exhibition piano but we undertake to make a remarkable saving for you in the first cost.

In addition to the style 80 shown, we manufacture five other styles and designs of pianos, and five styles of player pianos. Let us send you free one of our beautiful art catalogues, describing fully the different instruments, and explain our easy method of payments. You will save money by writing now for our catalogue.

The Sherlock-Manning Piano and Organ Company

LONDON, : : : ONTARIO
(No Street Address Necessary)

Something New

A Xmas Offer

Recently Farm and Dairy completed arrangements with a Canadian firm of manufacturers for a supply of fountain pens of a new model which we are going to give away to our people who help us.

These pens are a new model, the first of which have just been made in Canada. It is called the "WRITE-AWAY" pen. It is one of the most perfect working pens, and most simple in construction that we have ever used.

We secured these pens at a price that enables us to make an offer before unheard of liberal offer.

This "Write-away" pen, a model of one sawed in two is here shown, is guaranteed by the makers.

The manufacturers guarantee that:

- IT WON'T BLOT—the Patent feed plunger regulates the flow of ink.
- IT WON'T CLOG and
- IT WON'T LEAK.

It will write as long as there is a drop of ink in it.



FOR 3 WEEKS

We are going to give these pens away as a SPECIAL XMAS PRESENT OFFER to our people who help us to get new subscribers for Farm and Dairy. Every person who during the next two weeks will send Farm and Dairy one NEW Subscription from a friend or neighbor taken at only \$1.00 a year WILL BE GIVEN THREE OF THESE PENS. Every member of your family can now have a CANADIAN-MADE guaranteed fountain pen. Every school child can have one. The pens will be sent postage paid. The pen is a marvel. We have used it and it is very satisfactory. It is an excellent fountain pen for STUDENTS, BOOKKEEPERS, SALESMEN and PROFESSIONAL MEN. It's an ideal pen for anybody. See one of your friends at once. Get them to subscribe to Farm and Dairy. Send us his subscription, and we will send you three of these perfect "write-away" fountain pens. Remember this Xmas offer is open only for three weeks. Get busy today. Show your friends this issue.

FARM AND DAIRY PETERBORO ONTARIO

The Secret of Power

Take from a man every gift but sincerity; let him be blind and deaf and lame, let him stammer in his speech, lack education and good manners; handicap him as you please, so you leave him sincerity, and he will command respect and attention. His work will endure. The world, which is always looking for the real thing, will gladly overlook all his infirmities.

In every relation of life, sincerity is the secret of power. The salesman who does not himself sincerely believe in the merits of his goods will generally be a failure. The business man who sets about to fool other people must end—as he has, in fact, begun—by making a fool of himself. The clergyman who preaches anything that his soul does not approve need look no farther to explain empty pews.

There is no virtue that more men believe in and fewer men practice. Many of us, it may be fair to say, are busily engaged in the utterly futile attempt to run a bluff on the rest of the world. From pillow shams and false fronts to imitation marble buildings and watered stocks, things are largely what they seem.

The chief anxiety of too many

tation there will be less disease. All of these advances can be secured more quickly through organization.

A home makers' club in every school district would help to bring them. Four or five women could start such an organization. The most good comes from a club of not more than 15 members, because each member has a chance to take part often and there is less formality. Ask your neighbors in to spend an afternoon. Talk this matter over with them. Organize a club. The exchange of ideas will help all of you.

Full Up the Blinds

Careful housewives draw down the blinds in sunny weather to save the carpets. This is a penny wise and pound foolish policy, for nothing keeps sickness out of the house so effectively as plenty of sunlight. Here is an instructive experiment made recently on the effects of sunlight.

Some germs of the terrible disease, anthrax, were sown on two plates of gelatine, and while one plate was kept in the dark, the other was placed in the sunlight. The germs grew, and at the end of 10 minutes there were 320 colonies, or groups, in the sunshine plate, 400



Interior View of the Home of a Successful Dairyman and Live Stock Breeder

Mr. and Mrs. Wm. Thorn of Norfolk Co., Ont., may be seen in their own home. Mr. Thorn has been very successful as a breeder of dairy cattle. He and Mrs. Thorn have an attractive home both inside and out and believe in enjoying life as they go along.

people is to keep up appearances. If they are poor, they must at any rate appear to be rich. If they are ignorant, they at least affect culture. Be a real man—not a shoddy sport or a sham aristocrat. Be sincere with yourself, your friends, and your work. With sincerity, a few talents and a little strength may go far. Without it, genius itself must fail!

Organize for Improvements

Miss Lena Bailey

Many a farmer's wife arises at 5 o'clock in the morning and retires at 10 o'clock at night with nothing but work between these hours. No wonder if she looks forward to the time when they will sell the farm and move to town. However, the work already done, our own observations and dreams of the future make us believe it is possible to keep all the beauties of country life and replace many of the undesirable features with the desirable features of city life.

The farmer's wife needs a library with its books and magazines, picture galleries, good lectures and musicals as much as the city woman. She needs time for leisure and for intellectual development, time to enjoy the beauties of country life. We are beginning to rear larger crops when scientific methods are applied to agriculture, so when these are applied to the home we will have more artistic houses, more conveniences and more nutritious food for the same cost as at present. When we understand sani-

colonies in the dark plate. One hour later the result was: In the sunshine plate, 0; in the dark plate, 3,520. Every kind of disease germ is killed by sunshine. River water contaminated by sewage, and teeming with typhoid and other germs, becomes quite free from them after flowing some distance in the sun. The seeds of consumption in dust, the germs of smallpox, diphtheria, tetanus (lockjaw) are all killed in the same way.

Moreover, young children grow bigger and heavier with plenty of light in the house. Everyone should make the best use of the sun by raising the blinds.

Our Christmas Premium Offer

One of Farm and Dairy's representations recently completed arrangements, whereby we are enabled to offer our people an extraordinary Xmas inducement to get for us at least one new subscriber each. Read the particulars of this Xmas offer as given on this page.

We cannot promise to keep this unusually liberal offer open after December 25th. Get one of your friends or neighbors to subscribe to Farm and Dairy, and when you receive these pens, which will be sent postage paid by us, you will be more than delighted.

It will be no trouble to take care of your correspondence when you have these new model fountain pens to write with.

December

OLD DO

Capable Irish men Parties Apply no moon Street, Toronto

Make happy K

The most perfect all purpose And the price appreciate day—men with young merriment portion

Photo Inexpensive Its 50¢ and the work 1.00. The little good part a kind The \$5 practicing the Ko that of perfect honest habit. Put List. Brown's examining CANA



Baby's Own Soap

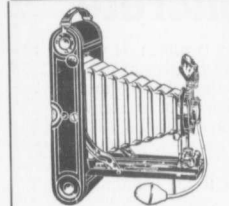
unequaled for toilet and nursery use. "Best for baby—best for you." Refuse all substitutes.

Albert Soaps Limited
Mfrs., Montreal, 1911

OLD COUNTRY DOMESTICS

Capable Scotch, English and Irish maids; also Danish girls. Parties arriving twice a month.

Apply now. The Guild, 71 Drummond Street, Montreal, 47 Pembroke St., Toronto, or 227 Bank St., Ottawa



Make somebody happy with a **KODAK**

There are Kodaks to fit most pockets at prices to fit all purses.

And there's no time when the possession of one is more appreciated than on the home day—Christmas. The children with their tree and toys, and the big folks, grown young again in the children's merriment, offer endless opportunities for the Kodaker.

Photography is both simple and inexpensive now; Kodak has made it so. Kodak cameras from \$5.00 up, and the Brownie cameras (they work like Kodaks) from \$1.00 to \$2.00, offer a wide variety. Even the little dollar Brownie makes good pictures and it is so simple that a kindergarten child can work it. The \$2.00 and \$3.00 Brownies are practical little cameras, while in the Kodaks themselves, one may find that efficiency which comes in a perfectly equipped factory, where honest workmanship has become a habit.

Put "Kodak" on that Christmas List. To decide on which Kodak or Brownie, write us for catalogue, or examine them at your dealers.

CANADIAN KODAK CO. LIMITED
TORONTO, CAN.

Passing Thoughts

When our pride gets a fall, it is disconcerting. It's good experience, nevertheless.

It is no crime to make a mistake. Let us not make the same mistake twice. Only don't make the same mistake then.

If there were no sorrow in the world neither would there be happiness. Happiness would then be monotonous.

Look back over your worries of the last month and find out how many of them amounted to anything. Your present worries are just as unimportant.

Fear is only a matter of suggestion. If the child is never told that there are evil spirits in the dark it will never fear the dark.

Some people would prefer taking half a dozen bottles of patent medicine to paying one doctor's fee. They stand a good chance to ruin their health at the same time.

There is a difference between being sharp and overreaching at a bargain and honestly trying to live within a narrow income. The second is untireably commendable. But how often we have injured a sensitive soul by imputing to them the first condition rather than the second.

Is Your Home Cooperative?

The co-operative home, with cheerfulness as its ruling spirit, is the home that is going to be remembered after unaccountably—tends pleasure when the children grow up. They may kick now and then at the task imposed upon them just as you and I did when we were young. And it takes the mother with a heart full of love and a far-seeing eye to make them do little things around the house, that she at the time might let her do herself with less labor and less talk.

Children may be divided into three classes. Those who have to be literally driven to their tasks; those allowed to shirk, by parents who would rather do it themselves than be after them continually, and the ones who do cheerfully and well the duties allotted to them. To instill the latter spirit into children, reason with them.

Take time to carefully explain the whys and the wherefores, for it is by a course of reasoning with ourselves—often unconsciously—that we get back into line when the daily grind becomes wearisome; otherwise it would be intolerable.

Explain how each one's toil in the home contributes to the solving of the problem of daily living. Little children are extremely sympathetic as well as amenable to reason, and will readily see the justice in understandingly appealed to, of dividing up the tasks and not letting father or mother carry all the burden.

They will forget and require frequent repetition; but patience, unstinted praise for work well done, special rewards given with discretion and an allowance—be it a penny or 50 cts.—will all go a long way toward attaining the required goal.

Enlist the children's interest. Make them feel that it is their own work. Do not sternly command, but kindly direct the work, giving to each child the work best suited to him.

Have faith in their ability, and early trust them with small tasks. Teach them by precept and example that every task is worthy of the best effort. That even a homely bit of work if well done is in it way a work of art. Seek to make the work attractive. Let the little girls learn to sew on bright pieces or make a pretty dress for dolls. A little boy can and ought to learn to use it. Give him a chance to earn some by extra work.

But by all means do not impress by your own attitude that work is a duty and something to be avoided.—Farmers' Review.

Embroidery Designs

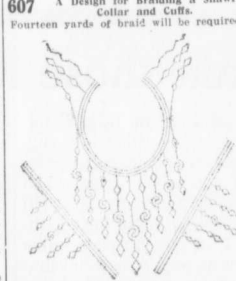
Designs illustrated in this column will be furnished for 10 cents each. Readers desiring any special patterns will confer a favor by writing Household Editor, asking for same. They will be published as soon as possible after request is received.



605 Design for Embroidering the Yoke, Collar and Sleeves of a Child's Dress.



607 A Design for Braiding a Shawl Collar and Cuffs. Fourteen yards of braid will be required.



598 Design for Embroidering a Blouse with French Knouts or Beads. Transfer patterns for the neck edge and sleeves are given.



602 Design for an Embroidered Border in Cross Stitch Style. The border is one and five-eighths inches in width and four yards are given.



612 Design for Embroidering a Child's Sacque. Especially adapted to May Manton's Pattern 7191.

The Sewing Room

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

DOUBLE BREASTED COAT FOR MISSES AND SMALL WOMEN, 7174.

Coats that are made in a double breasted style are favorites for young girls and for small women. The double collar marks the season and allows most effective use of combinations. The pointed back is much liked and is in every way desirable, but the outer collar can be cut on a round outline if found more becoming, or, if a plainer coat is wanted, the inner collar can be omitted.

The coat is made with fronts, side-fronts, back and side-backs. The sleeves are cut in two pieces each, without fall-over at the shoulders. The collars finish the neck edge. Pockets are inserted on indicated lines. If a shorter coat is desired it can be cut off to wrist length.

For the 16 year size will be required 4 3/4 yards of material 27, 2 5/8 yards 48 or 2 1/2 inches wide with 2 1/2 yards 27 for collars and cuffs to make as illustrated.

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

SEMI-PRINCESSE DRESS FOR MISSES AND SMALL WOMEN, 7169.

Both young girls and small women will find this design excellent. It includes many of the latest features, it is smart in the extreme, yet it is simple without. The blouse is cut in a peasant style, in one piece with the sleeves. The collar illustrated, with the pointed back and square fronts, is new and extremely attractive, but the plain round one often is preferred and it can be cut off to that shape if better liked.

For the 16 year size will be required 6 yards of material 27, 4 3/4 yards 36, 3 1/2 yards 44 inches wide with 1 1/4 yards of silver lace and 1 1/2 yards of satin 27 inches wide, 3 3/4 yards of ruffling to trim as illustrated, the width of the skirt at the lower edge is 2 1/2 yards.

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

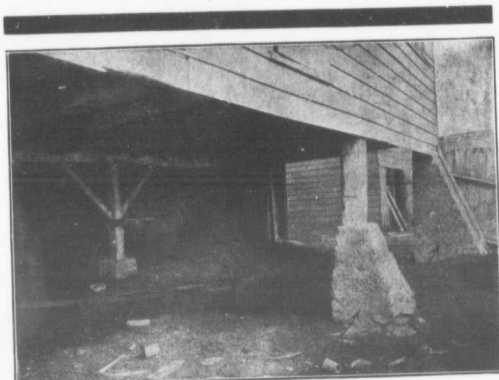
SEMI-PRINCESSE GOWN, 7195.

Gowns that are made after the manner of this one, in semi-princesse style, are among the most fashionable of the present season. This one includes the fancy collar that makes such an important feature of the present style and it gives the panel effect on the skirt.

For the medium size will be required 7 yards of material 27, 4 1/4 yards 44 or 52 inches wide with silver lace and 1 1/2 yards 21 inches wide for collar and cuffs, 5 1/2 yard 18 inches wide for cuffs, the width of the skirt at the lower edge is 2 1/4 yards.

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





Repairing a Barn Foundation

Page 12 from "What the Farmer Can Do With Concrete."

Better make those Repairs of Concrete

EVERY fall finds some of the farm buildings needing repairs, or alterations suggested by your experience of the preceding season. Would it not be wise, now when you are putting in new supports to the barn, repairing places where the action of the weather has rotted the wood, or putting your walks or fences in order, to do so with a material that

will never again cause you any trouble? If you use concrete for making your repairs around the farm, you are done with the job once and for all. The simple convenience of concrete is fast commending itself to farmers who wish to keep their places in good order, and when you figure on its everlasting durability, no other material can approach it for economy. Concrete made with

CANADA CEMENT

"The Canadian Standard"

Is the cheapest, most durable and best material for farm construction of any kind. CANADA CEMENT is the greatest help the farmer could have, for a uniform standard of purity is what CANADA CEMENT guarantees its users.

Especial emphasis is placed on purity, because purity is of prime importance. A difference of one per cent. variation below standard will make a whole world of difference in the setting—in the strength and life of your finished structure. CANADA CEMENT is always *PURE* In each of our ten

mills it is made up to a specific standard and kept there. It is subject to constant tests by expert chemists. Prove it yourself. Take a handful of CANADA CEMENT, and run it through your fingers. Notice its fine smoothness—utter absence of grit—feels like flour, you'll find. That means cohesiveness—perfect blending—close, solid setting of sand aggregates and cement—a concrete structure of staunch, imperishable strength, absolutely impervious to wear, weather and years.

YOU SHOULD HAVE THIS BOOK "What the Farmer Can Do With Concrete"

It tells how to build Barns, Dairies, Fence Posts, Feeding Floors, Root Cellars, Silos, Stables, Troughs, Walks, Well Curbs, and so forth. Each piece of construction is explained in detail, and full instructions and plans are given, making it a simple matter for you to do much of the work yourself.

There is nothing technical about this book in any part of its contents. It tells everything in plain, clear language, easily understood. Write to-night. Simply say on the back of a post card, "Please send me my copy of your book." Sign it. That's all. Address it to the

CANADA CEMENT CO., LIMITED, MONTREAL

December

MESSRS

One of the recently called of Millgrove, and inspected same, as we Flatt, Sr. I from a trip purchased so to his ahead Mr. Flatt ca in the form of which is a device is a which fit on can be adjust

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MESSERS. FLATT'S HOLSTEINS

One of the editors of Farm and Dairy recently called on D. C. Flatt and Son of Milgrove, Ont., out from Hamilton, and inspected their noted herd of Holsteins, as well as their Yorkshires. Mr. Flatt, Sr., had only recently returned from a trip to the States, where he had purchased some top-notch Holsteins to add to his already famous herd. While away Mr. Flatt caught on to a Yankee idea in the form of the "hook" system, one of which he brought back with him. This device is a light chain and two clamps, which fit on the hooks of the cow and can be adjusted in an instant.

One of the best things Mr. Flatt brought back with him is a bull calf, out of a cow, a four-year-old, that gave 11 1/2 lbs. milk in one day, three times milking. This cow is due to freshen in January and it is expected that she will make the greatest record of any cow of the breed, she is a granddaughter of a cow that has given 119 lbs. milk in one day. The calf was purchased from Mr. Standaah, the Holstein breeder of note, who judged at Toronto this past fall. In addition to his remarkably good breeding, this bull is one of the choicest if not the choicest show animal we ever saw or handled. He possesses wonderful lines and constitution and is a grand open calf of splendid depth. He handles exceedingly well, and is just such an individual that any man with a herd like the Messrs. Flatt would go a long way to get to place at the head of his herd.

Messrs. Flatt have just completed remodeling one of their stables, which they have equipped with BT stalls and partitions and in which they now have all of their young stuff tied, individually. Mr. Flatt says that it is well worth while to have all of the young stuff tied, since then they are so much more contented and they do so much better than when five or six or more are allowed to run loose in a box stall, in which case one or more are sure to be bossed by the others and not get their allotted feed. In this newly fitted stable there is accommodation for 25 head. Messrs. Flatt can now tie up 70 head besides their box stall accommodation, of which they have abundance.

The recent importation made by Messrs. Flatt include 15 head. They are all bred quite in the "purple." One of these heifers is from a cow that gave 115 lbs. of milk in one day and gave 100 lbs. a day for 40 days; this cow has about completed a year's work now and is going to reach close to 25,000 lbs. The dams of two others of these heifers gave between 15,000 and 19,000 lbs. milk in one year.

Space does not permit us to go into details of the great many good things Messrs. Flatt have in their stables. It is worth anyone's while to visit their farm. In their stables are to be found rows of Holstein cattle, the best to be had; one row is made of such famous cows as Francy Ted, the first cow in Canada to make 25 lbs. a day being the ex-Canadian champion, and Jennie Bonerog Ormsby, the world's champion two-year-old for yearly work—32 lbs. of butter, nearly 17,000 lbs. of milk, she being also first cow in Canada (Canadian bred) to make 20 lbs. of butter in 7 days. This cow also holds Canadian championship for four-year-old, 30 7/8 lbs. butter in 7 days, over 120 lbs. in 30 days. This cow has had seven different official men to test her and is a daughter of the main stock bull in this herd, Sir Admiral Orms-

by. Her full-blooded sister, 5 months old, is also in Messrs. Flatt's stable. Francy Bonerog Ormsby, another of the big cows of this herd and by the same bull, gave 27 lbs. butter.

Then we might mention Daisy Pieterje Johanna, over 27 lbs. as a five-year-old—Mr. Flatt has two beautiful heifers and a bull from this cow, the bull being sired by a son of old Pontiac Koradyke—two daughters over 27 lbs. butter in 7 days. Messrs. Flatt are using this bull considerably in their herd on the "Ormsby" stuff.

Many other cattle in this herd ought to receive mention in this article, but we must conclude with a brief mention of Messrs. Flatt's Yorkshires. Several of these fine cows at Toronto this year now have new litters on the farm. The Flatts are offering several cows and a few heifers ready to breed. The type and quality of these pigs are the very best, as one may know from their heavy list of first prize winnings at Toronto this last fall.

THE LAKEVIEW HOLSTEINS AT BRONTE

It is now five years since the Lakeview herd of Holsteins was founded at Bronte, and while ordinarily it takes many more than five years to build up a herd such a breeder of reputation like Mr. Osler would aim to have some day, Mr. Osler has spared neither time nor expense to procure the very best blood and individuality to breed from in his herd. Thus, he now has the stock, and offers bull calves, that are fit to head the best herds in Canada.

Since one of the editors of Farm and Dairy visited Mr. Osler and inspected his herd over a year ago, Mr. Osler has made considerable progress and now has in his stables a herd of cattle of exceedingly rich breeding and good individuality and milk production. It is unusually interesting to visit the Lakeview herd since, besides the cattle, which anyone interested in Holsteins would be eager to inspect, Mr. Osler has a set of farm buildings and up-to-date stables the like of which there are not more than a few their equal in Canada.

Recently Mr. Osler has brought into his Lakeview herd a bull from F. F. Field, of Massachusetts. This bull is Dutchland Colantha Sir Mona a March calf of 1910, out of Colantha Johanna Lad. His dam Mona Pauline De Kol has a record of 487 lbs. milk, 25 3/8 lbs. butter in 7 days and an average test of 4.45 per cent. fat. This bull Mr. Osler will use on the young stock by Count Hengerveld Fayre De Kol, the richly bred stock bull, which has been at the head of the Lakeview herd for some time.

All of Mr. Osler's cows have private yearly records. A considerable number of them have entered the Record of Performance, and more of them are in the Record of Merit. Mr. Osler is partial to the 7 day test followed by the 7 day test and 9 months from calving.

Anyone wishing to know more about the breeding of these two bulls, and other facts about Holsteins at the Lakeview herd, should write Mr. Osler for a folder, which he has gotten out, giving the extensive pedigrees of both of these richly bred bulls. Mr. Osler will be glad to send one of these folders to anyone on request.

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\$8.00 A TON
TORONTO SALT WORKS
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G. J. CLIFF, Manager



BREEDERS!

ONE INCH SPACE
Same size as this will cost you only 30 cents in Farm and Dairy. It costs money to keep your surplus stock this winter. Sell it through advertisement. Send Your Advertisement To-DAY FARM AND DAIRY, Peterboro, Ont



Gold Medal Percherons

Our Winnings at Canada's Two Greatest Fairs This Year. At the Dominion Exposition, Regina, and the Canadian National Exhibition, Toronto

At Regina our two-year-old stallions were placed first, third, fourth and fifth in the strongest Percheron class at the show. We were first with two-year-old fillies, and second with three-year-old fillies. First with the three best Percheron stallions the get of one sire. This was a wonderful showing for horses that just finished a twenty-two-day trip by rail and boat direct from France to Regina.

At Toronto we won first with our three-year-old stallion in a class of nineteen entries. First and second with our two-year-old stallions in a class of thirteen entries. First with three-year-old mares in a class of eleven entries. First with the four best Percheron stallions the get of one sire. Championship for the best five stallions any age. Championship for the best mare, any age and reserve champion for the best stallion, any age. We won three gold, and two silver medals.

At the above fairs we showed against all the big dealers of Canada, which goes to show you the superior class of horses we handle.

Imported Clydesdale Fillies, two, three and four years old, imported in 1910. Thoroughly accustomed. Broken to harness and in fact. These fillies are the prize winning kind and will be sold with the money.

HODGKINSON & TISDALE
Simcoe Lodge, Beaverton, Ontario

WE CAN'T GIVE AWAY YOUR PROFITS

KNOW AS MUCH AS THE BUYER

Don't guess at what your cattle, your hogs, or your other live stock should bring—know. There is profit for you in the knowledge—may be enough profit in a single transaction to pay the cost of a Handy Truck Scale.

Weigh Everything
and then you will be sure that you are getting the last few dollars out of each transaction; for the last few dollars represent the profits.

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This book tells the story "The Profit in The Less Ounce" and the story that every farmer should know. We will send the book free as long as the edition lasts. Just send us your address and the book will go to you by return mail.

THE RENFREW SCALE CO., RENFREW, ONTARIO.

See For Yourself Don't Take Anyone's Word For It!

WHEN YOU ARE AT THE
Guelph Winter Fair or **Ottawa Winter Fair**
 Dec. 11th--15th at the Jan. 12th--16th

TAKE NOTICE THAT THE DAIRY STABLES ARE EQUIPPED WITH **LOUDEN'S** Sanitary Perfect Stalls and Stanchions

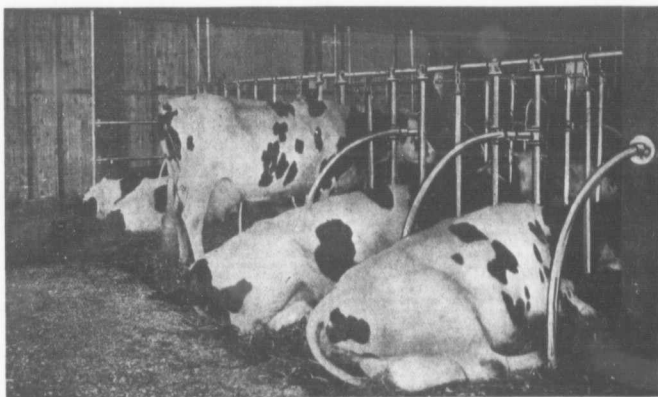
Don't settle the vital question of what stable equipment you will put in until you see Louden's Stalls and Stanchions and Louden's Litter Carriers and Feed Carriers.

Others may make claims but we'll show you our proposition.

When you want your barn fitted up with the up-to-date goods

Get
LOUDEN'S

They cost no more than inferior stuff and you know that you are getting the best.



NOTE HOW COMFORTABLE THESE COWS ARE

The stables at the Guelph Winter Fair as here shown are equipped with Louden's Perfect Stalls and Stanchions. The Ottawa Model Dairy Stables, Winter Fair Building, are also equipped with Louden's.

It will pay you to make a special trip to Guelph or Ottawa Winter Fairs on purpose to see our Stalls and Perfect Stable equipment. You will make a costly mistake if you don't put in Louden's.

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Are the Standard--LOUDEN'S Hold First Place

If you are thinking of a Carrier to reduce your work and make it easier to tend to your stock, send for our special literature on Litter and Feed Carriers.

We shall be pleased to answer any enquiries either at our exhibits in the buildings at Guelph or at Ottawa, or at our factory on Crimea St., Guelph

LOUDEN MACHINERY CO. GUELPH, ONT.

Canada's Largest Manufacturers of

Cow Stalls and Cow Stanchions, Litter Carriers and Feed Carriers, Barn Door Hangers, Hay Carriers,—in fact everything for a Barn or Stable



LOUDEN'S LITTER CARRIER
 Is the standard. It costs no more than inferior outfits.

LOUDEN
 Machinery Company
 Guelph, Ont.

Dear Sir,—
 Kindly send me your literature on stable equipment. I expect to remodel my stable this coming year.

Name.....
 Address.....



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HOLSTEINS

HOLSTEINS

If you are wanting HOL. STEINS, any age, either sex write: **GORDON B. MANNARD, Manhard, Ont.**

GLENSPRINGS HOLSTEINS

is officially One, bred by Inka Byva Beate Posch, ex Lady Rosa Gerben, which made with her first calf at 3 years, 10 lbs. of milk in 3m. after calving. Another bred by Count Gerben, brother of the world's champion Year-old, 5 yrs. of Daily Average, averaged over 1200 lbs. milk, milked twice a day for 3 consecutive years. Here is an exceptional opportunity to buy a good sire at the right price. **E. B. MALLORY, FRANKFORD, ONT.**

HOLSTEINS FOR SALE

Bull calf born May 15. A fine individual of good breeding; also some cows from my noted dairy herd of Holstein grades, in calf to W. Oliver Mercena. Write for particulars. **R. B. Brock, Box 10, Jarvis, Ont.**

WELCOME STOCK FARM HOLSTEINS

We have at the head of our herd King Blanche Lyons, whose two grand dams have a seven-day record of over 33 and 34 lbs. respectively. We have also grand daughters of Pontiac Korndyke, one of our sire having two 37-lb. daughters, and granddaughters of Pietertje Hengerveld Count De Kol, in calf to a grandson of Colantha 4th Johanna, whose yearly record stands unequalled. **J. LEUZLER and C. BOLLERT CASSEL, ONT.**

HOLSTEINS OF ALL AGES

BOTH SEXES

The Producing Kind

Feed is scarce. I'll have to sell a few at reasonable prices.

ELIAS RUBY R. R. No. 5 Tavistock, Ont.

RIVERVIEW HERD

Offers bull calves from 2 to 16 mo. old Sired by KING BEBBIE WALKER, whose 3 nearest dams and sister average 30.18 LBS. BUTTER IN 7 DAYS and 15.87 lbs. in 30 days from some of likewise breeding, at exceptionally low figure, to make room. **P. J. SALLEY, LACHINE PAPERS, OUB.**

FOR HOLSTEIN BULL CALVES

Bull calf, born Feb. 2 whose four nearest dams average 37 lbs. of milk in 7 days. Another born May 15, first calf in Canada of her age to make 20 lbs. butter in 7 days. Bull born Jan. 10; dam daughter of dam of number 2 calf with official record of 30.18 lbs. in 14 days, the butter in 7 days. Also two-year-old sister. **Yrumb Centre, Ont.**

FAIRVIEW FARMS HERD

—HAS FOR SALE—

One of Pontiac Korndyke's sire of the world's record cow Pontiac Clothilde De Kol 2nd, 37 lbs. butter in 7 days. One of the sire of seven daughters whose 7 day records average 31.1 lbs. each, unequalled by the daughters of any other sire of the breed living or dead. He is the sire of the youngest bull of the breed to sire a calf. We also offer some of Rae Apple Korndyke's whose dams and granddaughters of King 2nd, 37.30 (world's record) giving this young sire's dam and over her full sister the two best records that average for 7 years 31.41 lbs. each. We have in service, and can offer you some of Sir Johanna Colantha Glad, a son of the highest record cow in the Hengerveld De Kol. I. A. R. O. daughters (four over 30 lbs. each. This young sire is a son of Colantha Johanna Lead, whose dam Colantha 4th Johanna has a 7 day record of 30.22 lbs. each, which is higher than that of any other sire of the breed. Let me quote you the best quote price on anything you want in the best Holsteins; young sire one Sir P. H. DOLLAR, NEVELTON St. Lawrence Co., N.Y. Near Prescott, Ont.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of the Canadian Holstein-Friesian Association. Its members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

MUNRO AND LAWLESS' SALE

While the prices obtained at the Munro and Lawless sale, Nov. 15th, were not in keeping with the general market, it must be remembered that this is the first sale of registered Holsteins to be held in the Niagara district. It has done much to improve the estimation in which this breed of cattle are held by the residents of the district. Only two young grade heifers sold over \$50. The balance of the females brought prices ranging as high as \$200.

Prices realized were as follows: Mercedes Jewel, 6 yrs. old, J. C. Boehk, Toronto, \$200; Countess Mercedes De Kol, 4 yrs. Jordan, S. Gooderham, Belmont Park, \$250; Abbecker De Kol Blossom, 3 yrs. Jordan S. Gooderham, Belmont Park, \$100; Mercedes Belle, 15 mths., \$115; Abbecker Pauline De Kol 2nd, 19 mths., W. H. Detenbeck, Stevensville, Ont., \$115; Tottilla Elche De Kol 6th, 5 yrs., W. F. Elliott, 4200, \$120; Sylvia Pietertje De Kol 2nd, 4 yrs., G. S. Gooderham, \$115; Alice Pietertje De Kol 2nd, 3 yrs., Williams, \$100; Willama, 13 mths., Ont., \$90; Bess Princess, 4 yrs., R. Lawless, Thorold, \$200; Bessy Pietertje Tankie, \$100; Bessy Princess, \$200; Elmilda Queen, 17 mths., \$130, to W. F. Elliott; Julia Posch Abbecker, 5 yrs., Jas. Davis, Thorold, \$115; Elmilda Julia, 13 mths., A. L. F. Ry, Jordan, Ont., \$110; Alice mths., 4 yrs., G. S. Gooderham, \$175; Minnie Mable, 8 yrs., J. W. Dyer, St. Catharines, \$175; Nellie De Kol, 6 yrs., R. C. Rubel, Nurdin, Ont., \$110; Braemar's Abbecker, 3 yrs., A. M. Almas, Brockton's Corner, \$100; Elmilda Queen, 13 mths., W. F. Elliott, \$70; Braemar's Daisy, 3 yrs., J. W. Young, Ryckman's, \$100; Elmilda Daisy, 3 yrs., W. F. Elliott, \$75; Merceca Abbecker Posch, 4 yrs., G. S. Gooderham, \$125; Pontiac Belle Abbecker, 1 mths., Robbins, \$80; Elmilda Belle, 1 mth., Henry Hartley, Norwich, Ont., \$60; Pontiac Howjwie, 2 yrs., G. S. Gooderham, \$115; Braemar's Daisy, 3 yrs., J. C. Boehk, Toronto, \$175; Elmilda Cornelia Maid, 14 mths., A. L. F. Ry, \$85; Iduna Stamford, 1 year, J. Hoyman, Aurora, Ont., \$225; Aaggie Abbecker Pietertje, 2 yrs., R. Robinson, Niagara Falls, \$60; Elmilda Kate, 8 mths., W. F. Elliott, \$70; Ladr Netherlands Belle, 3 yrs., J. W. Dyer, \$130; Blanche Mercedes De Kol, 5 yrs., Bernard Marriage, Port Robinson, Ont., \$60; Abbecker's Belle De Kol, 7 yrs., G. S. Gooderham, \$145; grade cows, \$84, \$77, \$67, \$67, \$64.

T. W. MCQUEEN'S HOLSTEINS

As one of the contributors to the Southern Ontario Holstein Breeder's Association, he has been the best of his kind, the stock of Mr. T. W. McQueen, of Tillsonburg, Ont., will have a chance of inspection by several of our readers. His fine bunch of cattle which fill his barns to overflowing, has been in his possession the past year or so, placed several of them in the Record of Merit with good records, and of offering these, and some closely related to them, in this sale. These are not only as fine a bunch of cattle as can be found, but many of them are in calf to as good, if not the best bull in the country to-day, Lewis Prilly H.B.R. one of Beauty Pietertje Butter King and Margaret Roubie Hartog. His sire, Clothilde De Kol, has produced the only calf of the breed who has produced 30 lb. daughters, who have each produced a 30-lb. daughter, also several calves that average 29 to 30 lbs., who has produced a daughter with over 130 lbs. in 30 days. This sire of this bull is Beauty Pietertje, 35.51, who has a daughter 30.61. She is the best daughter of Prilly, who holds the world's record of 37.30 lbs. in 7 days. Her daughters, Lillian Walker, Pietertje, Ruby Walker, Pietertje, and a son, all have 30 lb. and five generations.

His dam, Margaret Roubie Hartog, 23.82, is the dam of Beauty Hartog Clothilde, 31.35 lbs. butter in seven days, 129.31 lbs. in 30 days, who is the dam of Addie De

Kol Hartog (junior four year old, 30.50 lbs. butter in seven days.

His sire, Beauty Pietertje Butter King, has a four-year-old daughter, 35.35, and three-year-old 25.68. He has 10 daughters, whose average age is two years and 10 months, with an average of 29.70 lbs. butter in seven days.

HOLSTEIN PROGRESS IN NOVA SCOTIA

Stanley A. Logan, Cumberland Co., N.S. Holsteins here are growing in popularity. Quite a number of herds are in good running order in the Maritime Provinces. Holstein grades bring 15 to 25 per cent more for dairy purposes than grades of any other breed, and sell for an average of two grade Holstein cows costing \$100 each and \$150 being offered for another.

In Prince Edward Island, they are especially popular. In the three or four pure bred herds they now have there is a large percentage of our breeding. Prices paid for Maritime Holsteins have ranged all the way from \$100 to \$1,000, the latter price being paid for a five-year-old cow bred by myself. Little official testing has been done, due largely to the lack of real, good, official testers.

From our own herds we have sold Holsteins in Quebec, Ontario, Alberta, and British Columbia. They have also gone to Wyoming and South Dakota. To the latter place we shipped 10 young bulls. We showed a herd of 14 at the B.C. show last fall, and secured 1000 dollars. First were entered. Holsteins that we sold to the Colony Farm in B.C. swept the boards at Brandon, Regina and Lethbridge this summer.

ABOUT THE AVONDALE OFFERING

Amount the bull calves offered for sale by A. C. Hardy, of Avondale Farm, Brockville, is one of the best bred animals ever born in Canada.

He is a son of Sir Johanna Colantha Glad, the head of Mr. E. H. Dollar's great herd at Heuvelton. He is the son of the famous Colantha Johanna Lad, and Pontiac Glad. The greatest daughter of Hengerveld De Kol. The dam of the Avondale calf is Fairview Mabel Korndyke, a daughter of 25 lbs. of butter in seven days at three years old, testing 48 per cent fat. She is a daughter of the famous Daisy, the 8 mths. and Pontiac Mabel Korndyke. Pontiac Mabel Korndyke, her dam, is also a high record daughter of Pontiac Korndyke, out of a cow Herd of Pontiac De Kol. It will be hard to find in Canada a more highly bred animal in the Pontiac bloodline than the calf offered by the Avondale Farm, and he is equally good as an individual.

There are a lot of other bull calves of all ages, and all from tested dams. Most of them are by the magnificent Avondale bull, Prince Hengerveld, sired by a grandson of the great Hengerveld De Kol on one side, and the famous Homestead Girl De Kol Sarcastic, dam of a Pietje 2nd (3 7/8 lbs. of butter) on the other. The Dorset sheep advertised are all from the Harding strain, and all very good individuals.

SOME FINE HERDS OF HOLSTEINS

An editor of Farm and Dairy recently called on the privileges of the late H. J. Holstein herd, all located in Western Ontario. The farms in question were those of Messrs E. Laidlaw and J. Leeson, Aylmer West, Elgin Co., and the herds of Mr. H. Haley and M. L. Haley, of Springford, Oxford Co. One of these herds contains at least one champion animal that is well known to the Holstein breeder of the Canada. This herd consists to find as many herds of Holsteins of such general excellencies and in such close proximity. The herd of Edmund Laidlaw and Sons is probably the largest herd of pure bred Holsteins in Canada. This herd consists of 95 head of pure bred animals, of which 55 were in milk at the time of our visit. The herd comprises a number of large number of pure bred animals, having large records, but yearly records as well. This herd was sired by his three sons—George, Lloyd and Elgin—and they all have reason to be proud of the high record cow ever set in the course of the past few years.

The outstanding individual in this herd is the champion cow, Mrs. Edna De Hol, which has the remarkable record of 33.54 lbs. of butter for seven days and 129.57 lbs. of butter for 30 days, and 45 per cent, and test for seven days 31.45 per cent, for 30 days, 41 per cent. Some idea of the strength of this herd and the remarkable quality of the stock can be gained from the fact that 22 females have

HOLSTEINS WOODCREST HOLSTEINS

A few choice Bull Calves for sale; six to ten months old. Some of Homestead Girl De Kol Sarcastic Lad and grandsons of Pietertje 2nd. Recently tuberculin tested by a U. S. inspector. Write for pedigrees and prices.

WOODCREST FARM

RIFTON; ULSTER CO., - - NEW YORK

HOLSTEINS

We have Record of Merit and Record of Performance pure bred Holsteins. Five young bulls of Sir Abbecker Paul De Kol. One yearling bull (extra) by Sir Beets De Kol Posch. Write for particulars. I must sell my milk room. My cows are beginning to frovodon and I need the room for the increase. Phone connections at St. Thomas. **E. C. GILBERT, PAYNES MILLS, ONT.**

HIGHLAND FARM HOLSTEINS AND YORKSHIRES

Young Bulls, from six months to one year, from High Bred Stock. Also, Yorkshires, both sexes; all ages. **ROBERT CAMPBELL, ROSENEATH, ONT.**

FOR SALE

The imported 3-year-old Ayrshire bull, "Gardium Stewarton Lad," 37.15—(7218)—half brother to Clerkland Kate 2nd—24821—(30475). Sole reason for selling to avoid inbreeding. He is a proportionally pure breeder and possesses points that would put him to front in any show ring. **WM. & G. SHIRREFF, Clarence, Ont. SILE PIG.**

Lyndale Holsteins

Offers two, young bulls born September, 1910, one of them from a season unaged of Brightest Canary and sired by a son of a 20.35 lb. yearling daughter of Hengerveld De Kol. **BROWN BROS., - - LYN, ONT.**

Purebred Registered **HOLSTEIN CATTLE** The Greatest Dairy Breed. See our FREE illustrated booklet. Holstein-Friesian Assn., Box 148, Barreboro, Vt.

AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

We offer bull calves, all ages, and all out of the best dams. One of our Sir Johanna Colantha Glad, being a grandson of Colantha Johanna Lead, and from a 25 lb. three-year-old dam. **ALSO HOIN DORSET SHEEP and YORKSHIRE PIGS.**

Address all correspondence to **H. LORNE LOGAN, Manager**

Three Holstein Bull Calves

\$25.00 to \$35.00 for Quick Sale. Splendid Breeding. Extended pedigrees furnished. Satisfaction guaranteed.

We need the milk. Calves must go. **MOUNT DAIRY, MILTON, ONT.** P. O. Box 53.

HOMESTEAD HOLSTEIN HERD

Home of Helton Dekol, Canadian champion cow for 7 and 30 days, vis. 24.4 lbs. in 7 days, 127.57 lbs. in 30 days, 45 lbs. butter in 7 days, and 129.57 lbs. in 30 days. Herd is headed by Sir Abbecker, whose dam, Tidy Pauline Dekol, made 24.4 lbs. butter 7 days, and sire's dam Colantha 4th Johanna 24.2 lbs. in 7 days. In 1 year. We have the choicest young bulls we ever had to offer. Better speak early if you want one. **E. LAIDLAW & SONS, AYLMER WEST, ONT.**

(Continued on page 34)

HOLSTEINS

Dummerston Farms
Holsteins

A choice Yearling Bull, very handsome, vigorous and straight. Sired by Admiral Walker Gelseha, a grandson of the grand old "QUEEN OF THE HERD" PHILLY, who with her 6 daughters have A.R.O. records that average 25 lbs. of butter and 4.8 per cent. World's record for mother and 6 daughters for milk, butter and percentage of fat. Admiral Walker Gelseha's first 5 daughters to come fresh at an average age of 2 years 1 month and 18 1/2 days, butter, world's record for bull's first 5 daughters.

The young bull's dam and sire's dam have combined A.R.O. records of nearly 30 lbs. butter and over 5 ton milk in 7 days. Price, \$200. Registered. Crated and delivered to Express Co.

G. F. GREGORY

Dummerston, Vermont

Cloverleaf
Holsteins

Herd bull, Cloverleaf Favorit Choice goods, sold to S. Africa. His sire has 7 sisters with 31.5 lbs. average in seven days. Dam, Cloverleaf of Faforis in a direct line in A.R.O., being tested nine months after calving, not now completing her year, semi-official as a three-year-old over 14,000 lbs. milk and almost 500 lbs. butter.

Several good Cows and Heifers, in calf to this young bull, for sale. Also, two Bull Calves, one by Sir Admiral Ormsby, out of a cow with a good record.

A. E. Smith & Son, Millgrove, Ont.

HOLSTEIN
BULL

One Year Old, Good Size nicely marked, pure bred. Dam and grand-dam very high producing R. F. Cows—most popular families; for sale cheap to early buyer.

Also, Pure Bred Tamworth Pigs, either sex.

G. DUFF NELLE, Boston, Ont.

FERDALE STOCK FARM

Breeders of Clydesdale Horses and Holstein Cattle

Our stud of Clydesdales were never stronger than at the present time. Space will not permit to give a biography of each animal.

We have a number of Bull Calves from Korndyke King Schillard, whose sire is a brother to Pontiac Korndyke's sire of Pontiac; also a number of Bull Calves from Pontiac to Pontiac; also a number of Bull Calves from Pontiac to Pontiac; also a number of Bull Calves from Pontiac to Pontiac.

Visitors always welcome, and will be met at the C.P.R. Station, Mt. Elgin, on arrival. Bell Phone No. 167

Fierheller Bros., Mt. Elgin, Ont.

COUNT HENGERVELD
FAYNE DE KOL

COUNT HENGERVELD FAYNE DE KOL, a son of Pieterie Hengerfeld Count De Kol, who has 100 A.R.O. daughters and Grand Price 2nd, who is the dam of a 5th cow, heads the Lakeview Holstein Herd. There are at present 10 young bulls for sale, sired by Count Hengerfeld Fayne De Kol, and out of 2 1/2 lbs. butter in 7 days.

Visitors always welcomed to the farm, and inquiries promptly answered.

E. F. OSLER

Bronte, Telephone: Bronte, Ont.

records that average over 30 lbs. of butter for seven days. These 23 animals include six 2-year-olds, six 3-year-olds, six 4-year-olds and four mature cows.

A Great Cow

Included in the herd of Mr. Leeson and Son is a remarkable cow, Euline De Kol, milked 22 times a day. Unfortunately, this is not an official record. However, who know Mr. Leeson's herd, including his neighbors and those who have seen this great cow, do not doubt the figures. As a four-year-old, she produced in 1909 in the record of Performance 18.60 lbs. of milk. She is one of the largest cows we have ever seen, weighing possibly 1,500 lbs. She is a remarkably fine individual every way you take her. She is nicely marked, and shows a wonderful constitution. She has a grand back and body, and her ribs are splendidly sprung.

Some More Fine Ones

The herd of J. N. Van Patter and Sons has been noted for some years through the possession of champion cow, Netherland Aaggie, which produced 22.66 lbs. of milk and 704 lbs. of butter fat in a year in the Record of Performance. This record was made when she was 12 years old. While she is showing her age to some extent, she is still a breeder, as is shown by the fact that she has produced five heifer and four cow calves. Four of her heifers are in the Record of Performance, three being still in the herd.

There are a number of other very fine animals in this herd, including Aaggie Mercedes, which, at four years, made a seven-day record of 62.26 lbs. of milk and 27 lbs. of butter fat in seven days, 4.64 per cent. of milk and 110.8 lbs. of butter. This is believed to be the highest young four-year-old record in Canada. There are also several prospects that this cow will do still better.

Other Champions

In the herd of Mr. M. L. Haley are a number of the animals with which he has won honors at the World's and W. J. W. D. exhibitions. These include Lady Aaggie De Kol, which in 1909 and 1910, making the highest three day record believed to have ever been made in a public test. This great cow has a seven day record of 22.66 lbs. of milk.

Another fine cow is Aaggie Cornelius Poesch. This is a grand show cow and a great producer as well, as is shown by her record of 21.04 lbs. of butter in seven days as a three-year-old.

Another Champion

The farm of Mr. M. H. Haley backs on that of his outstanding brother, one of the sire's Calamity Starlight Butter Girl, her record at Guelph in 1910 and 1911, making four years old. Mr. Haley bought her and her calf at an auction sale when they were in such poor condition that the auctioneer laughed when they were bid in at \$500.00. Mr. Haley sold her first prize at the Toronto Exhibition, for \$700.00. She has a record of 22.66 lbs. of butter in seven days, and was doing better every day when the test closed, just before she was shipped to Guelph. Mr. Haley made a sensational record, producing 17.9 lbs. of milk testing 5.5 per cent fat. During the test she made over four pounds butter a day. Mr. Haley expects to have this great cow entered in the test again this year.

Her half-sister on the sire's side is Queen's Beauty Bessie, which has a record of 23.66 lbs. of butter in seven days as a junior three-year-old. She held the championship for her sex for some time. This cow won first at Guelph three years ago, scoring 60 more points than her next nearest competitor.

Extended reference to each of these herds will be made in Farm and Dairy during the next few weeks. Messrs. Laidlaw and Sons and their associates have expected that the number of very fine individuals to the combination Holstein sale that will be held at Tillamook, January 15th. At this sale some 13 head of Holsteins will be sold. Laidlaw and Sons will contribute 35, M. L. Haley 15, W. T. McQueen 15, R. E. Kelly 15, and J. W. Richardson 5, etc. The intention is to make it an annual sale, and if this is done, justifying the stock bred in this section, it should develop into one of Canada's greatest annual sales.

HOLSTEINS
GRADE HOLSTEINS
FOR SALE

We have for immediate sale, Eleven Choice Grade Holstein Heifers, coming two years old.

The sire of these heifers is Prince Peach Calamity Bull, whose dam has an official record of 19.2 lbs. butter in 7 days.

Prince Peach Calamity Bull, who is sired by Prince Peach Calamity, whose dam and sire's dam average over 26 lbs. butter in 7 days.

These heifers are all bred to a pure bred sire. For further particulars, apply to:

BESWETHERICK BROS., HAGERSVILLE, ONT.

BROOKSIDE HOLSTEIN FARM
Offers a beautifully marked Young Bull, whose 4 nearest dams average 22.5 lbs. butter in 7 days. His sire is a grandson of "Jessie Veeman", the best type of a Holstein cow in America; his dam is sired by "Johanna Rue Girl's Lad", who carries 25% per cent blood of "Columbia Johanna Lad"—88.00 bull. Several other choice ones, both sexes, for sale. Write for pedigree, photos and prices.

W. L. LAMCKIN, FORDWICH, ONTARIO

AUCTIONEER My lifetime has been spent in the business of buying and selling Dairy Cattle. Have sold sales from the Atlantic to the Pacific. My experience is for sale to: **HERBERT J. MAEGER, ALGONQUIN, ILL.**

FOR IMMEDIATE SALE

We are offering a number of well grown registered Holsteins, bull calves, from A.R.O. dams and sires, bred by the De Kol Plus.

Also a number of Richy bred Heifer Calves, bred with records up to 22.5 lbs. butter in 7 days and 75 lbs. milk in one day. Will be sold at a price well below usual young cows.

These will be priced at a price well below usual. Write for prices and breeding before buying elsewhere.

R. AND K. VALENTINE, VIOLET, ONT.

Maple Hill Holstein-Friesians

Bulls from One Month to Twelve Months, all from Record of Merit and Record of Performance Dams. Come and see them.

G. W. Clemons, Bell Telephone No. 3, George, Ont.

WOLLEND BREEDERS' CLUB
BELLEVILLE DISTRICT

WILL HOLD

SECOND ANNUAL CONSIGNMENT SALE

AT
Belleville, Ont., April 3, 1912

For information apply to F. R. Mallory, Sec.-Treas.

HILLSIDE OFFERING

12 registered Holstein 3 bull calves and 10 milk cows, consisting of the best cows and others not tested, which is as follows:

Countess Inka Calamity De Kol, 45072, two-year-old daughter of Alberta Maid just recently sold at Manhard's sale for \$1,000.00. Her sire, Mr. W. Hayes, senior 2-year-old test, 30 lbs. in 7 days.

Zenobia B, 7290, 3-year-old, test 19.56 lbs. in 7 days.

Minnie Abbecker De Kol, 7349, junior 4-year-old, test 20.5 lbs. in 7 days.

Countess Akkrum, 15071 2-year-old, test 15.38 lbs.

May Abbecker De Kol, 8140, test, 3-year-old, 14.76 lbs.

Balance not tested, all of which are due to freshen in January and February, 1912, in good condition. Prices right. For further particulars, apply to:

ORRIN STRADER, BRINSTON, ONT.

Lewis Family Robly Hartog

(6084 F. F. H. B.) (9855 C. H. H. B.)

Heads our herd, 3 A.R.O. daughters, Villa Burke 2 yrs. old, made 20.66 lbs. butter king, has 19 A.R.O. daughters, 10 of which average over 17 lbs. in 7 days. Her sire, 20 lbs. butter, and is by Beauty Pieterie, 30.51, the best 70 mbs. average cow of the breed through her daughters. Her dam, 22.66, is the greatest transmitting cow who has ever produced 20 lb. daughters in 30 days. Her sire, 129 lbs. in 30 days who has produced a daughter over 130 lbs. in 30 days.

Harriet 23.82, is also the dam of Abby Harriet, 30.51, who has a Jr. A.R.O. record.

We have for sale Bull Calves sired by him and from good R. O. M. dams. Catalogue and Southern Ontario Breeder's Sale, to be held Jan. 2nd, 1912. We are exceedingly sure of good ones to it.

T. W. McQueen, Tillsonburg, Ont.

HOLSTEINS
Centre & Hillview Holsteins

Herd headed by Sir Sadie Cornucopia Clothide—the average of his dam, coming 2 dams, and grand dam, 62.25 lbs. milk, 30.38 lbs. butter in 7 days and 72.93 lbs. milk and 11.5 lbs. butter in 30 days.

Also Sir Shadwell's Regis, whose 14 nearest dams average 22.5 lbs. in 7 days; also some bulls from Brookbrook Butter Baron, who is a champion 3-year-old, test 23.82, 2-year-old, 7 days, and the 22 daughters in Record of Merit.

We own the Champion of Canada Junior 2-year-old giving 21.34 lbs. butter in 7 days and \$1.54 in 20 days; also a 3-year-old giving 23.83 lbs. butter in 7 days and 95.67 in 30 days.

FOR SALE: Bulls up to one year old, also females all ages, with official book-ings.

P. D. EDE

Oxford Centre, Woodstock, P. O., Ont.

Long distance phone, Woodstock Station.

Spring Brook Holsteins
and Tamworths

Holstein herd headed by "Sir Korndyke Bull" (son of Pontiac Korndyke), dam "Fairview Korndyke Broom" (official record 20.70 lbs. butter in 7 days at 3 yrs. 11 months and not dry a single day. Present offer: 2 Bulls, ready for service; 2 Heifer and 6 milk old sire's dam over 26 lbs. milk and a tested dam. Breeding in best.

Tamworths, best British blood; horns and some, 4 mths old; young sows bred. Come and see before buying.

A. C. Hallman

Waterloo County, Breslau, Ontario

LOOK! LOOK! LOOK!

Buy your Holstein Bull now before the best are gone. I have ten from 10 to 15 mths. from heavy milking dams. Also, Stock Bull, rising 3 years; 70 per cent of his calves are 20 lbs. in 7 days. Also, a tested dam, five times champion at Toronto and London.

Thames, Sows, bred and ready to breed, and a fine lot of beauties under 2 mths., either sex.

Write for prices and breeding.

BERTRAM HOSKIN, Phone

Via Cobourg

The Gully, Ontario

Breeders! DO YOU EVER
CONSIDER

How Much You Have Lost
or how much business you do not get
Because Some One Does
Not Know

you have for sale the stock they want and which they buy from the other fellow who advertises?

The progressive, paying way of getting only one new flat rate set on Farm and Dairy is your advertisement-to-day for next week.

Your advertisement in these columns will get you a large number of inquiries to Farm and Dairy.

It is absolutely certain that you will receive a large number of inquiries to Farm and Dairy.

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A VISIT TO SEE SOME PERCHERONS

Percherons, on account of their qualities of hardhood, clean legs and their suitability for general purpose work, are gaining in popularity and there is an ever increasing demand for good Percherons of pure blood. Indeed the demand for them is so great, especially for fillies of pure breeding, that the price of these fillies is often higher than the ordinary breeder cares to pay, and for that reason importers of Percherons have not as yet imported to any large extent consignments of fillies. There is a great demand for stallions, since they sell more readily at the prices asked, importers of Percherons have given greater attention to the importation of stallions. This is true of the well known Percheron importer and breeder, Mr. J. B. Hogate, who has stock and barns at Weston, Ontario, and at Brandon, Manitoba, and whose advertisement appears elsewhere in this issue.

Last week one of the editors of Farm and Dairy called on Mr. Hogate at his barns at Weston and inspected the string of Percherons there stabled. Mr. Hogate very kindly had his men bring out of the stable a great many of his horses and showed them individually in show-yard style, much to our pleasure. Included in the lot were a number of three-year-old stallions and two-year-old stallions, both gray and black, with

splendid feet and legs, straight going and flashy action. Mr. Hogate has it as an axiom that he will not import a horse with a bad foot and he has been challenged buyers who come to him that he would give a man any horse in his stable that had a bad foot or which padded.

In addition to his two-year-old and three-year-old Percheron stallions, Mr. Hogate showed some two-year-old and aged Percheron stallions and a number of Percheron fillies, and a mare and her foal, which he imported last season.

By buying, Mr. Hogate has the advantage of the best importers of Percherons, in that he speaks the French language and deals directly with the breeders, and does not employ any interpreters, and who is interested in and is a good judge of horses. Thus they are able to buy to the very best advantage, and can save money and price their horses below what it costs most importers.

Mr. Hogate has at his barn at Weston a Clydesdale team, imported by Marcona, by Hixathwa. This stallion is kept for service and is as fine a Clydesdale as one could probably find anywhere in the world as there is in Canada. He possesses wonderful size and with it he has exceptional quality and great endurance. Mr. Hogate has also an aged Shire stallion and other horses at his barn of which anyone does not permit us to make mention.

Anyone wishing to buy Percherons should see the stock which Mr. Hogate has to be placed to show them at Weston. While taking advantage of the cheap rates to Toronto at the time of the Fat Stock Show, at the Union Stock Yards, anyone can slip out to Weston on the electric car, at a cost of 50 each way, and see these horses. When writing to Mr. Hogate address him at Weston, Ontario, where he resides. His barn at Weston is at the Eagle House Hotel.

ABOUT "EVERGREEN MARCH" AND OTHERS

While in Brant County two weeks ago one of the editors of Farm and Dairy called on Mr. G. W. Clemons, of St. George, Ont., and made a hurried inspection of his Holstein Breeders of the Black-and-White who is interested to learn that Evergreen March is giving up a tremendous record. Mr. Percy Clemons told us that he expected to get over 26,000 lbs. of milk from her for the year. Up to the night of Tuesday, November 21, she had given 24,900 lbs. She had given 24,520 lbs. in 12 months, and when we saw her she was running still 53 to 56 lbs. of milk a day. The only "calf in the outfit" is that she will not fly in time to qualify in the Record of Performance. She is now four months gone in calf.

Speaking of Evergreen, Mr. Percy Clemons said, "This is the cow they told about last year that I would kill by feeding. Does she look like it?" We were frank to admit that she did not, since she was in excellent flesh and looking in the very pink of health and condition. Continuing, Mr. Percy Clemons said, "If we had had as good a summer as usual, Evergreen would have broken every record known as an authenticated milk test. We had absolutely no ensilage for her after the first of June, and when the hot wave struck us and the pastures dried up she dropped 15 lbs. a day, and never regained it."

Our space will not permit us to mention this week extended details about other cows and stock worthy of the note in Mr. Clemons' herd. Chief amongst those we inspected were Queen De Koi Teake, out of Queen De Koi Zed, 16,500 lbs. milk; 650 lbs. butter (milked twice daily)—the cow is a four-year-old, about to freshen; Beauty De Koi, purchased at Mr. Manhardt's sale, a sister to Francy 3rd—she has an official record of 145 lbs. butter as a two-year-old. Then too, we saw Rose De Koi Teake, a very proper type of a dairy cow, long and low set, and was three times first at Toronto—three years in succession. She has an official record of 37.5 lbs. butter. Evergreen March's butter as a two-year-old, and that after retention of after-birth. She is now barely three years old, and has broken every record known in fact. It may be said of all of Mr. Clemons' stuff that size is a predominating feature of the Holstein breed.

Visitors are always welcome at Mr. Clemons' place, and at the present time he has some real choice individuals and young stuff out of tested stock for sale.

Seldom See A horse like this, but your horse may have a bunch of bruises on his ANKLE, HOCK, STIFF, KNEE or THROAT. ABSORBINE

Below After will clean them off without laying the horse up. No blistering, no burning, no pain. 50.00 per bottle delivered. Describe your case for SPECIFIC TREATMENT. Book \$1.00 Free. ABSORBINE, J.P. Hinton for marketing, Res. 1000, Portland, Oregon. Sold by: Geo. W. Brines, Various Vets., Varcostics, C. W. Allen, etc. Price \$1 and \$2 a bottle 50.00 each delivered. Manufactured only by W.F. YOUNG, P.O.F. 111 Lyman Bldg., Montreal, Ca.

FEED Concentrated stuffs to your cattle and hogs and get best returns from your home grown Hay, Straw and Corn Fodder and Roots.

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GRAND TRUNK RAILWAY SYSTEM THROUGH TRAIN SERVICE AND PULLMAN SLEEPERS Between TORONTO and PORCUPINE

NORTHBOUND—First train leaves Toronto to 5:30 p.m. Dec. 2nd, arriving South Porcupine 4:30 p.m. following afternoon.

SOUTHBOUND—First train leaves South Porcupine 12:30 p.m. Dec. 3rd, arriving Toronto 7:30 a.m. following morning.

The Attractive Route to WINNIPEG and WESTERN CANADA IS VIA GRAND TRUNK AND CHICAGO Steamship tickets on sale via all lines. Make your reservations early. Full particulars from Grand Trunk Agents.

How to Completely Cure

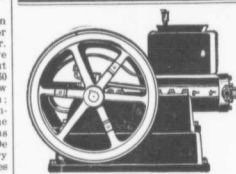
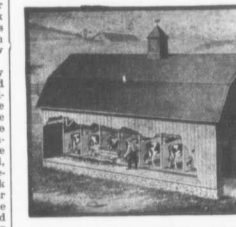
farm stock ailments is told in FLEMING'S VEST POCKET VETERINARY ADVISER. We will send you this book, illustrated, indexed, and well bound, free on request. It tells how to cure

HEAVES Generally considered a lung or wind-pipe trouble, Heaves is really caused by some inflammation of which, through the breathing, the heaving disappears when the inflammation is put right and the whole system restored by Fleming's Tonic Heave Remedy. Mailed regular. Your money back if any of Fleming's Remedies do not cure your horse. FLEMING BROS., Chemists, 8 Church St., Toronto.

Live Stock Judging Course Under the auspices of The East Peterboro Farmers' Institute, Branch of the Department of Agriculture and The Ontario Agricultural Society

A Free Course will be held at Keene On DECEMBER 20th and 21st PROGRAMME WEDNESDAY—9:30 to 12:00 a. m. Hogg, J. E. Brethour, Burford. 1.30 to 4:30 p. m. Dairy Cattle—F. R. Mallory, Frankford. THURSDAY—9:30 to 12:00 a. m. Light Horses—C. M. MacRae, Ottawa. 1.30 to 4.30 p. m. Heavy Horses—C.M MacRae, Ottawa. ALL WELCOME

NEWVERMIFUGE The best and most effective remedy for Bots and other worms in horses. (Guaranteed by the Farmers' Horse Remedy Co., under the Pure Food and Drugs Act, June 30, 1907. Serial No. 31571) It is guaranteed to kill and drive out worms of all kinds in from 12 to 24 hours all pin worms and bots. It is absolutely harmless and can be given to mares in foal before the eighth month. Practical horse owners have written us Newvermifuge has removed between 50 and 800 bots and worms from a single horse. An animal whose stomach is full of worms cannot get fat or help being obstinate. Bend your order to-day. Beware of imitations. 5 capsules, \$1.25; 12 capsules, \$2.00. Farmers' Horse Remedy Co., Dept. A.S. 307 - 7th St., Milwaukee, Wisconsin.



Weston, Ont. Brandon, Man. Importing Barns J. B. HOGATE, Prop. Direct Importer of Percheron Stallions and Fillies, Clydesdales and Shire Stallions. Fifty head to select from, the best that money could buy, Percherons in Blacks and Greys. Weights of Stallions from 1700 to 2200 lbs. Mares from 1600 to 1900 lbs.; some safe in foal. No reasonable offer will be refused. Terms to Suit Purchaser For further particulars write: J. B. HOGATE WEST TORONTO - ONT.

THE GREAT WESTERN AUTOMATIC ROLLER BEARING LITTER FEED CARRIER Adapted to any style of barn WOOD OR STEEL CARS FLEXIBLE OR RIGID TRACK SYSTEMS The only complete Car for the Market. Canadian Patent & Machinery Co., Galt, Ont.

This \$15 Down and balance in easy instalments without interest. IT IS EASY TO BUY the wonderful Gilson "Goes Like Sixty" Gasoline Engine on the above plan. Powerful, simple, durable, dependable, cheapest running, easiest to operate of any engine. A positive guarantee given with every engine. Ten days' trial—If not satisfactory, hold subject to our shipping directions, and we will return every cent of your first payment. Can anything be better? Made in Canada—no duty. The Gilson has 30,000 satisfied users, proving that it is not an experiment, but a tried and tested engine. Ask your banker about our reliability founded 1850. Tell us just what work you have for an engine to do and we will name you price and terms on the proper horse power. All sizes. Send for free catalogue. Big money for Agents—write for our proposition. GILSON MFG. CO., LTD. 101 York Street, Guelph, Ontario, Canada.

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A CLYDESDALE STALLION, MARES OR FILLIES

Imported or Canadian Breed

SEE OUR STRING AT GUELPH WINTER FAIR



We are showing at the Chicago International and will be back for the Guelph Show, December 11th to 15th. Two of our Horses will be exhibited at the New York Horse Show. We have now upwards of 60 Horses—2-year-old and 3-year-old Clydesdale Stallions and Fillies and Mature Stock. Our 3-year-old Stallions won 1st, 2nd, 3rd and 5th at Toronto this year.

BARON KELVIN, our Canadian National Champion this year, and **FLISK PRINCE**, our champion 3-year-old (and reserve to Baron Kelvin) both at Toronto and at Ogdensburg, will be shown at Guelph.

We invite you to inspect our entire offering at our barns at Bedford Park, Yonge Street, North Toronto.

Hackneys and Ponies, as well as Clydesdales.

You can get from our offerings your choice of the best stock to be had and at reasonable prices.

Look for us at Guelph, or visit our barns.

GRAHAM, RENFREW CO.

Yonge Street, Bedford Park, North Toronto, Ont.

Breeders and Importers of Clydesdales, Hackneys and Ponies

JERSEY NEWS

THE DON HERD OF JERSEYS

David Duncaen, of Don Post Office, Ont., the Jersey breeder, who for many years has ranked at the top as a breeder of heavy producing and prize winning Jerseys, is offering for sale some choice individuals. These Jerseys are of the Golden Fern Lad strain, noted for their productivity at the pail and in the show yard, and for the prices they have realized when offered for sale.

Lovers of the Jerseys are always welcome at Mr. Duncaen's place, and just now anyone visiting his herd will be well repaid for their trip of inspection. Mr. Duncaen is now milking 44 head of pure bred Jerseys.

Included in the list of cattle offered from this herd are yearling bulls, ready for service; calves, both male and female, and cows of all ages. These individuals are in excellent shape, and are bred from heavy producers of the noted Golden Fern Lad strain.

JERSEYS IN NOVA SCOTIA

Roy B. Pipes, Cumberland Co., N.S.

There has been a marked improvement in the Jerseys of this province in the past few years. The old style of Jerseys are fast being replaced by a type of animal that combines more nearly the great essentials of a dairy cow, namely, substance and quality, utility and beauty. Our breeders are coming to realize more fully that these very essential qualities can be combined in one animal.

The Jersey not only holds her own in the show ring, but comes to the top in the public milk tests. In 1910 the champion three-year-old of all breeds in the milk test held in connection with the winter fair at Amherst was a Jersey. A two-year-old that had been champion of her breed at fall fairs won first in her own class, standing well to the front with the other breeds, also making the highest per cent in butter fat of any cow of any breed in the test.

The Provincial Department of Agriculture, who have always been alive to the value of the Jersey, have gathered to-

gether at The College Farm in Truro a small herd, composed of some of the best lines of breeding to be found in the Jersey world.

This is an example that more of our experiment stations and colleges throughout Canada might well follow to the best interests of the Jerseys, and more especially the dairy interests at large.

GOSSIP

RAILWAY RATES TO WINTER FAIR

The railways of Ontario have agreed to issue on account of the Winter Fair return tickets at single fare from all stations in the district bounded by Kingston, Sherbrooke and Renfrew on the east and Aylmer, St. Clair and Detroit River on the west. These single fare return tickets will be on sale from Monday, December 11, to Thursday, December 14, inclusive, and are good for the return journey up to and including December 16.

All those who make one or more entries for the fair may, if they so desire, secure from the secretary of the fair, a certificate which will entitle them to single fare return tickets from any station in Canada east of Port Arthur.

PUTTING HORSES IN CONDITION

"Say, that black horse of yours is not doing well," I can tell you how to put him in condition. The first time you are in Brantford call at Tapscott's and get some condition powders. They'll put a new skin on that horse in three weeks. It will pay you to get \$1.00 worth and feed it to all your horses. It will be worth more to them than 20 bushels of oats."

"Thus did one of my neighbors address me last winter as I met him, and the subject of horses was mentioned. I get the powders and they did the work O.K. I have recommended these powders to several of my neighbors, who have got satisfactory results from their use."

My driver was badly infested with intestinal worms recently, so I got some of these powders again and fed them to her, and have cleaned the worms out entirely. This year, with feed so scarce and high in price, it is important that we make it go as far as possible. Therefore, conditions and condition powders will have a greater place than ever with us this season.—H. R. Nixon, Brant Co., Ont.

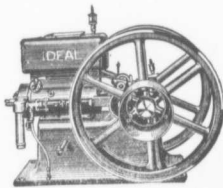
"BRANTFORD" ON A GASOLINE ENGINE OR WINDMILL

MEANS THE BEST MONEY CAN BUY

We have the largest and best equipped plants for manufacturing these goods in Canada

MAPLE LEAF GRAIN GRINDERS

8 to 15 in. Burrs



GASOLINE ENGINES

1½ to 50 H. P.

Stationary, on Skids or Trucks and

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Steel Saw Frames
Wood Tanks, Pumps
Water Boxes, etc.



WINDMILLS FOR POWER AND PUMPING

12 to 20 ft.
Towers girted every five feet and double braced. All mills galvanized after completion

WRITE FOR CATALOGUE

GOOLD, SHAPLEY & MUIR CO., Limited

HEAD OFFICE AND WORKS---BRANTFORD

BRANCHES---WINNIPEG AND CALGARY

MA

Toronto, Dec. 6.—Annual Christmas sales are now in trade for the most from the year to come. Some cases that for the time is optimistic. The grain market is lower. Dairy advance.

Reports of a wheat in it not been tall this country, maintained. weaker market owing to progress however, individual of the wheat is not, be threatened are as a No. 2, \$1.05; wheat, 66c; ahead more relief this before feed. Q. outside.

Price change. ket are few been an unfavorable corn is now a down to for feed. C.W. No. 2, \$1.05; white, 64c; at track here; No. 2, \$1.05; No. 3, \$1.05; No. 4, \$1.05; No. 5, \$1.05; No. 6, \$1.05; No. 7, \$1.05; No. 8, \$1.05; No. 9, \$1.05; No. 10, \$1.05; No. 11, \$1.05; No. 12, \$1.05; No. 13, \$1.05; No. 14, \$1.05; No. 15, \$1.05; No. 16, \$1.05; No. 17, \$1.05; No. 18, \$1.05; No. 19, \$1.05; No. 20, \$1.05; No. 21, \$1.05; No. 22, \$1.05; No. 23, \$1.05; No. 24, \$1.05; No. 25, \$1.05; No. 26, \$1.05; No. 27, \$1.05; No. 28, \$1.05; No. 29, \$1.05; No. 30, \$1.05; No. 31, \$1.05; No. 32, \$1.05; No. 33, \$1.05; No. 34, \$1.05; No. 35, \$1.05; No. 36, \$1.05; No. 37, \$1.05; No. 38, \$1.05; No. 39, \$1.05; No. 40, \$1.05; No. 41, \$1.05; No. 42, \$1.05; No. 43, \$1.05; No. 44, \$1.05; No. 45, \$1.05; No. 46, \$1.05; No. 47, \$1.05; No. 48, \$1.05; No. 49, \$1.05; No. 50, \$1.05; No. 51, \$1.05; No. 52, \$1.05; No. 53, \$1.05; No. 54, \$1.05; No. 55, \$1.05; No. 56, \$1.05; No. 57, \$1.05; No. 58, \$1.05; No. 59, \$1.05; No. 60, \$1.05; No. 61, \$1.05; No. 62, \$1.05; 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MARKET REVIEW AND FORECAST

Toronto, Dec. 4.—Trade is assuming the usual Christmas aspect. Wholesale dealers are now in a position to sum up their trade for the last year and make a forecast from the orders already in for the year to come. The volume of business done to date is practically the same as for the same period last year. New orders coming in have not so much as in some cases they have had to be cancelled for the time being. The outlook therefore is optimistic. There have been few startling changes in the produce market this past week. Stock has taken a turn for the better. The grain markets are steady to a shade lower. Dairy produce and eggs show an advance.

WHEAT

Reports of black rust and great damage to wheat in the southern hemisphere have not been taken seriously by dealers in this country, and prices have been well maintained. There was a tendency to weaker markets in the earlier part of the week owing to splendid reports of thrashing progress in the west. Later reports, however, indicate that quite a percentage of the wheat is hurt by the snow and will not be threshed this fall. Local quotations are as follows: No. 1 Northern, \$1.08; No. 2, \$1.06; No. 3, \$1.01; Manitoba feed wheat, 72c. Ontario wheat is coming ahead more actively, but there is a general belief that a large amount of it is being fed. Quotations still rule at 70c to 72c outside.

COARSE GRAINS

Price changes in the coarse grain market are few. Any change there has been is unfavorable to the producer. New corn is now quoted at 71c. Malting barley is down to 47c outside and 46c to 46c for feed. Other quotations are: Oats, C.W., No. 2, 40c; No. 3, 40c; No. 2, local white, 42c at country points and 47c on track here; peas, \$1.15 to \$1.10; buckwheat, 58c to 60c, and rye 90c to 91c. The tone of the grain market at Montreal strong and quotations have advanced slightly on some lines. Corn is \$1.02; oats, C.W., No. 2, 40c; No. 3, 39c; No. 2, local white, 42c; No. 3, 41c; No. 4, 41c; No. 5, 41c; No. 6, 41c; No. 7, 41c; No. 8, 41c; No. 9, 41c; No. 10, 41c; No. 11, 41c; No. 12, 41c; No. 13, 41c; No. 14, 41c; No. 15, 41c; No. 16, 41c; No. 17, 41c; No. 18, 41c; No. 19, 41c; No. 20, 41c; No. 21, 41c; No. 22, 41c; No. 23, 41c; No. 24, 41c; No. 25, 41c; No. 26, 41c; No. 27, 41c; No. 28, 41c; No. 29, 41c; No. 30, 41c; No. 31, 41c; No. 32, 41c; No. 33, 41c; No. 34, 41c; No. 35, 41c; No. 36, 41c; No. 37, 41c; No. 38, 41c; No. 39, 41c; No. 40, 41c; No. 41, 41c; No. 42, 41c; No. 43, 41c; No. 44, 41c; No. 45, 41c; No. 46, 41c; No. 47, 41c; No. 48, 41c; No. 49, 41c; No. 50, 41c; No. 51, 41c; No. 52, 41c; No. 53, 41c; No. 54, 41c; No. 55, 41c; No. 56, 41c; No. 57, 41c; No. 58, 41c; No. 59, 41c; No. 60, 41c; No. 61, 41c; No. 62, 41c; No. 63, 41c; No. 64, 41c; No. 65, 41c; No. 66, 41c; No. 67, 41c; No. 68, 41c; No. 69, 41c; No. 70, 41c; No. 71, 41c; No. 72, 41c; No. 73, 41c; No. 74, 41c; No. 75, 41c; No. 76, 41c; No. 77, 41c; No. 78, 41c; No. 79, 41c; No. 80, 41c; No. 81, 41c; No. 82, 41c; No. 83, 41c; No. 84, 41c; No. 85, 41c; No. 86, 41c; No. 87, 41c; No. 88, 41c; No. 89, 41c; No. 90, 41c; No. 91, 41c; No. 92, 41c; No. 93, 41c; No. 94, 41c; No. 95, 41c; No. 96, 41c; No. 97, 41c; No. 98, 41c; No. 99, 41c; No. 100, 41c.

HAY AND STRAW

The hay market rules steady at last week's advance. The demand from the old Country is strong, and also the demand from many local points in Ontario. No. 1 hay is quoted wholesale at \$150 to \$16; inferior, \$11 to \$12; baled straw, \$7 to \$8. Good timothy retails at \$25 to \$4; mixed hay, \$14 to \$15; and straw, bunched, \$17 to \$18. From Montreal exports to the United Kingdom have been unusually heavy. Prices are firm at the old basis: No. 1 hay, \$15; No. 2, \$13.50 to \$15; No. 3, \$11.

EGGS AND POULTRY

Another advance in quotations for eggs is recorded this week. Strictly new laid eggs have advanced to 30c. Fresh eggs are advanced to 20c and now bring 27c to 28c in case lots. Eggs still retail at 50c to 60c for new laid. Montreal prices have not advanced quotations, but the market is decidedly firmer than it was a week ago. The trade are paying 25c for fresh gathered stock. No. 1 stock demands 25c; new laid eggs are worth 50c a doz. on the market. Dressed poultry in Toronto are hard to dispose of at remunerative prices. Quotations are as follows: Dressed chickens, 10c to 12c; fowl, 7c to 10c; turkeys, 15c to 16c; ducks, 11c to 12c; geese, 10c to 11c. Quotations at Montreal are: Turkeys, 18c; chickens, 8c to 10c; fowl, 7c to 9c; geese, 10c to 12c; ducks, 10c to 11c.

DAIRY PRODUCE

The outlook for strong markets for dairy produce is exceedingly favorable. Sufficient quantity to meet the demand, and she draws on the whole world. Western Canada also is calling for supplies from Ontario and Quebec. The increased prices that are bound to result from this strong demand had their start this week in an increase of an wholesale quotations for creamery butter. Quotations now are: Dairy prints, 30c to 35c; creamery prints, 30c to 35c; solids, 27c to 28c; inferior, 17c to 18c. Cheese is quoted at 15-12c for large and 15-3-4c for twins. LIVE STOCK The live stock markets have recovered from the deluge of cheap stuff imposed on

them a week ago, and prices have advanced 15c to 25c a cwt. The strongest advance has been in the better class of animals, although the lower grades have also advanced slightly and receipts were cleared off much more briskly than in the previous week.

The recovery started on Monday and was due at least in part to those of fair quality. The export demand also was on a better basis and good export steers secured a top price of \$6.40 as compared with \$5 the week before.

Light receipts continued throughout the week. The quality declined in later shipments. Dealers believe that shippers are holding their best bullocks for the Christmas trade. Just how great the Christmas rush will be is hard to say. Drivers do not expect that so many will be rushed to market as were last year. Prospects, therefore, look good for a strong market from now until the end of the year.

Choice export steers were in good demand on the closing market of the week at \$6.15 to \$6.40; medium, \$5.75 to \$6.10; and light, \$4.75 to \$5.25. In butcher cattle, the strongest advances have been for choice quality, the best ranging from \$5.90 to \$6.15; good, \$5.60 to \$5.85, and common, \$4.75 to \$5.20. Choice butcher cows go at \$5 to \$5.40; common to medium, \$3.25 to \$4.90, and bulls, \$3 to \$5.25. Feeders are quoted at \$5 to \$5.25; stockers, \$3 to \$4.75; and canners, \$2 to \$3.

The demand for high class milkers is as keen as ever, but drivers bringing in medium class stuff are not getting the prices that have ruled for some weeks. Choice cows sell from \$60 to \$90; common to medium, \$30 to \$50, and springers, \$40 to \$75.

Sheep are steady, ewes being quoted at \$3.50 to \$3.75; bucks and culls, \$1; and lambs, \$3.10 to \$3.40. Calves are \$4 to \$7.50. Hogs have ruled steady at the decline of 50c noted last week. Packers are not paying as high prices for the market and \$5.50 to \$5 f.o.b. country points.

Receipts of cattle at Montreal are the largest that they have had for years, and the market is accordingly very active for the season. As a consequence there is a tendency to lower prices in spite of the fact that the quality of the offerings was the best for many weeks. The strong demand from the Old Country alone maintained quotations on choice grades of exporters on which prices ruled up to \$5.90. Fairly good steers sold at \$5.25 to \$5.50.

Receipts of sheep and lambs were not unusually large and a stronger feeling prevailed. Choice lots of lambs sold up as high as \$5.80 and good sheep at \$4.

Buffalo Live Stock: Prime steers, \$7.50 to \$8; good steers, \$6.25 to \$7.50; culls, \$5 to \$5.75; heifers, \$5.50 to \$6; cows, \$3 to \$5.25; hogs, mixed, \$6.25 to \$6.40; Yorkers, \$5 to \$6.35; lambs, \$3.50 to \$5.50; ewes, \$2.75 to \$3.

MONTREAL HOG MARKET

Montreal, Saturday, Dec. 2.—Heavy receipts of live hogs here had a depressing effect on the market. Selected lots selling down to \$5.40 to \$5.50 a cwt. weighed off cars. At these prices there was a steady demand. There is only a fair trade doing this week in dressed hogs, fresh killed abattoir stock selling at \$8.75 to \$9, with country dressed at \$8 to \$8.50.

CHEESE MARKETS

Montreal, Saturday, Dec. 2.—The total receipts into Montreal this week will probably total 10,000 boxes, and this practically closes the making season of 1911. The total output of the factories in Canada, judging from the receipts into Montreal for the season, will probably amount to 2,000,000 boxes of which 1,800,000 boxes have already gone forward to Great Britain. The consumption in Canada would probably amount to 75,000 boxes, and this would leave about 125,000 boxes still in store here to be finally shipped to the other side. The figures indicate a slight shortage in the output as compared with last year, amounting to about 150,000 boxes. This shortage is due to the fact that more milk was sent to the creameries, and as a consequence the receipts of butter into Montreal were 15 per cent greater than they were last year, but this increase was more than offset by the great demand from Great Britain, which took about 150,000 boxes of butter out of the country, an increase of 100,000 boxes over last year. The increased receipts into

Gombault's Caustic Balsam. The Worlds Greatest and Surest Veterinary Remedy. HAS IMITATORS BUT NO COMPETITORS I. SAFE, SPEEDY AND POSITIVE. Supercedes All Caustery or Firing, Invaluable as a CORE FOR FOUNDER, WIND PUFFS, RINGBONE, TRUSH, DIPHTHERIA, SKIN DISEASES, LAMENESS FROM SPAVIN, QUARTER CRACKS, SCRATCHES, FOLL EVIL, PARASITES. REMOVES BUNCHES or BLEMISHES, SPLINTS, CAPPED HOCK, STRAINED TENDONS. SAFE FOR ANYONE TO USE. I find Caustic Balsam to be Reliable. I can say that I have for the past three years been a user of GOMBHAULT'S CAUSTIC BALSAM, and have found it to be all that is claimed for it, and have in a great many instances recommended its use to others.—D. B. BIRD, Antigonish, N.S. Canadian Appreciate Caustic Balsam. I have been using GOMBHAULT'S CAUSTIC BALSAM for years, and it is giving my customers the best of all different salves with also used it myself on several ailments with the best result. Too much cannot be said in its favor.—W. T. PHIBBS, Berkeley, Ont. Sole Agents for the United States and Canada. The Lawrence-Williams Co. TORONTO, ONT. CLEVELAND, OHIO.

GATES MARK THE MAN. There is nothing on the farm that shows you more than the gates. What a shame to see a fine place with ramshackle, eye-sores scattered here and there! You would not let a barn, shed, or even a corn crib tumble to pieces unheeded even if it cost you one hundred times the cost of good gates, and yet no one thing shows more plainly and is more noticed by strangers and prospective buyers than the condition of the gates. The public see your gates often than they see you. They size you up by them. Write for particulars of our sixty day free trial offer. CANADIAN GATE CO., LIMITED, 29 MORRIS STREET GUELPH, - - ONTARIO

Hillcrest Ayrshires

Ivanhoe of Tangleweld, a son of the Champion Ayrshire cow, Primrose of Danville, R.O.P. test, 16.19 lbs. milk and 65.62 lb. fat, at head of three. A few young bulls left from R.O.P. Dams. H. H. HARRIS. MT. ELGIN, ONT.

STOCKWOLD DAIRY

High-class Ayrshire headed by W. L. Hill Free Trader, champion bull at Sherbrooke to 1911. Some of the noted cows in my herd: a 3rd class Runaway stud, 35.810 (Imp.) Mendy truck Cherry stud, 30.724 (Imp.); Auchafour (Sinh) stud, 32.210 (Imp.). These have recently been chased along with a few other fine heavy milking cows. Stock always on hand. Satisfaction guaranteed and easy terms for payment. Long distance telephone in home. D. M. WATT, ST. LOUIS ST. N., QUE.

23 Head of Ayrshire Cattle

For Sale, the entire herd of F. T. GUY, DARLINGTON, ONTARIO, main line of G.R.H., consisting of Aged Bull one yearling, 11 Cows, 9 Heifers of different ages. This herd has been kept for milk production and are of a good milking strain. Farm has been rented as proprietor is giving up the business.

FOR SALE CHEAP

Two rare breed Ayrshire Bull Calves. R. O. P. Stock grand-dam gave 10.182 lbs. milk and 837 lbs. butter in 30 days. M. W. SEXSMITH, RIDGEWAY, Ontario

BURNBRAE AYRSHIRES

We have for sale two Ayrshire Bulls, One, seven months old, out of Bright Smile, Maple Grove—6593—50 lbs. per day cow, and from Nother Lea Topo—30875—whose dam, Linda of Burnside, gave 60 lbs. of 4 per cent milk per day. The second is just one week old. He is out of Fanny—34998—a grand young cow, whom we expect to put in R.O.P. test, and from Scotchcow, out of Lochinvar. This bull (Lochinvar) has an good a milk record behind him as any bull in America. Dam, Ruth, gave 3579—90 lbs. and 10.150 the milk in a year, and his grand-dam, Primrose of Danville, gave 16.19 the milk in 1 year. Jos. Hudson & Son, Burnbrae Farm, Lyn 1, Ontario

ORCHARD GROVE FARM HAS FOR SALE

One six months old Ayrshire Bull Calve, who's sire is Silver King 29202, and grand-sire, Toward Point Matchless 24757 Imp. FRANK A. WIGHT, Theford, R.R.A., Ont.

Bonnie Brae Ayrshires

Choice Ayrshire bulls for sale—Two young bulls, one year old. One a son of the great champion butter bull, an Ayrshire cow of the world, whose dam, Ellen, now holds both the world's one year butter fat record and the world's one description elsewhere in this issue! Another of this bull heads the famous Woodside.

The other bull, a son of Duchesse of Point Round, whose dam gave 150 and 10579 lbs. milk and 465 lbs. butter fat. In 1911 she gave 15,638 lbs. milk and 555 lbs. butter fat.

Both bulls were sired by a Canadian bred bull of a great milking family. For particulars and prices write G. D. MODE, Vankleek Hill, Ont.

BREEDERS' DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line, per year. No card accepted under two lines, nor for less than six months, or 1 insertion during twelve months.

HAMPSHIRE PIGS—Canadian Champion herd, boar head headers, sows three months and under—Eastings Bros., Crossbill, Ont.

CLYDESDALES—Home of Aera. (Imp.) Holsteins—Home of King, Yeggie, Siegie, Chobide, nearest 7 dams, one butter per week, and Broken Welsh Ponies—W. M. Holby, Dryden, Ont. Manchester, Ont. Mistle, G.P.R.

FOR TAWMORTH SWINE—Write John W. Todd, Corlith, Ont. B.F.D. No. 1.

Montreal did not amount to this, and as a consequence the supply of butter here was so reduced that high prices resulted and are likely to be maintained through out the winter. The market for cheese is steady, holders are sitting tight on their small stocks and waiting to get in the neighborhood of cost for their fancy September cheese.

BROOKSIDE AYRSHIRES

One of the oldest herds of Ayrshires in Canada, headed by Brookside's heavily owned bull, John McKee, of Norwich, Oxford Co., Ont., President of the Canadian Ayrshire Breeders' Association. This

CHEAP FEED

Dairymen Feed Cotton Seed Cake Guaranteed Analysis Crude Protein 20 per cent to 26 per cent. Crude Fat 10 per cent to 15 per cent. Crude Fibre 15 per cent to 20 per cent. Carbohydrates 30 per cent to 35 per cent. Feed three pounds per head per day along with small quantities of other feeds. Price, \$5.00 per ton, ex-warehouse.

GEO. KEITH & SONS

124 King St. East, Seedsmen/merchants since 1856, Toronto

AYRSHIRES

CITY VIEW AYRSHIRES.

R. O. P. cows and two-year-old heifers for sale: one yearling bull and a fine lot of 1911 bull calves. Prices reasonable. Write or phone. JAMES REGG, R. R. No. 1, St. Thomas.

Ayrshires!

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herd was founded in 1872 by Mr. Hugh McKee, father of the present proprietor. During all these years the sole aim and object has been to breed "utility" Ayrshires. That they have succeeded in producing heavy milking Ayrshires, visitors to our great winter fairs at Guelph and Ottawa are well aware.

The old veteran, Sarah 2nd, now in her fifteenth year, is still hale and hearty, and doing good service. In spite of her advanced age, she qualified in the Record of Performance with 11,625.2 lbs. of milk and 407.4 lbs. of fat. Probably the plum of the herd at the present time is a daughter of the old cow called Star's Star 21,641, who qualified in the Record of Performance as a 3-year-old with 10,631.94 lbs. milk and 407.4 lb. fat.

Another promising young cow is Scottie's Victoria, winner of first prize in the 3-year-old Ayrshire class at Guelph last winter, where she made a higher score than any mature Ayrshire of the test. She yielded in the 3-day test 131.2 lbs. of milk, testing 51 per cent fat, making a score of 200.75 points. She was shipped away from home again in January to the Ottawa Winter Fair, and won second in her class, yielding 89.9 lbs. milk testing 4.4 per cent fat. She was also running in the R. O. P. yearly test all this time, and in spite of her midwinter journey went on and set a new record of 10,087 lbs. of milk as a 3-year-old.

Both Sarah's Star and Scottie's Victoria are due to freshen Dec. 28 next, and will be entered for the Ottawa dairy test. A younger sister of Scottie's Victoria has just calbed a year, and the 2-year-old class with 8,589 lbs. milk, while another 3-year-old heifer, Scottie's Nancy 2nd, from Feb. 10, 04, has yielded 8,258 lbs. milk. By the end of the year practically the whole herd of milking age will be in the Record of Performance.

Owing to the great demand for Ayrshires, the herd at the present time is smaller in numbers than for many years. Thirty-three head to the sum total of the herd at the present time.

The stock bull at present in use is Laird Douglas 29,268—a son of the great Doug-ladale of Dam of Aber (Imp.), and having for his dam the fine young cow, Bessie 16th of Nodpath, that qualified as a 2-year-old in R. O. P. with 10,087 lbs. milk and 230.75 lbs. fat, being an average of 4.4 per cent butter fat for the year.

The cows now in the herd, Laird Douglas are a very promising lot, possessing splendid size, length, depth of body and dairy type.

A STABLE OF NOTABLE PRIZES

Seldom does one come across a string of horses noted for their breeding and the honors they have won. The following are important show rings of a continent such as are now to be seen at the barns of the Graham, Renfrew, Co., of Bedford Park, North Toronto, Ont. It is the privilege of one of the editors of Farm and Dairy to visit this stable and inspect this noted string of prize-winning horses.

At the time of our visit upwards of 60 horses were in the stable. These included Clydesdales, most of which were imported, and of the most popular blood of the breed, and Hackneys and ponies. We were impressed with the splendid size and the extraordinary quality characteristic of all the Clydesdales which Graham, Renfrew Co. have from year to year. The whole string are a lot of big horses. Not only are they big and possessing unusually good bone, but they are of the proper conformation, and they possess the true high-giving action to be seen in horses that are to win in any company.

Inspection of the records of the breeding of these horses shows them to be sired by such sires of note as the late Mr. Zedie, Baron O'Boohyvie (a son of Baron's Pride), Sir Hugo, Everlasting (three times champion at the Cavendish), and Marmion, which latter horse is one of the greatest breeding horses now in Scotland, and is the sire of many of the breeders' count for an out-cross on the Baron's Pride stock.

Amongst the mighty horses of note, which we inspected in this stable, we will permit us to mention but a few, Baron Kelvin Square Brodette (15,463 (15,791), sired by Baron's Pride, and the champion stallion so popular at the Canadian National Exhibition at Toronto and at Ogdensburg this past fall. He was first in his class and champion at the Toronto and Ogdensburg. He is a horse of great size, wonderful depth and quality and the only other necessary characteristic of conformation and action to enable him to win the premier honors at the big

shows. Next to Baron Kelvin we must mention Flash Prince, the three-year-old, which was first at Toronto and Ogdensburg and reserve to Baron Kelvin as champion at both of these shows. He is sired by Marmion.

As fine a lot of fillies, imported this present season, as we have ever seen, are to be had at these stables. All of them are two-year-old and three-year-old fillies. One, however, without any loss let and champion at Ogdensburg, this year, and she and Flash Prince were the milk and fat champions. Probably the plum of the day of our visit to be seen at the New York Horse Show at Madison Square Garden.

In addition to the imported Clydesdales of which Graham, Renfrew Co. have a great number of which space will not permit us to make mention, they have some Canadian-bred stuff of rare good conformation and quality. They have six Canadian-bred mares of one age and another.

Already our allotted space is taken and we have not as yet been able to make mention of the mention we would like to make in regard to these horses. We cannot conclude, however, without noting the three-year-old Hackney stallion, Ter-tington Narcissus, the 1st prize stallion as a foal.

All of the horses now on hand at the Graham, Renfrew, stables are new ones, they having sold out everything they had last year. We are sure you will get and get the best should pay a visit of inspection to the Graham, Renfrew, stables, which are on the trolley line, Yonge St., Bedford Park, a little distance out from North Toronto.

MISCELLANEOUS

NITHSIDE Herd of Large English Berk

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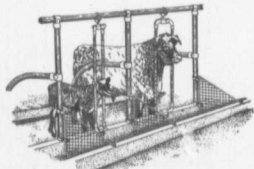
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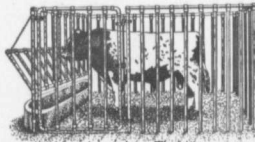
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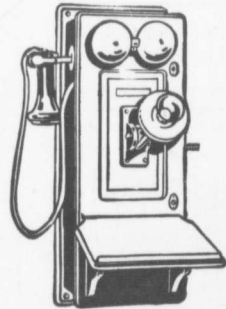
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