

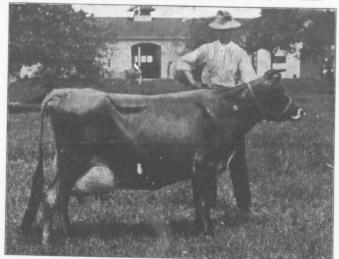
VOL. XXIX.

NUMBER 48.

RURATE HOME

PETERBORO, ONT.

1910



THE REIGNING JERSEY QUEEN AT THE RECENT NATIONAL DAIRY SHOW, CHICAGO Good dairy cows of proved worth are selling for prices almost verging on the fabulous. It matters not so much what breed they are. The question is, "what can they produce?" Far-sighted dairymen who took steps some years ago to know their cows and have kept records of their production are now reaping a rich reward. Our illustration shows Bosnian's Anna, the champion Jersey at Chicago. Tested officially by the Storrs (Conn.) Experiment Station, May, 1910, she gave 288 lbs. milk having fat content equivalent to 20 lbs. 7½ ozs. of butter. This cow was imported by C. I. Hudson, from the Island of Jersey, September, 1909, and has since made notable winnings at many State fairs.

DEVOTED TO

BETTER FARMING AND GANADIAN GOUNTRY LIFE

BREEDERS' NUMBER PRICE 10 CENTS

NEVER HAD AN ACCIDENT

You will have to go a long way to find a person who has had an accident with a "SIMPLEX" bowl. And, what's more! A worn out

SIMPLEX LINK-BLADE SEPARATOR

is as scarce as hen's teeth. There are several reasons why this Separator has the reputation of being a "no break, no wear" machine.

The "Simplex" bowls are made of a very

ductile grade of seamless steel tubing, that even if it were subjected to an extreme pressure would stretch, but would not fly to pieces. The spindles are made of a special grade of high carbon steel, heat treated, to increase their toughness. There is no safer or



Our aim is to make a Cream Separator that is stronger than is actually necessary. When you buy a Separator, buy a good one. The safest way is to get in touch with our nearest agent.

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT. Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

-A Heart to Heart Chat With Our Readers-

The measure, heaped up and running over, and this of quality, has ever been the policy of the management towards the "all wool and a yard win goes into Farm and Dairy. Material ease, in illustrations, in timelines, in fighting the farmer's nature world and in informed of what is going on in the agricultural world.

The property of the confidence of Farm and Dairy ever sought to permanently retain the confidence and support of subserviers.

scribers.

We are grateful for the place that Farm and Dairy has won in We are grateful for the farmers of Canada. We thank you, our renders the farmers of Canada when the support you have given us, and which has made possible the publishing of an altround complete weekly farm paper like Farm and Dairy at the low price of only \$1.00 a year.

A "FEAST" NEXT YEAR.

THERE is going to be a big feast for Farm and Dairy readers this coming year. Never in an about you farm paper have there been such plans and such borry of a farm paper have there been such plans and such parts as we are making for Farm and Dairy's audience of the dedictors of Farm and Dairy wish they could sit down at your table one of these evenings and tell you just what they have in store for you.

or you these, evenings and tell you just what they have in store. This Magazine Issue, he second Annual Breeders' Futher, is the eighth of the series of special magazine numbers that during this past year, as in 1999, here gone to Farm and Dairy at no extra cost to them, along with the regular numbers included Again wearptions for one year, which cost them but \$1.00. Again we appropriate number limited more special magazine number limited in the previous years will be published at just These special issues as in previous years will be published at just for our readers. Bottlumper Names when the information they contain will be of the greatest value to our readers. POULTRY NUMBER, FEB. 2.

The our readers.

POULTRY NUMBER, PEB. 2.

If the poultry Number of Farm and Dairy, to be published readers of the poultry Number of Farm and Dairy, to be published readers of the poultry Number of Farm and Dairy, to be published readers of the poultry since the developme A new interest has been awakened in poultry since the development of the poultry since the development with the poultry is in our Special Poultry Issue, Prof. P. greposition poultry is, in our Special Poultry Issue, Prof. A. Gooperative Poultry Circles Mean to Canadil set forth. What Gooperative Poultry Mean to Canadil set forth. What Gooperative Poultry Mean to Canadil set forth. What Gooperative Poultry Mean to Canadil set forth. What Gooperative

OTHER MAGAZINE NUMBERS

of practical poultry work.

OTHER MAGAINE NUMBERS

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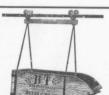
OTHER MAGAINE NUMBERS

Annual Orchard and darden Number, March 2nd. Excellent material by well known authorities, who know from practical material by well known authorities, who know from practical properties of the other numbers that folial, being prepared for this as for the other numbers that folial, being prepared for this as for the other numbers that folial, being prepared for this as for the other numbers that folial, being prepared for this as for the other numbers that folial, being prepared for this as for the other numbers that the same of the other hands of the other

ANOTHER FARMS COMPETITION

THEN there is to be another provincial Prize Farms Competition during 1911. This will be enlarged in scope and will include some farms from Quebec province. Every departament of the prize of the prize will be strengthened and during 1911. Farm and Dairy, of a constitution of the prize of th

they should. This is but a part of our program for 1911. There will be illustrated supplements, more and better than there have been this year, and there will be many other good and attractive things, which for want of space we cannot mention here. We will do our part. Will you do yours? Will you tell your friends about your farm and Dairty, and tinduce one and more of them to subscript and the property of the



THE "B T" FEED AND LITTER CARRIERS

NOW IS THE TIME TO BUY A LITTER CARRIER

Every farmer know what a dirty and disagreeable job the cleaning of stables is and especially when there is several feet of snow in the barnyard. Don't showe the wheelbarrow another large was a complete outlin for you now.

In feeding a large in a complete outlin for you now.

In feeding a large in a complete outlin for you now the stable of the complete outlines. The control of the control of

BEATTY BROS., Fergus, Ontario . . . STEEL STALLS, STANCHIONS AND HAY TOOLS



Iss Each

Vol. XX

All Hogs S

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Year

Vol. XXIX

FOR WEEK ENDING DECEMBER 1, 1910.

No. 48

THE CANADIAN HOG MARKET-SUGGESTED IMPROVEMENTS

Prof. G. E. Day, O.A.C., Guelph, Ont.

All Hogs Seemingly Look Alike to Canadian Packers—How Quotations are Made in Chicago—Discrimination in Prices Would Create More Confidence Amongst Producers in the Swine Industry.

NE of the things which strikes a person most forcibly in looking over Canadian market reports, is that in the case of cattle and sheep an effort is made to classify the a stock which comes into the market, while in the case of hogs no attempt at classification is made. There can be little dcubt that a great deal of the dissatisfaction, which exists in the minds of farmers, is due to this cause. For years the farmer has been complaining that it matters very little whether his hogs are choice bacon hogs, whether they are thick fats, or whether they are somewhere between the two, they all command the same price per pound.

It may be argued that of late there has been a great scarcity of hogs and that there probably has not been enough of any kind of hogs to meet the market demands; but the same argument would not apply a few years ago

when hogs were coming to market in large numbers, and when there was practically no more effort made to grade the hogs than there is to-day. The packer tells us that the competition among packers for hogs to keep their factories going tends to break down any attempt at classification, or, in other words, tends to level prices for all grades. Granting that this is true, the fact still remains that market reports might quote hogs in at least two or three grades, even though the price might be the same tor all grades.

THE HEAVY HOGS

There must be, under normal production, a large number of corn-fed hogs coming from the scuthwestern counties of this province that could easily be put into a separate class, along with thick fat hogs coming from other sections of the country. If this cculd be done,, it would be a start towards classification, and as time goes on and the demands of the consumer in various sections of this

growing country become more clearly defined, no doubt the classification might be amplified.

It may also be argued that even if a classification were made, that sometimes the thicker, fatter hogs might command a premium over the lighter bacon hogs. It is just possible that at certain seasons of the year and under certain peculiar market conditions this might happen, but it does not follow that the farmer has no right to know the relative market value of different grades. If fat hogs and bacon hogs could be quoted separately day after day and week after week, the farmer would be able to study market reports intelligently, and to govern himself accordingly. The mere fact that during certain months one class of hogs commanded a premium over the other should not create false impressions in the mind of any thinking person, because any

man who reads market reports intelligently will study the reports form one end of the year to the other and take yearly averages rather than weekly averages, or averages for short periods.

A PLACE FOR FAT HOGS

There is not the slightest doubt that at the present time there is a strong and growing demand for the products of the baccn hog to be consumed locally, but it does not follow that there is not an important place in this country for the fatter hogs. The market demand for lard which is shown in the high price which lard commands at the present time, is a strong factor in favor of the fatter types of hogs. We also have centres that demand the meat of this class of hog in preference to that of the bacon hog. It follows, therefore, that it would not be desirable to eliminate from our market either the bacon hog or



Valuable Stock for Which There is Always a Cash Market

Valuable Neck for Which lhere is Always a Cash Market

Notwithstanding the fact that many people are inclined to cry down pigs, there
are others who know full well that they are a paying proposition. The pigs in the
illustration, photographed by the pigs of the pigs of the pigs of the

F. Kitchen's farm, Hrant Co., Ont., at if Yarm and Dairy, Oct. Mat, on Mr. A.

F. Kitchen's farm, Hrant Co., Ont., at size of the pigs of the summer time, and
in all probability at a considerably less cost than indicated a treem true, and
in all probability at a considerably less cost than indicated a treem results of
experimental work at the Outario Agricultural College, where it was determined
that it cost \$2.97 a piece to raise pigs to 11 weeks of age.

the thicker, heavier, fat type of hog.

There is a very important place for both classes of hog to fill, and the question arises, how are we to regulate the supply of either one or the other of these types? There seems to be only one way. Market prices are the result of supply and demand, and if these two classes of hogs were given separate quotations in market reports, it would tend to regulate the supply of each, and to keep each one in its proper place. If there were too many fat hogs coming forward for the demands of the market and a limited supply of bacon hogs, the price of bacon hogs would naturally soar to a considerable point above that of the fat hog, which would tend to encourage the production of more hogs of that type. On the other hand, if there were a shortage of fat hogs their price might come up on a level, or under certain

conditions, exceed that paid for bacon hogs, which in turn would have a tendency to regulate the supply according to market demands.

THE PUBLIC IN THE DARK

Under present conditions, the public has no means whatever of knowing whether the packer is getting too many fat hogs in proportion to bacon hogs, or vice versa. Of course, the packer will say he is not getting enough of any kind of hogs, but suppose we go back a few years we may still say that at the time when hogs were coming forward plentifully, we had no more information as to the relative numbers of fat hogs and bacon hogs coming to market than we have to-day. If those who supply the consumer and are most familiar with his demands cannot give the farmer any intelligent idea as to whether the stuff which is ceming forward is suited to their purposes or not, how can the farmer be blamed if he does not produce a product that is most acceptable to the packer?

As time goes on and this country grows in all probability our markets will give a more satisfactory classification. The Chicago market, for

instance, has quite a complicated classification, and it may be of interest to some who are not familiar with that market to have presented the Chicago classification, together with market quotations at four periods during the present year. table given below is interesting inasmuch as it shows that the relative prices of different grades are not constant, but that they fluctuate from one time to another.

It would occupy rather too much space to describe fully what is meant by the different market terms, but they tend to explain themselves. It might be stated, however, that "pigs" are light hogs weighing usually from 60 to 125 pounds. The selected bacons are not like our bacon hogs and are not used for the same purpose. They are merely light hogs of the fat type, differing only from the heavier fat hogs in that they are light in weight and have not been fattened to the same degree. They would be entirely unsuitable for the manufacture of Wiltshire sides. The term

"prime" denctes a high degree of finish, that is to say, in order to class as "prime," a hog must

| so practically a pe | riect s | pecimen o | f its gr | ade. |
|-------------------------------|------------|------------------------|-----------|-----------|
| CHICAGO |) MARK | ET REPO | RTS | |
| Choice to | | May 18, 1910 | | |
| prime heavy Medium to good | 9.05-9.15 | 9.70-9.80 | 8.30-8.45 | 8.90-9.20 |
| heavy | | | 0.00 0.20 | 8.40-8.75 |
| weights | | | | 8.85-9.40 |
| mixed | .8.90-9.05 | 9.70-9.771/2 | 8.15-8.40 | 8.50-9.00 |
| packing | .8.75-8.80 | 9.00-9.35 | 7.75-7.90 | 8.10-8.25 |
| pigs | | | 7.25-9.00 | 8.00-9.00 |
| packing | .8.95-9.05 | 9.70-9.75 | 8.00-8.15 | 8.25-8.50 |
| bacons | .8.95-9.05 | 9.70-9.80 | 8.80-9.00 | 9.25-9.60 |
| Stags | | | 8.00-9.00 | 8.75-9.25 |
| Boars (Conti | | 3.50-5.00 2 page 19 | 3.50-5.00 | 3.50-5.00 |

Dr. H. G. Reed, V.S., Halton Co., Ont.

There is no season of the year so trying to a great proportion of farm horses as the late fall and early winter months. In the average case they have just finished a hard summer's work, during which they have been well fed. When the ground freezes their work is done, and they will be comparatively idle till the spring opens. This sudden change from regular work to idleness is in itself somewhat trying on a horse, but when associated (as is too often the case) with a like sudden change from good

grain ration, will do splendidly running around a straw-stack and eating straw during the day. In fact, I can imagine no better way of wintering idle horses, nor one in which less of the time of the farmer is taken. They do their own exercising during the day, are out in the open getting plenty of fresh air, are sufficiently well fed without being over fed, and will come out in the spring in good flesh, we'll nourished, healthy and fit, without any special preparation for a heavy summer's work.

Of the two extremes mentioned as Letween the horse that is over fed and not sufficiently exercised and the one that has to rough it with



Stock That is a Delight to the Owners as well as a Gratifying Source of Profit

Horses such as the ones here illustrated cost little if any more to raise, so far as feed is concerned, than do horses of indifferent trpe and lack of breeding. The difference in value is greatly in favor of the former. The string here shown are the Chydesdates shown by Fierhelder Bros., Oxford Co., Ont., at the London Fari, 1910.

to poor food the result is often decidedly bad. The whole system of the animal becomes deranged, his coat becomes dry, staring and dusty, his legs swell while standing in the stable over night, and he is in just the right condition to yield easily to an attack of any of the ordinary diseases to which horses are liable.

MORE DISEASE IN WINTER

It is a well known fact that farm horses are far more likely to suffer from disease in winter than during the summer months, and this is due to the care (cr lack of care) which they receive. The proper management of idle farm horses during the winter is not an easy matter. Many men have many ways of doing it. One man will, when winter comes in, continue to feed his horses well. He will probably not feed so much oats as when his team was working hard, but he will give three grain rations a day, with about all the hay they can eat. The horses stand in the stable with little or no exercise, and the result is generally that horses treated in this way get sick and the services of a veterinary is needed.

Another man has a different idea on the subject. He believes that an idle herse should have plenty of exercise and should in no case be overfed, consequently he turns his horses out to forage for themselves around the straw-stack or out on the fields, there to nibble frozen grass or what other fcod comes in their way.

EXTREMES PREDISPOSE TO DISEASE

Both of these extremes are bad and certainly predispose to disease, and the wise man will try and follow a medium course. No horse, after having been worked hard and well fed all summer, should suddenly have conditions changed to comparative starvation. His allowance of grain should be gradually reduced and he should most certainly get regular daily exercise of some kind. If turned out in a yard every day he will exercise himself, and if he has access to straw during the day while turned out he will eat some of it to advantage, for while straw contains very little of the elements of nutrition it is useful even in the case of the herse as a roughage, and helps to fill up and aid in the digestion of richer foods-provided it is fed in moderation.

Horses standing in the stable over night getting some hay night and morning, with a small plenty of exercise, perhaps the latter has the best chance of escaping disease. But they are both wrong.

DRIVERS AND WORKERS LOOKED AFTER

Most farmers keep one or possibly two horses in the stable which they use for doing the driving and other necessary work about the place. They are kept blanketed, are groomed and well fed, and provided they get the necessary exercise they are certainly in a more comfortable condition and just as likely to escape attacks of disease as they possibly could be. On most farms, however, there are too many horses to make it possible to look after them in this way.

The Good Bulls Paid Well

Geo. A. Robertson, Lanark Co., Ont.

By the time our cows are through milking for the season, they will have made an average per cow of \$70, out of milk alone. Besides this we have their calves. The grade heifer calves we sell for \$10 each; the pure bred calves from \$25 up, according to the value of their dams. This coming season, since we now have the individual records for what each cow has done for the year, we will sell the calves according to what their dams have done this past season.

One of my grade cows, No. 3, as shown in the illustration herewith, and the record of which was given in Farm and Dairy, Oct. 27th, she having given 6,721 lbs. of milk in four months this past summer, had a heifer calf last spring for which I refused \$20. I still have it. A two year old heifer out of this same cow gave 53 lbs. of milk a day this past season. She freshened about the first of June and gave nearly 4,000 lbs. cf milk in three months. The grade cow No. 3 as illustrated can I feel sure be made to give a great deal more milk were she given extra care and feed.

I have been asked by Farm and Dairy about the price

I gave for the bulls which I have used to grade up the cattle I now have, and as to whether or not I consider the expenditure for them to be a good investment. The first bull cost me \$50, the second \$60. I paid the same for the third bull, \$100 for the fourth, and \$125 for the fifth. The aged bull was a grand animal. I raised a calf from him, which I sold, but afterwards bought it back when I saw the old bull's steck. It is this calf that I am using now.

Our stock of cows when we started to grade them up did not have any particular breeding in them. It will be noted that the bulls cost me some \$400. This money was most certainly well invested as the cows we now have are making a profit of from \$35 to \$40 a year, whereas our old cows 15 years ago, did not make any profit at all when it takes \$35 to feed a cow for one year, as I believe it does. One can see that the extra money we make in one year now from 12 cows would cover the whole cost of the bulls we have had. The extra amount we realize for our calves would pay for the bulls' feed and we have the earnings of the bull on our neighbor's stock . to the good.

The Improvement of Common Stock

Jas. Smith, Russel Co., Ont.

It may be assumed that every intelligent farmer is anxicus to improve his live stock.



some farmers in all probability the plan of improvement has never seriously presented itself. His stock, he tells himself, are no worse than those of his neighbors. So he goes on in the same happy-golucky way, and if a superior calf or two comes he takes them simply as a slice of good luck, for which he is thankful.

But even then the idea does not come to him that by the use of a pure bred sire of the improved breeds he could build up a herd that would pay the co.t of these sires in a very short time; and secure additional income by the patronage his neighbors would avail themselves of.

With the price of beef and milk products, as they are to-day, farmers can not afford to raise scrubs and half starve them. Take a trip to the Winter Fair and note what feed, care, and breeding is doing for the intelligent farmers of this country. Then ge home with the determination to discard all inferior stock



Another Grade that Produces more than Several Ordinary Cows

This cow gave 6.721 pounds of milk in four months this past summer. Rear in the adjoining article by George A. Robertson of Lanark Co., Ont., how she and others like her were produced.—Photo by R. S. Hamer.

The Ayrsh Sor **₽**OT

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The owner commencing condition. milked thr and always flow lessene times a day silage and During the feed was gi chop, glute feeds, with was before of the stab blew about She receive not forced. short she feed. Whe the milk fl cause was moved: Th

SOME AYRSHIRE RECORDS AND HOW THEY WERE MADE

W. F. Stephen, Sec. C.A.B.A., Huntingdon, Que

The Ayrshires are Demonstrating that they are Exceedingly useful as Producers of milk in large quantities Some Record Makers described and an account given of how they were fed and managed

FOUR pretty Ayrshires make a fine picture in the show ring but are no good as producers." This statement was made to the writer at one of our leading Canadian Exhibitions a few years ago as he stepped to the ring-side after placing the awards on a class of dry two-year-old Ayrshire heifers. Ere I got through with that man he acknowledged ignorance of the possibilities of the breed, and in fact, any other breed of dairy cattle.

Doubtless there were many others with whom we could class this man, who thought the Ayrshire cow was built to fill the eye only. To these she has proved a disappointment in this regard and turns out to be a pail-filler of the most economical kind, as the many splendid records of milk and fat demenstrate, thanks to the Record of Performance Test.

In this article it is not my intention to enter into details of this test or of the many Ayrshire cows and heifers that have qualified with splendid records, further than to mention a few that hold the highest known records of milk and fat among Ayrshire matrons.

ANNIE LAURIE 2ND

The cow "Annie Laurie 2nd," 15588, owned by Emerson Cohoon, Harrietsville, Ont., holds the premier record for milk, having given within the year 15,154 lbs. of milk and 598.4 lbs. of fat. Thus she excels the American cow "Rena Ross" in milk production by 62 lbs. Her average test was 3.95 per cent. of fat. This cow was seven years of age at the commencement of the test, on January 31st, 1909, one day after freshening. Previous to the test she dropped a calf on Nev 2nd, 1907, and another after the test was finished on March 23rd, 1910. The test continued throughout 365 days. This cow was bred by H. and J. McKee of Norwich, Ont., from whose herd have gone out so many grand producers.

Annie Laurie 2nd, is true to the older type of Ayrshires. She may not be as stylish or as fine on the top of the shoulder as some of her mates. She is a short-legged, heavy cow, with a deep barrel and a well sprung rib. She has a nice head, a clear cut eye and a countenance that denctes much energy as well as complacency. She is extra good behind the shoulder indicating splendid lung power. Some would fault the udder for being a little fleshy but it is not tight and is of the right shape, well carried and with extra good teats, well set on. In color she is dark brown with white spots. In every respect she is a splendid specimen of an Ayrshire and a true type of a dairy cow.

DETAILS OF MANAGEMENT

The owner gave her a three months' rest before commencing the test, and hal her in fine working condition. For a time after freshening she was milked three times a day, at regular intervals. and always by the same milker. As the milk flow lessened she was milked twice a day. Three times a day she was fed when stabled, twice with silage and rcots and with clover hay at noon. During the flow of milk about 16 pounds of grain feed was given. This was a mixture of bran, oat chop, gluten and oil cake, divided into three feeds, with a pinch of salt in each feed. Water as before her all the time and the ventilation of the stable was not neglected. No cold storms blew about her either in summer, fall or winter. She received the best of care and feed but was not forced. In summer when the pasturage was short she was fed a limited amount of grain feed. Whenever her owner noticed a decrease in the milk flow, an investigation to ascertain the cause was made, and if discovered, it was removed. Thus was this good record made.

Her Lest month's work was in March when she gave 1,882.7 lbs. milk and 73.98 lbs of fat equal to 60.73 lbs. milk and 2.38 lbs. of fat a day. Her record for April was 1,746.4 lbs. milk and 69.85 lbs. fat and for May 1,743.5 lbs. milk and 75 lbs. fat-5,372.6 lbs. milk and 218.83 lts. fat in three months.

HEREDITARY INFLUENCE OF VALUE

This record is significant in demonstrating that hereditary influence is of great value and proves that we should select animals from families that have made good in production; that good type and production are nearly always found together: that the best of care and the right kind of feed and in liberal quantities must be given in order



Some Splendid Young Western Stock

Ayrshires are becoming quite numerous in Albert tere they are very popular. A group of young bu longing to A. H. Trimble, Red Deer, a leading breed belonging to A. are here shown

to get the best results. Along with this, regularity in milking, plenty of water, and fresh air must not be disregarded.

In the three year old and two year old classes Mr. A. S. Turner & Son, Ryckman's Corners, Ont., lead the Ayrshire world in production. Their heifers "Canadian Princess"-20108-three years old and "Speck of Springbank"-29619-two years old, have given within the year, the former 11,377 lbs. of milk and 521.91 lbs. cf fat and the latter 10,353 lbs. of milk and 437.4 lbs. fat. NEW IN THE AYRSHIRE WORLD

Mr. Turner is a comparatively new man in the

Ayrshire world but has set a pace that is enviable and hard to follow. The fermer heifer was bred by W. M. Smith of Scotland, Ont., whose herd was noted some years ago for their great production, the two year old was bred by the Messrs. Turner. These heifers are true to type, have grand constitutions, and deep full bodies. Their udders, while not fancy, are well shaped, well hung and the teats are large and well placed. Fancy treeders or faddists might fault them because of lack of style and carriage.

These heifers freshened in good condition. The Messrs. Furner believe that a cow to do her best work must be in the best of condition to commence her lactation period. These heifers are of the right form to handle feed and turn it economically into milk, and their

owners know just how to feed and care for their

stock so as to get big returns.
"Canadian Princess" milked 388 days and dropped her second calf 14 days within a year from the commencement of her test. Freshening cn Sept. 28th, 1908, her best months milk was in

November, as she gave 1,267.8 lbs. milk and 53.88 lbs. fat during that month. For the three months commencing Oct. 1st she gave 3,935 lbs. milk and 157.50 lbs. fat, as much as hundreds of cows give during the year. The feed was liberal. In summer pasturage was supplemented except in June with some silage and brewers' grains.

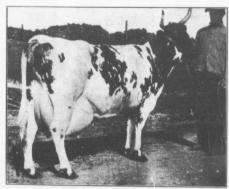
FEED AND OTHER ATTENTIONS

They were also sprayed daily to protect from the horn fly pest. On every wet, cold chilly night they were stabled. They were housed in winter in well ventilated and comfortable quarters and given all the alfalfa, clever, and silage they would eat up clean. Also half bushel of mangels were fed daily in two feeds. There was given also three quarts bran, two quarts mixed chop, composed of peas and barley one part, oats two parts and oil cake half part; this was divided into two feeds and fed morning and evening on top of the silage. Along with this about four quarts of brewers' grains was given each day. Water was before them all the time and they were regularly salted. Milking was done at stated hours, five o'clock, p.m., and six o'clock, a.m., and also by the same persons. No dog is kept by Mr. Turner and every influence that affects the milk flow is cut out.

Thus are Ayrshire records made, which, though not phenomenal, prove that with good breeding behind them, with good care and under ordinary conditions Ayrshires are excellent producers. In another column of Farm and Dairy this week is given further records of Ayrshires.

Composition of Colostrum.- Fully 20 per cent. of colostrum milk of the cow is casein and albumen; normal milk contains only from 2.5 to 4.5 per cent. Colostrum contains less sugar, water and fat than does normal milk, and in consistency is viscous. The colostrum milk seems to have a medicinal effect on the digestive tract of the young calf, and is just what it needs. Therefore it should not be deprived of this first milk -Geo. H. Prout, Extension Service, Minn.

Our cows are turned out of the stable every day in winter unless it is very wet and cold When the cows are out the doors are opened.



Kirtsy 5th, a Worthy Representative of a Great Family

This Ayrshire cow belongs to one of the greatest strains of Ayrshires—the nehenbrain family. She is owned by W. W. Ballantyne, of Stratford, who ates that she is one of the best in his herd. Note the prominent milk veins Authenbrain family. She is owned by W. W. Ballantyne, of Stratford, v states that she is one of the best in his herd. Note the prominent milk ve and capacious udder.—Photo by an editor of Farm and Dairy.

> stable thoroughly aired and the bedding replaced It pays to give attention to the ventilation of the stable. Cows will not do their best in a close. stuffy stable, even if it is warm. Pure air is more easily warmed than is foul air .- Crockett Bros., Antigonish Co., N.S.

Farm Li'e Assumes a New Interest when one has a String of Live Stock of Marked Uniformity in Color and Breeding to work with.

This splendid string of youngsters was bred and raised by G. A. Brethen on the first prize farm in the special Good Farms Competition for Peterboro County, Ont., conducted last year by Farm and Dairy,—Photo by an editor of Farm and Dairy,

Breeder and Buyer, Attention!

Prof. H. S. Arkell, Ottawa, Ont.

One of the straightest reasons that I knew for the comparatively small profits that some of our less well known breeders of pure bred stock are experiencing lies in the fact that their animals are not fitted for sale. The feeling is too prevalent that because an animal is pure bred it should command a correspondingly high price. Such is not the case, and never should be the case. If it is worth while to put a little extra expense and fcrethought into the breeding of a calf, it is the more worth while to give a little extra care and attention to the feeding of it. It is just the additional forethought in the first place and the extra attention in the second that will give it value, and continue to give it value.

I know of breeders who plan to get their surplus or saleable stuff through just as cheaply as possible, thinking that by this means they will save the biggest margin between the actual cost and the price for which they may sell. It's a wrong policy. The best of the effort should be given to the stuff that is to be put upon the market. The market is the testing place of a breeder's laber, and unless he can meet its demands he must fail.

MAKE ANIMALS ATTRACTIVE

A carriage builder thinks more of the "finish" given his vehicles than perhaps of aught else, and the varnish must be flawless before they go into his showrooms. A breeder ought to realize that he must make his animals attractive to be marketable. A reputation is gained and success achieved by what is sent from the farm, not by what remains at home.

At an auction sale, one man presents his herd in beautiful shape. Their coats are right, their ribs are well covered, they are kind at the halter. They command the top prices. Another sends his lot forward out of the pasture field, and they look the part. This man goes home in no very enviable mood, and sneering perhaps at his rival's success. To his shame, be it said.

The comparison is true of animals sold by private sale. Nobody wants to buy a colt with burrs in his tail and which acts like a mule at the halter. It doesn't pay to grudge a calf its Sheep look bigger when they carry a good fleece than they would if shearing were delayed till June. A few peas wen't do them any harm. Hogs are rarely exported to the next province that chase over a ten-acre field for their provender. Yet they are the better for standing strong on their legs and being good in the wind. When a buyer goes to a place and gets what he wants he will go again. If he doesn't, he won't.

There should be no occasion to seek foreign markets for the pure bred stock bred in Canada. We have need of it at home. It may be

that the local demand will be a surprise to us in the next few years. The man who has the stuff that is wanted may yet find himself fortunate

There is no better time to prepare for next eason's market than during the winter months. The English feeder knows his business, and is never idle. Next year's sale is his great ambition, and he spares no pains to get his animals "fit." When Canadian breeders take equal pains, they may achieve equal success. Not

Facts about Breeds of Sheep

A. Stevenson, Perth Co., Ont

Any one of the well known breeds of sheep are possibly as good as any. Whatever breed one would fancy is the breed he will be most successful with. A little depends on the accommodation available. For instance, a short-wool breed will endure more cold, wet weather than a long-wool



"Guaranteed Pure Wool"

breed. Snow and rain will not penetrate into the pelt nearly so readily. If it is for mutton purposes sheep are kept, a cross is advisable. A large, early-maturing, good quality lamb, is that bred off a "white-faced" ewe and an Oxford or Shropshire ram. You will get one class of lambs by crossing this way. They will be all grey-faced, and the wool will be all of one grade. By reversing the cross you will not get such a uniform lot. Some will resemble one breed and perhaps the other twin lamb will resemble the other side. But let me caution that by no means keep any of these to breed from. It will not do. The ewes do not seem to be prolific, and they will be of a delicate nature.

I have just visited some of the dairy sections of Eastern Ontario and have come to the conclusion that dairying is not doing as well as it did 15 years ago. I saw some factories closed, while in other cases there were ash heaps where formerly there had been factories .- Prof. W. J. Kennedy, Iowa State Agricultural College.

Plant Selection and Breeding

T. G. Raynor, B.S.A., Seed Branch, Ottawa The art of breeding is said to be epitomized in the word "selection." Every breeder of live stock who has succeeded in benefiting his generation by improving his stock, knows what it means to select. He first fixes his deal. He photographs it in his mind, and then he keeps selecting until he has accomplished his end; but still he keeps on selecting in order to fix the type and hold it where he wants it. To do that is a work of art, and all honor is due to the men who are faithfully following up this line of work. Success must follow such efforts.

The principle involved is more or less true in plant as in animal life, and some men are now giving a good deal of thought and time to this work, and success which spells dollars and cents is one of their rewards. The name of Luther Burlank, that wizard of plant breeding, who has brought so many different varieties of plants, of more or less commercial value, into being, is a household name. Prof. C. A Zavitz, too, of the O.A.C., Guelph, is well and favorably known by his work with plants on more than a continent. Another wizard in the person of H. H. Groff, of Simcoe, Ont., of Gladioli fame and working in a private way, has made for himself a name, and is reaping handsome rewards for his skill in producing Gladiolas.

PRODUCING HIGH PRICED SEED

But coming nearer home to the average farmer it may be said that a number of good men are following along the lines of the Canadian Seed Growers' Association, and are doing things. For instance, it was only four or five years ago that Wm. Lewis, of Victoria Co., Ont, started to improve Siberian oats by selecting some of what he thought were the best plants in the field and sowing these on a breeding plot. He has been following up this method now for four years or so, and is now producing registered seed. His success has been quite phenemenal, for he now commands \$1.00 to \$1.25 a bushel for all the oats he can grow and fan to the desired standard. He receives more orders than he can fill, and has even filled an order to Aberdeen, Sectland.

The possibilities for crop improvement through plant selection are very great. Our various experimental stations are doing splendid work. Among them is the Central Experimental Farm. Ottawa, where the cerealist, Dr. Chas. Saunders, has done excellent work. Individual farmers in nearly all our provinces are now profiting by making selections from some of the strains sent out from the various experimental stations. There is room for more to take up the work. A farmer should make a reputation by improving at least one kind of crop with which he deals

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The There is of Ontari vinces of animals' w the grade farms. 7 older sett matter fo for their but eensie that perh tage to er pure bred between v

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The Trade in Pure Bred Stock

There is an acknowledged lack in various parts of Ontario, and a greater lack in other provinces of the Dominion, of high class breeding animals with which to improve the quality of the grade stock as more generally known on the farms. There are many localities even in our older settled provinces where it is a difficult matter for farmers to obtain satisfactory sires for their herds at reasonable prices. If we will but eensider these facts, it becomes apparent that perhaps something can be done to advantage to encourage more interprovincial trade in pure bred live stock and to create a better trade between various sections of a province

When the better class of individuals of farm stock is net available, farmers persistently continue to use scrub males. The results of their use are well known and are only too apparent at every hand. My experience has been that when really good animals are placed before farmers for purchase they will pay fairly remunarative prices. Is there not some better way than now prevails whereby the pure bred stock that is being produced in this country can be, at a reasonable price, placed before those who would and could use it on their herds to advantage?

DIFFICULTIES OF SMALL BREEDERS

Under prevailing conditions, there is not too much encouragement for any one to embark in the Lusiness of producing pure bred live stock. The average man does not understand or appreciate how to sell his stock through advertising. He probably has not the courage to Supposing a farmer goes in fer advertise it. Shropshire sheep. At the end of a couple of years he finds himself heavily stocked with pure breds for which he must have a market. Where is he to sell them at anything better than a local butcher's price? The same thing applies, probably not to so great an extent, in the case of pure bred dairy cattle, Canadian bred Clydesdale colts, and other stock.

There is a market for this stuff. The trick is to reach it. When we see large sales being conducted and the stock selling at most satisfactory prices, as for instance the sale of Holstein cattle by Mr. J. A. Caskey last March, the recent sale of Mr. Higginson's and others that might be mentioned, I for one am inclined te ask, can sales not be conducted with a fair degree of success by aggregations of smaller breeders? Might not it be possible for a number of breeders to organize, perhaps by cooperative methods, public sales much more generally than has been undertaken in the past? These would afford a more certain market than now prevails for any particular kind of pure bred stock and they should encourage many more men to embark in the pure bred business. WELL KNOWN ANNUAL SALES

In England and in Scotland they have the great ram sales during the latter part of August and early in September. Then there is the Birmingham bull sale. These have become annual events and local breeders have learned to depend upon them for their supplies. Ontario during recent years, sales such as I have in mind have been conducted at Guelph, Ottawa and last spring I believe there was one at Port Perry. These have not been all the success that their promoters would have liked. Perhaps a greater number of sales organized on a smaller scale would be more advantageous. I call to mind in this connection, an annual sale of stock which is held by some local association each year in the tewn of Lindsay, Ont. This particular event I understand to have been always a success.

Surely something more can be done to en-



Baby Beef

Specialties pay in beef production as they do in other lines. Read Mr. Garbutt's article on this page, in which he tells how he produces baby beef.

courage the more general breeding of pure bred stock and at least place pure bred males at the disposal of the farmers of this country who might be inclined to buy if they could get them at a reasonable price. I should like to see this matter discussed in the columns of your journal by some other readers of Farm and Dairy. If we could encourage by some practical means the development of our own Canadian trade in pure bred live stock, I believe that it would operate toward the development of our breeding industry generally and would at the same time render much assistance to those who are now engaged in the trade. - "Middlesex."

Slow Feed Mangers .- It sounds old fashioned, but the best slow feed manger for horses is easy to make by placing a few smcoth round cobble stones in the ordinary manger. These the horse noses about in procuring his feed. Salt for horses is as necessary as it is for human beings. The best way to provide it is by purchasing reck salt in quantities at the feed dealers and placing it in the manger.

Beef Cattle as Revenue Producers*

John H. Garbutt, Peterboro Co., Ont.

A stableful of good beef cattle is as good and as profitable from the standpoint of maintaining the fertility of the soil as would be a stableful of dairy cows. The profits from the two, if we figure all items and especially labor, compare favorably, and this last year even better in favor of the beef, than of milk, figuring the cost of milking.

The matter of labor is a serious handicap when it comes to dairying. I cannot find much profit in the business when I have to pay a man \$30 a month and board him. Besides, nowadays a good man who knows how to milk and likes to milk is almost impossible to get. I have been brought up to beef cattle, and on that account feel quite at home with them

My methods of handling the cattle reduced the labor item to a minimum. I keep what one might term two sets of cows. The one lot, the pure bred Shortherns, I never milk, but allow the calves to suck them. The other lot is comprised of grade Shorthorns of a good milking strain. These, numbering six to eight, I milk.

I aim to have the pure bred cows freshen in December and January. The calves run with them until May 1st, when they are weaned. Then two calves are placed with each cow, and these are left with them until September, when the cews are allowed to run dry. Thus we raise three calves to each cow each year in the one lot. These cattle are grazed on a grass farm some miles from home.

SOLD AS BABY BEEF

The first calves of the year are sold for baby beef. These weigh from 850 to 950 pounds, on the average, though some of them have turned the scales at 1,000 pounds. These calves realize, if in proper condition, the topmost price, often from one half to one cent a pound over the ordinary price at the season of the year when marketed. The grade calves, raised on the cows after the first ones are weaned, are kept over until two and a half years old.

My stock, handled in the way indicated, realizes a good price for beef, often better on the average than if sold as pure breds for breeding purposes. The laby beef on the average realizes over \$50 a head, and this without any particular extra cost for feed except for a short time. Beef prices, of late months, have been improving. They have been much better this past year than ordinarily, and have gone up 30 per cent. and more. Good butcher cattle will bring six cents now and the baby beef considerably more.

*An article furnished by Mr. Garbutt as required y the rules of the Special Peterboro County Farms ompetition in which competition he was a successful







Daisy Bell's Darling

These two Jerseys are representatives from the noted herd owned by H. Dunan, Don, Ont. The aged cow, Lady Primrose, is a noted prize winner at leading fairs. She has given 49 lbs. 12 oz. of milk in a day. She took second prize in Toronto in strong competition this year. Daisy Bell's Darling is a two year old of great promise. She took second at Loudon, and third at Toronto in large classes.

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

Must Purchase Feed for Cows

We have plenty of mixed hay and corn-ensilage to feed to our dairy cows this winter, but will have to purchase most of the grain we feed. At present prices what feeds can be purchased and fed most economically? Most of our cows freshen-ed this fall, so we will be feeding quite heavily.—J. M. Oxford Co., Ont.

Ti is advisable to purchase feeds high in protein. Analysis of milk shows that it contains a very high per-ontage of nitrogenous materials. The carbonaceous materials that are ecessary can be furnished cheaply in

necessary can be furnished cheaply in the corn ensilage.

Gluten meal, brewers' grains, lin-seed meal and cotton seed meal as may be seen are very high in protein content. All of these feeds with the exception of dried brewers' grains seem very expensive when compared

with wheat bran. Their extra nu-tritive value however makes them much cheaper as feed for dairy cows. Cotton seed and linseed meal are the Cotton seed and inseed meal are the cheanest foods we can get at present for dairy cows but they are too heavy to be fed exclusively in the ration. They should be lightened up with wheat bran or some similar bulky material.

The following table gives the di-gestible nutrients in 100 pounds of the feeds tabulated

Protein Carbo-hydrates Fat Corn . . . Gluten meal Gluten feed 66.7 Wheat bran .12.2 39.2

mixed with other meal will not be eaten by most cows.
Gluten meal is probably the best food for forcing the milk yield of cows. When purchasing guten meal be sure not to get gluten feed. Gluten feed is poorer in protein and fat than gluten meal and hence has canada Company, frem which they

least 300 delegates from Ontario and the Eastern Provinces will be num-bered in this monster delegation.

bered in this monster delegation.

The delegation will meet in the
Grand Opera House, Ottawa, on
Thursday, Dec. 15th, under, the auspices of the 'Canadian National
Council of Agriculture.'' Some of the
subjects, which will be up at the Conference in Ottawa for discussion will
be: Tariff Reduction, Free Trade
in Agricultural Implements, Better
Trade Relations with the United
States in Agricultural Forducts, Government Ownership of the Proposed
Hudson Bay Railway and Government
Ownership of Terminal Elevators.

Items of Interest

Pure bred animals for breeding purposes imported into the United States after Jan. 1, 1911, must be accompanied by certificates from the Bureau of Animal Industry, Wash., certifying that they are pure bred and duly registered in the foreign bock of records for that Lreed.



Duchland Sir Hengerveld Maplecroft, No. 5280 (Imported)

This richly bred young bull owned by Mr. A. D. Foster, Bloomfield, Ont., is offered for sale by Mr. Foster in order to avoid inbreeding in his herd. The sire of this bull, Peletertie Hengerreld Count be Kol, is the sire of more large milk record cows than any other bull of the breed. See Mr. Foster's advertisement in the live stock col-

of the feeds as given and comparing with the prices of the feed decide which food it will be advisable to purchase. A mixture of grains is always better than feeding them

In most parts of Ontario a ration In most parts of Ontario a ration consisting of two parts gluten, two parts cotten seed or linseed meal and three or four parts of bran if all meal must be purchased would give good creatlts. Feed about one pound of this mixture for every five pounds of the control of the country of the cou

Monster Delegation to Ottawa

Full particulars as to the arrangements that are being completed for the monster delegation of farmers to Ottawa, to wait upon the Gevernment Ottawa, to wait upon the Gevernment in regard to the tariff and other matters of vital importance to the farmers and others of Canada, are set forth elsewhere in this issue under the heading 'Grange Notes.'' The Western Provinces expect to send at least 500 delegates. These will be conveyed to Ottawa by two special trains. A number of Granges, as well as Farmers' Clubs and Cheese Beards in different parts of Ontario have already appointed delegates. Other organizations not already having done so are advised to appoint their delegates forthwith. gates forthwith

not the same milk producing proper-ties.

One can by study of the composition

have purchased their property, must account to them for any royalties it has received for gas taken therefrom.

The men picked from the fourth The men picked from the fourth year students in agriculture at the Ontario Agricultural College to represent the College in the judging competition at the International Live Stock Show at Chicago are: H. A. Dorrance, J. E. smith, R. G. Thomson, W. Toole and J. B. Whale.

The official prosecutor of the East-ern Ontario Dairymen's Association recently secured convictions against 23 farmers at Plantaganet, Ont., for adulterating their milk. These farmers were fined \$700 by the magistrate who registered the convictions. If factories paid for their milk by test instead of by weight, it would soon do away with this form of fraud.

Homestead Holsteins My crops were ruined with hall, so I must sell 10 cows or heifers in calf to Peter Teake, O.A.C., No. 490.

Two miles from Harrietsville Station, C. P.R. Visitors met by appointment, or from phone connection with station.

B. R. BARR, Harrietsville, Ontario Middlesex Co

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KNOWN THE

WORLD OVER

203

It is desirable to mention the name of this publication when writing to Advertisers.

Aim fo C. W. 1

Decembe

One of majority of first litter. raise a goo chances of in after y than if she of her firs the main as the part that are a The most

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Other than given, it sho tion increas gresses in th ture rises se mal and the six to 24 h pearance of termination eased anima ination of veals the pre-ial under the sound may under the s

A cure for

Aim for Good First Litters

C. W. Nash, Simcoe Co., Ont.

One of the greatest mistakes the majority of swine raisers make is in neglecting the young sow with her first litter. If we can get her to raise a good litter the first time, her raise a good litter the first time, her chances of raising good even litters in after years will be much better than if she raises but three or four of her first litter. This is one of the main causes of uneven litters, as the parts of the manumary glands that are unused will never be as good as those that were used.

The most of farmers who have had The most of farmers who have had young sows lose the mest of their first litters laugh on such occasions and say, "Oh, well, it was her first attempt; she will do better next titme." She probably will raise mcre another time, but they will not be of the same quality as they would have been had she raised a good litter the first time. ter the first time.

sometimes happens that young sows do not have many the first time, and of course in that case it can not be helped, but more often they

Not Enough for One Litter

lose a large part of them, and then in after years when their pigs are uneven in size they are condemned as pror breeders, when the truth of the matter is that with a little pro-per care at first they would quite likely have been good profitable brood saws.

Mysterious Disease of Cattle

Several outbreaks of some mysterious disease, which has carried off several calves, have recently occurred in Peterborough County, Ont. The calves on being attacked show loss of appetite. appetite. Rumination ceases: The affected calves draw away from their fellows, become stupid, and apparently suffer little or no pain. On investigation, the disease proved to be none other than Black Leg.

This disease is confined wholly to the wanner animals. Cattle over the wanner animals. Cattle over Rumination ceases.

This disease is confined wholly to the younger animals. Cattle over two years old are said rarely to be affected with it. In a typical case of Black Leg as the disease develops, the animal will show lameness in one quarter. In those cases that came under the writer's observatior, this symptom did not appear.

Other symptoms already given, it should be said that respiration increases as the disease progresses in the animal. The temperature rises several degrees above normal and the animal dies usually from six to 24 hours from the first as mal and the animal dies usually from six to 24 hours from the first appearance of the disease. Near the termination of the malady in the diseased animal and after death examination of the affected quarter reveals the presence of a frothy material under the skin. When the hand is passed over the skin, a crackling sound may be heard as if bubbles under the skin were being broken.

A cure for an animal that has con-

tracted this deadly disease is out of tracted this deadly disease is our or the question. The only remedy is a precautionary one, that of inoculation with Anti-Black Leg vaccine. Young cattle one inoculated with this vaccine are immune for a period of about a year. The vaccine iod of about a year. The vaccine is supplied by the Department of Agis supplied by the Department of Agriculture, Ottawa. It is put up in a form such as any farmer may use. It is supplied at a nominal cost, five cents per head of stock.

There seems to be a widespread least of its contract of the contract

There seems to be a widespread lack of information as to this deadly malack, Black Leg and as to how readily it may be controlled by Anti-Black Leg vaccine if the entile are inoculated before being attacked by the disease. Quite a number of farmers in this County and I presume elsewhere have lost calves, often all that they had attacked by sume ensewhere have not caives, orten all that they had pasturing on low land where the bacteria producing this disease is said to flourish. They decidently believed that the ravages of this disease were quite theyout their —Mr. O. Walker, Peth Co., Ont.

control and have taken it as a matter of course that they should lose these animals.

It would seem that the Health of Animals Branch of the Department of Agriculture has been grossly negliof Agriculture has been grossly negli-gent in this matter in that they have not informed the breeders of cattle throughout this country of these remedies and how they may be ap-

From the recent experience of some Peterboro farmers who have lost cat-t'e from Black Leg it would seem t'e from Black Leg it would seem that thousands of dollars might be saved to the cattle breeders of this country if they knew more about these measures and took steps to im-munize their stock from the disease. —"Peterboro".

Farmers

Will it be possible for farmers along the Hydro-Electric power lines to make use of this power for lighting and driving machinery?-J. C. N., Oxford Co., Ont.

It is impossible to supply farmers or small communities off a high vol-tage line, but farmers living along the route of the low tension lines can be supplied. For instance the line be supplied. For instance the line from Woodstock to Ingersoll, Wood-stock to Tillsonburg and Norwich, the line from Port Credit to Bramp-ton and many other similar lines will be able to supply power to farmers.

The Hydro Electric Power Commis sion in selling power to radial rail-ways will stipulate that power must be sold to the farmers, small com-munities, villages, and so forth along the line at prices to be fixed by the Commission.—Adam Beck, Chairman of Power Commission

SHORT WINTER COURSES

WILL BE HELD AT THE

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wound on drums projecting both ways
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Write us for further information and sale prices on ster Carriers, Stanchions and Steel Stalls.



No. 19. 1910 MODEL

Plate No. 19 represents Beath's Heaviest
Type Feed and Little Carrier — a machine
that will handle the market loads with
ease. It is built for large the large wrought select
and the large trans gives it great strent
and being fitted with triple purchase hoist
and slow gear, any boy can handle heavy
loads quite easily.
The machine is

rotats quite easily. The machine is also equipped with Beath's Patent Automatic Clutch Break, which makes the lowering of the box an extremely simple operation. The box can be stopped at any point in its descent produced that the control of the c

W. D. BEATH & SON, Limited, TORONTO, CAN. Live Agents Wanted



Poultry Raising that Pays It All Back-And More

An An Dates—Anth MOPE

Many adular interested in positry raising a never comes lasely for the striplet earns of more than the striplet earns in several. The way to set your timery exhaust to do not never the fit to know exactly and to do not not to the consistency of the striplet of th

How to select most prolitable breeds; feeding; markeling eggs and poultry for profit; natural and artificial brooding; natural and artificial fronds of hen; combination plant; poultry appli-ances; enemies of poultry; poultry houses and management; furkeys; water fowls, squabs, etc.

quabs, ek.
seides all this, the I. C. S. is associated
the largest positry farm in the world
the largest positry farms where experition of every unity parms where experition of every state of the benefit
the of the benefit
the time and money it saves, and in the
ain success it assures, this course pays
teelf many many times over.
Learn how you can make the course

learn how you can make a success this write to-day for full particulars to

INTERNATIONAL CORRESPONDENCE SCHOOLS, Box 7991) SCHAMTON, PA.

DRILLING

WILLIAMS BROS. Ithaca, N. Y.

AGENTS WANTED

\$5.00 a day easy. No experience needed. Sells on sight. Absolute necessity to farm-ers. Does work of 30 men. Pays for itself in one hour. Write to-day. MODERN in one hour. Write to-day. MODERN MACHINERY CO., Box 97. Sarnia, Ont.

Dairy Cattle in Western

This past season has been a record breaker so far as exhibits of pure bred dairy animals at the largpure bred dairy animals at the larger western fairs have been concerned. At Calgary, Portage la Prairio, Brandon, Regina, Saskatoon and Edmonton exhibitions the dairy classes were in each case, stronger than they have ever been Lefore. Not only this, but the interest attached to the placing of the awards was such as to indicate that there was sufficient sympathy with the cause of dairying throughout the country to fully war-throughout the country to fully warthroughout the country to fully war-rant the breeders in acquiring and showing first-class stuff.

That the Showing first-class stuff.

AVRSHIRES IN THE LEAD

The three breeds, Ayrshires, Holstein and Jersey—were all well to the fore. Perhaps, taking the West as a fore. Perhaps, taking the West as a fore. Perhaps, taking the West as a fore. Then she is small and doesn't take so much feed nor anace as the larger and more rugged Holstein. The Holsteins and Avrshires find especial favor with the farmers and city dairymen. The western farmer who makes his own butter likes the Ayrshire equally as well as the Holstein but the man who lives near the city or who is selling to the city whole-salers at so much per cett, wants the Holstein and no doubt about that. ROLSENEN RECOMING POUPLAR

HOLSTEINS RECOMING POPILIS
And there is also little doubt but
that the Holstein is fast growing in
numbers all over the prairie West.
We like her here because of her great
hardiness, and her big milk flow. The
fact that she requires lots of feed
makes little difference as the western
farmer has roughage in abundance,
as a rule. There are very few Guernsexs in the West, practically none. HOLSTEINS BECOMING POPULAR

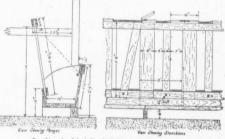
as a rule. There are very few tinern-sevs in the West, practically none. Among Western horsemen the Clydesdale is by far the most popular draft bread. At all the shows this is always the one breed of draft horses greatly in the lead. Not so with the dairymen. The three breeds of dairy dairymen. The three breeds of cattle mentioned are all strong ders for the premier position. At one

fair one breed will be in the lead while the order will be reversed at the next show on the circuit. At Cal-gary fair this year a person would have to study the situation rather closely to say which breed was in the lead. At Winnipeg the Helsteins greatly outnumbered the other two greatly outnumbered the other two breeds but they were not up to the quality of the Ayrshires and Jerseys, the Ayrshires being the strongest on the grounds in this respect. At Bran-don exhibition the Ayrshires made the best impression, also at Begins, Sas-best impression, also at Begins, Sas-less and the stronger of the strong late of the stronger of the strong late of the stronger of the show was not nearly up to be nearly as show was not nearly up to the mark set by the fairs on the prairies. Jer-seys and Holsteins were the only breeds shown and from what I could breeds shown and from what I could find out the former breed has a very strong following in the coast province. The small showing of dairy cattle at Vancouver should not be taken as an

Points about Calf Rearing

N. C. Campbell, Brant Co., Ont. Like the poultry and some other departments of the farm that are often thought to be of little importance, and hence have been assigned to the care of the children, or perhaps the women folks of the farm, the calves and the matter of raising the calves and the matter of raising them are not always given the care-ful consideration of the stockman. This is a mistake. It has been thought that any one could raise a call. We are beginning to know better. We are finding out that it pays to take the right care of calves. The cow of to-day is but the call of yesterday, figuratively speaking, hence upon the calf depends the caw.

Cleanliness is an absolute essential if we would raise good calves. Filthy buckets, sour milk, and neglect such as is the common lot of so many indication of dairy strength in that calves, are fertile sources of many



Stanchions for Calves Greatly Facilitate the Work of Feeding

Calves can be more easily attended to and they will thrive much better where they are fastened in stanchions for a short time while and after feeding. The side of the call pen may be fitted with stanchions modelled after the design here given. By teeding a little clover hay after the calves have had their milk, they may be unfastened and allowed to run together when they will not show a tendency to suck one

things about the milk and butter busi-

The drought in many sections of the West this season has had a stimulating effect on the dairy business. From those districts suitable for dairying that have been more or less affected by dry weather, breeders are receiving numerous enquiries for stock. Cows and heifers sell like the proverbial hot cakes while the demand for dairy bulls is greater than it has for dary only is greater than it has ever been before. Those men who have dairy cows for sale are sought by Luyers instead of their having to seek for buyers. We now have a number of western men with considerable sized herds of purebred dairy cattle. The general statement from them all is that the demand for stuff is so strong that it is most difficult to keep up the quality of their herds

the temptation to sell is so great. City dairymen will buy most any thing that will give milk, and at most any price. The dairymen who supply the city trade are having increased demand for milk while the supply of cows is not keeping pace with the increased demand, hence the high increased demand, hence the high prices for milch coss. Western farmers, too, are fast realizing that straight wheat growing n not the most satisfactory kind of farming. It provides an income only once a year and where the drought struck worst this season there will be no payday at all. Dairying offers a year-round income and a profitable one at that. Moreover it does not eliminate grain growing but makes it possible to secure larger and more certain yields.—"Westerner."

western province. There is great calf ailments notable among which probability that some day British Col- might be mentioned scours. Calves until will be able to show dairymen should not be allowed to suck one in other parts of the Dominion some another after being fed their milk. should not be allowed to suck one another after being fed their milk. Much trouble and many unthrifty calves result from allowing the calves to follow this practice. In the case of bull calves particularly this prac-tice of sucking is unhealthy for they often suck the urine.

often suck the urine. Calves at feeding time should be secured in small stanchions so that they do not tip over each other's mess or get in the habit of sucking each criter. While the milk is still on the work of the consecuence of the conse fellow to get his meal by sucking, it seems hard for him to do anything seems hard for him to do anything clesc. A little alfalfa or clover hay fed immediately after the milk and while the calves are in the stanchions will help them to forget their desire to suck and when loosed they will go off about their business.

The stanchions reproduced herewith and which I have taken from a Michigan Bulletin are well arranged and quite easy to build. These have These have quite easy to build. These have little mangers in front of them, wide enough to set the feed pails into. These should be kept clean, and, as soon as the calf is old enough to eat oats and bran, it should receive a small quantity in the manger.

A nleased subscriber is Mr. Francis H. Wright of Middlesex Co., Ont., who has just won a pure grow farm and Dairy in returned pig from Farm and Dairy in returned culus on nine new yearly subscriber in this paper. The pig sent Mr. Wright was bred by Mr. Henry Glendenning, of Manilla, and Mr. Wright writes us that it is a fine specimen of the breed. We have several more equally as good pigs we will send to other subscribers on the same terms.

Unless on satisfactory to investigat ence entailed common in f an enormous

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John I.

Although No. 1 pou get it in amount of fully 75 p placed on

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For this every farm in any qua breed and We can

clusions or different br or one is all breeds shut our e If one bree then we cho and when the first ste to start po after our has been p the poultry one kind, b breeds that apply to in care. By breeds such Orpington ther: one one r cise than t results in e

A choice laying a pur

J. H

son of the Farmers

Provinces

le, Ayrshires have the lead. They followed closely however, by the are followed closely however, by the Holsteins and Jerseys, the popularity of these two breeds apparently being in the order last mentioned. The denure and sensitive Jersey is fast gaining ground with us, especially the control of the property of the property of the two controls of the property of the property of the two controls of the property of the property of the property of the two controls of the property of the property of the property of the two controls of the property of the pro as a town cow or where onty a rev are kept. The city man who has a back lot large enough for a barn to stable a cow and a horse in the winter time prefers the Jersey. He likes her rich cream for his porridge and coffee at breakfast while she will also give plenty of milk for drinking. Then she is small and doesn't take so much feed nor snace as the larger on much feed nor snace as the larger. as a town cow or where only a few are kept. The city man who has a

FIRST ANNUAL

Toronto Fat Stock Show

UNION STOCK YARDS

TORONTO

MONDAY AND TUESDAY

DECEMBER 12th & 13th 1910

Grand Display of Live Stock. Auction Sale of Prize Winners

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J. H., ASHCRAFT, Jr., General Manager UNION STOCK YARDS, - TORONTO

POULTRY YARD

Keep But One Breed Only

John I. Brown, Poultry Expert. Montreal

Although high prices range for No. 1 poultry, it is very difficult to get it in comparison with the large amount of poultry produce offered; fully 75 per cent. of the poultry is placed on the market in such a condition that it can be rated pnly as second and third class goods—hence it can bring only the second and third class price.

not appeal to the eye, and no special interest can be taken in anything unless we are deeply interested in it.

well to look into this matter, and if went to look into this matter, and if they are desircus of obtaining the hest results for their efforts should endeavor to get a breed that will bring the best market price or in other words that is most in demand. They are perfectly safe in choosing any of the following breeds: Rocks, or the following breeds: Rocks, Orpingtons, Wyandottes or Rhede Island Reds, but after all is said we cannot get away too far, from the farmer's standpoint, frem the good old Barred Plymouth Rocks.

Poultry Sold While Alive Miss C. A. Adamson, Peterboro Co. Ont

it can bring only the second and third class prompt on the second and third class properties. It came as welcome news to us that, in the case of nearly all kinds of poultry, it will realize as much times more, breeds, and umprises in color more shades tun training the color more shades tun training the color more shades tun and no constant to the even and bens sold during late June and early July realize us a price fully twice as great or greater than they would July realize us



Ship us your live and dressed POULTRY. fresh dairy BUTTER and new-laid EGGS.

We have unusual facilities for disposing of both large and small shipments satisfactorily. We have the largest outlet of any house in Canada for farm produce. We have spent years specializing along this line. This valuable experience is at your service when we handle your goods.

We want large quantities of TURKEYS. GEESE, DUCKS, CHICKENS and HENS, either live or dressed. Personal attention given to each shipment, which means a Square Deal for every shipper. PAYMENTS DAILY.

IMPORTANT NOTICE TO FARMERS RE THE SHIPPING OF DRESSED POULTRY

All fowl should be starved at least 24 hours before being killed. Kill by bleeding at the mouth or throat. Dry pick while warm, leaving no feathers on whatever. Leave heads on Chickens and Turkeys, and take them off Ducks and Geese. Hang up until quite cold before packing. If possible, wrap each bird in paper, this will keep them from getting bruised, or sweating if weather is warm, or freezing if too cold.

We are also realizing good prices for fresh Dairy Butter and new laid Eggs.

Egg cases supplied, also crates for live poultry.

Always ship Express.

Write, wire or phone for further information

THE DAVIES

James St., TORONTO - Phone Main 5301



An Annual Event to be Remembered on Many a Farm

Unless one has a real fancy trade which pays prices above the ordinary just as satisfactory real properties of the product of the satisfactory real properties of the product of the satisfactory real product of the satisfactory of the produce and causes an enormous less to producers annually.

For this reason it is advisable on bring later on in the fall or now every farm, where poultry is kept dressed and sold locally. every farm, where poultry is kept in any quantity at all, to have one breed and one breed only.

We can come to one of two con-We can come to one of two con-clusions only in reference to the different breeds which we would like to keep. They all must be equal, or one is better than the rest. If all breeds are equal, then we can shut our eyes and pick at random. If one breed is better than the rest, then we choose this particular breed, and when we do so we have taken the first step which should be taken to start poultry raising on a farm, after our accommodation for same has been provided. Not only will the poultry look better if it is all of one kind, but we can hardly get two one kind, but we can hardly got two breads that the same conditions will apply to in reference to feed and care. By this we mean that two breeds such as the Leghorn and Buff Orpington would not do well toge-ther one requires much more exer-tions of the best of the best results in egg production or in the fleshing of the birds during any sea-ting.

bring nates dressed and sold locally. Before going to the labor and the general inconvenience caused by dressing a lot of poultry for a local market, I would advise anyone to anouire as to prices that can be specified. enquire as to prices that can be realized for the stuff if sold alive. The work of the women folk on many a farm this past year has been greatly lightened through the poultry being disposed of alive.

Offered a Premium .- Good stock Offered a Premium,—Good stock always sells at a premium, and it is as true of poultry as of any stock. Recently a buyer on learning that a local man was interested in Wy-andotte fewl offered this man 36 cents a dozen for all the eggs he would have from November until the first of July next, provided he had good white Wyandottes. The man did not accept the offer. Was he wise? Wouldn't it pay you to get into some first class peultry?

No feed should be given fowls for fleshing of the birds during any sea-son of the year.

Farmers and producers would do

ELM GROVE POULTRY FARM

 Λ choice lot of MAMMOTH BRONZE TURKEYS for sale. Improve your flock ying a pure bred Tom Turkey. Also good Cockerels for sale, Single Comb Brown Leghorns and Rouen Ducka norcas, 8. C. White Leghorns, Rose Comb Brown Leghorns and Rouen Ducka

J. H. RUTHERFORD, Box 62. Long Distance Phon CALEDON EAST, ONTARIO,

One of the best farms in Western One of the best farms in Western On the British of the British



SYNOPSIS OF CANADIAN NORTHWEST LAND REGULATIONS.

A NY person who is the sole head of a
family, or any male over 19 years old,
may homestead a quarter section f availdamaily or any male over 19 years old,
may homestead a quarter section f availthewan or Albertal damailment of the contensor of the control of the control of the condepend of the control of the control of the conpagency of sub-Agency, for the District
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earh homestead patent) and cultivate fitty acres extra.

A homesteader who has exhausted his homestead right and cannot obtain a present of the control of t

Look up our Pig offer. It will in-

Pure Breds in Nova Scotia

M. Cumming, Sec. for Agriculture M. Cumming, Sec. for Agriculture
Pure bred stock is more appreciated in Nora Scotia to-day than
at any previous time. The point of
view, however, in regard to this
class of stock has, in consequence of
the experience and experiments of
the experience and experiments of
the past few years, changed. It is
not long since even well informed
farmers in this province would buy
a pure bred bull simply because he
was pure bred. The consequence was
that many an inferior individual. was pure ored. The consequence was that many an inferior individual found a market in our province, and for a time, on account of the un-satisfactory results, brought pure bred stock under a ban. Now the most of our farmers realize that in-dividualize is of dividuality is of as great importance in a pure bred animal as in a grade and they are insisting upon this indi-viduality.

CHARACTERISTIC ENQUIRIES

I should say that three out of four letters of enquiry which we receive at the Agricultural Cellege for pure at the Agricultural Cellege for pure at the Agricultural Cellege for pure bred dairy sires contain some of the following statements: "We want a good, vigorous, strong animal." "He need not have all the fancy good producing strain." "How much milk or butter does his dam give." This is as it should be, and this demand is having its effect up-on the pure bred stock breeders. on the pure bred stock breeders. Whereas a few years ago very few of the breeders of dairy stock could give yeu the records of their various cows, now the majority can do so, and there is no doubt that those who and there is no doubt that those who are at present more or less ignoring the importance of this feature will, as soon as they can get their stock bred up to it, go in for keeping records too

So far as the beef breeds are con-

Self

Oiling

cerned, milk records are, naturally, seldom kept and often not asked for. However, the same relative importance is being attached to the individuality of the Beef animal as to the dairy animal. And in passing I should add that there is a greater



M. Cumming, B.A., B.S.A.

Secretary for Agriculture and Principal of the College of Agriculture, Truro, N. S.

demand than ever for a fair milk record even from animals of the beef

DAIRY BREEDS MAKING PROGRESS

While the beef breeds are about holding their own in the province, the dairy breeds are making marked progress. There is quite an increase in the number of breeders of dairy stock, and dairy bulls are commanding almost as high a price as beef bulls. A noticeable feature is that a number of the smaller farmers are aiming to get, along with their grade cows, one or two pure bred

cows upon which to build up a larger pure bred herd. This feature is to be highly commended, for in this way, if a larger are a build in a few years, a farmer can build in the bred herd at a comparatively little gate expenditure than a grade herd.

We need lots more good pure bred dairy cattle in the province and everything that the press attempts in the way of enceuraging a further development along this line will be greatly appreciated. Still there is a limit, for, while that limit is far from being reached at the present time, yet we realize that the real hope of the country rests upon the from being leading as the present time, yet we realize that the real hope of the country rests upon the grade stock which, however, needs to be improved and can be improved by the judicious use of pure brud bulls of good producing ancestry.

Doings in British Columbia

movement in live stors to British Columbia, is being that province. Under the A movement in live stock matters, new to British Columbia, is being pushed in that province. Under the direction of the Live Stock Commissioner, M. A. Jull, some short courses will be held this winter. Algready one has been arranged to inheld at Duncans, Dec. 14, and one at Comex, Dec. 19 and 20. These short courses will include live stock judging and practical demonstration.

short courses will include live atock judging and practical demonstration.

The Commissioner is of the initiation that there has been too much theoretical lecturing and Institute talking in the Province. He proposes that it is quite time that the Department got down to some practical work and did something of a practical nature for the live stock practical nature for the live stock men. The short ccurses for the most part will be run during Janu-ary and February and will be made a strong feature.

Have you forgotten to renew your

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World's Greatest Separator Standard Made up to Not Down to Price Points of Points of Excellency Excellency Crank Shaft Proper Height

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Everything that goes to make a good Separator is best in the "STAN-DARD." There is no other machine just as good. PROVE THIS BY A TRIAL.

Catalogue will be sent free and explains all about it. Send for it TO-DAY.

The Renfrew Machinery Co., Ltd. RENFREW, ONT.

CEMENT TILE MACHINE CO WALKERVILLE, ONT.

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December

Is Over-Pro The fear of than the mar many would-b

going more es setting. Man

The Orig This old and tree is said to be Intosh apples, no favorably known tario, descended, and Dairy by A, presentative for

due to the sam in years of ex are low and go profitably dispovest. This is du distribution. kets may be gli markets even where the dema

gines 1 Station trucks a

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It is desirable to mention the name of this publication when writing to Advertisers. It is desirable to mention the name of this publication when writing to Advertisers.

Is Over-Production Probable?

The fear of producing more fruit than the market demands has kept many would-be fruit growers from many would-be fruit growers from going more extensively into crchard setting. Many more have been de-terred from improving old orchards



The Original McIntosh Tree

This old and neglected specimen of a tree is said to be that from which the Mo-linosh apples, now so generally grown and favorably known throughout Eastern On carrio, descended. Photo furnished to Farm acrio, descended. Photo furnished to Farm by A. B. Campbell, District Re-presentative for bundar Co., Ont.

HORTICULTURE who have studied this question most closely have the least fear of overproduction. The opinions of some of cur leading fruit mea, and the question of overproduction of fruit follow.

low:
"We are not planting enough to keep pace with our markets. In some years of full crop, we do not spread eneugh to get a market, but the market is there."—Robt. Thompson, St. Catherine, Ont.

ket is there."—Robt Thompson, St. Catharines, Ont.

"There is no danger of over-production. Our markets are extending overy year. The Western market will be largely for Ontario fruit. We are now shipping five cars of fruit into that market to every one from British Columbia."—Harcld Jones, Mailland One.

British Columbia."—Hareld Jones, Maidland, Omania."—Hareld Jones, Maidland, Omania. The second planted, 1,000 are becoming unproteive in Ontario. Even if we do have to sell for less in the future, which is a sight as 17 per cent. on apples valuing my orehard at \$1,000 an arre. What we want is more activity in planting and the packing of a better class of fruit."—A. E. Sherrington, Walkerton, Ont.
"The maximum production of appless and the production of

Walkerton, Ont.

"The maximum production of apples in Canada and the United States for one year is 67,000,000 barrels.
Last year, only 23,000,000 barrels were preduced. Plant select varieties, produce high-class apples and they will sell well."—J. G. Mitchell, Clarksburg, Ont.

"Over production is a bug-a-boo."
was warned against over produce was warned against over produce.

E. Johnson, Simose, Ont.

"There is not the slightest ground
for fear of over production. We can
get the English market completely
and a good share of the apple market of Germany, Sweden and South
Africa. There is a great future for
fruit growing but the day of the
shiftless fruit grower has gone."—
Alex. McNeil, Ottawa. Ont.

Pigs That are Winners

It is gratifying to us to know that the premium pigs which have been given away by Farm and Dairy during the past past

r and

ing popu satisfactory their winners.
Mr. D. N. An
Gerson, of Lambten County, Ont., won four of Farm and Dairy's premium pigs. That he is more than satis-

D. N. Anderson

tied with his efforts to secure new clubs Farm and Dairy, is shown by the

Farm and Dairy, is shown by the following letter from him:

"For securing 38 new subscribers to Farm and Dairy I have been sent four pure bred pigs. They are four as, fine young pigs as are to be found in these parts. The first one was bred by Wm. Keith & Sons, of Listowel. It was a Tamworth and has been shown seven times and has received seven first prizes. I noxt received two Hampshires bred by Hastings Broa., of Crosshill, Ont. They are beauties, but have not been shown as there is no class for them. Frem Mr. Geo. Bennett, of Charing Cross, Ont., Farm and Dairy sent me a pure tario, descended. Photo furnished to Farm and Dairy pk A. D. Campbell, District Representative for Dundas Co., Ont.

I was warned against over production is a bug-a-boo.

I was warned against over production when 1 set out 12.12 acres in the was a Tanworth and has been the presentative for Dundas Co., Ont.

I was warned against over production when 1 set out 12.12 acres in 1882. I now have 170 acres and the demand is greater than ever and form and growers have been in profitably disposing of the apple in profitably disposing of the apple of the produced in New York State Futil Great Company of the produced in Ontario as there were distribution. While the usual markets may be glutted, there are always produced in Ontario as there were shared to the produced in Ontario as there were shared to the produced in Ontario as there were shared to the produced in Ontario as there were shared to the produced in Ontario as there were shared to the produced in Ontario as there were shared to the produced in Ontario as the produced in Ontario as

older at three different shows, and got

lst, 2nd and 3rd prizes.

"I am now thinking of working on
the \$1,500 offer made by Farm and
Dairy and have several new subscribers ready to send in now."

THE ONTARIO PROVINCIAL

GUELPH DECEMBER 5th to 9th, 1910

Magnificent Exhibits Of HORSES, CATTLE, SHEEP and SWINE, SEEDS and POULTRY.

Practical Addresses

Practical Addresses
A special feature of the programme of addresses this year will be ten addresses this year will be ten addressed this series will be opened by Mr. C. O. James, Ontario Deput will be a formed to the production. The production of the production. The production of t

Judging Commences Monday After-

noon, and Continues Monday Evening with some of the Best Classes of HORSES, BEEF CATTLE, SHEEP, SWINE and POULTRY

Single Fare Rates on the Railways For complete programme apply to the ecretary.

JOHN BRIGHT, Pres., Myrtle Station. A. P. WESTERVELT, Sec., Parliament Buildings, Toronto.

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Our Windmills are scattered all

over the world. We galvanize after completion. Towers are

We manufacture Gasoline Engines 1 1-2 to 50 Horse Power Stationary, mounted on skids or trucks and traction.



girded every 5 feet and double Our Factory SEND FOR CATALOGUES

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50 PURE BRED HOLSTEINS

WILL BE SOLD AT PUBLIC AUCTION

WEDNESDAY, DECEMBER 28th, 1910, at Brown Bros. Lyndale Stock Farm, Lyn, Ont.

The largest butter records for 7 day, and 30 day periods, ever made in Canada, were made at Lyndale by Sara Jerol Hengerveld 3rd-3-39 lbs, butter in 7 days, 12.37 lbs. in 30 days. The largest milk record was made by her dam Sara-Jewel Hengerveld. The combined butter records of these two cows-50.39 and 28.13—is greater than the combined butter record of any other cow and her daughter in Canada.

The Canadain record for a cow 8 mos. after freshening is held by an individual in the Lyndale herd. The sire and grand dam of Francy 3rd, 29.16 lbs. butter in 7 days, were bred at Lyndale

The sire and grand dam of Francy 3rd, 23.5 lbs. butter in 7 days, were bred at Lyndales COUNT DE KOL PIETERIJI PAUL. He bull which has beaded the herd for the past four years, will be sold. See the largest record the herd for the past four years, will be sold. See the largest past of a proper section of a

Sara Hengerveld Korndyke, whose dam Sara Josel Hengerveld An sold for \$2,00, will also be placed in the sale our herd having outgrown our stable accommodation, forces in a to offer this stock for sale. Included in the off ing will be a number of officially tested animals, mature cows with records up to 25 blas, is year old the felters up 10 blas; two year olds up to 19 lbs.

The best bulls obtainable have always been at LYNDALE. The stock offered by Public Auction on December 28th is the best and choicest breeding.

Watch Farm and Dairy in subsequent issues for fuller particulars.

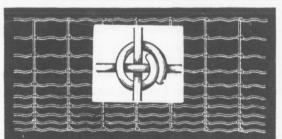
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be enormous, but we expect it will be taxed to the utmost. Don't wait until the day you want to use your fence. Or
der at the earliest moment. Our policy is to ship all orders the same day they are received. We will adhere as
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The following styles we carry in stock, and we can ship you a 28-rod bale or a car load.

6-40-0—has 6 line wires, 40 in high 22 in. apart, all No. 9 hard steel wire. Spacing 7, 7, 8, 9, 9. Price per rod... 21_2^1

7-40-0—7 Line Wires, 40 in. high, stays 22 in. apart. All No. 9 hard steel wire. Spacing 5, 6, 6, 7, 7%, 8, 8%. Price per **24c**

8-40—8 line wires, 40 in. high, stays 16½ in. apart, all No. 9 hard steel wire, spacing 3, 4, 5, 6, 7, 8. Price per rod . . .

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9-48-0-9 line wires, 48 in. high, stays 22 in. apart, all No. 9 steel wire; spacing 3, 4, 5, 5, 6, 8, 8, 9. Price per rod.. **30c**

9-48—Same as 9-48-0, with stays 16½ in. 32½ Price per rod

10-50—10 line wires, 50 in. high, stays 16½ in. apart, all No. 9 hard steel wire. Spacing 3, 3¼, 3¼, 4¾, 5½, 6, 8, 8, 8.

The above prices include freight prepaid to railroad points west of Toronto. East of Toronto add ic per rod to the price. To points in New Otherio, Quebec and the Marilian Provinces a special allowance is made to assist in paying freight. All fence put up in 36, 36 and 36 rod bales. Remit cash with your order by registered letter, post office or express order to

The Sarnia Fence Company, Sarnia, Ont.

Our Veterinary Adviser

BLIND COLT.—Colt now three years old. He was castrated at two years of age, and during the operation he struggied considerably. He has oeen blind ever siderably.

It is possible that the operation mentioned might cause blindness from a condition of the eye known as am-aurosis. Nerveus excitement, excessive sweating, hemorrhage and possibly excessive struggling may cause it. It consists in a paralysis of the optic excessive struggling may cause it. It consists in a paralysis of the optic nerve. In some cases the administration, of two drams nux vomica three times daily will help, but in most cases blindness is permanent. This is especially so when it is of a year's standing.

TWIN-SICK PIGS.—(1) Would a twin bull calf be all right to keep for a stock bull?

bull?

(2) At two weeks old a litter of pigs became dumpish, took diarrhoa and a wheezing which seems to be in the nostrils. I have checked the diarrhoa but the wheezing continues.—C. O. N., Norfolk Co., Ont.

(1) Yes. The fact that he is a tw

ill not affect his breeding qualities.

(2) The symptoms indicate infecous bronchitis and a recovery is doubtful. Put them in a close shut windows and so forth. Burn sulphur until you can no longer stand the fumes, then open windows and doors to admit air. If necessary redoors to admit air. If ne peat treatment in 10 days.

TUBERCULOSIS - What are the indica tions of bovine tuberculosis in a slaughtered animal?—M. E. M., Hastings Co., Ont.

The organ or organs affected will The organ or organs affected will present tubercular nodules varying in size from a millet seed to the size of a soup bowl or larger. When small they appear somewhat gritty when cut. When larger they usually contain yellow cheese-like substance and when still larger they contain pus

than yearow three-se-line substance and when still larger they contain pus with gritty particles.

The organ diseased will probably present yellowish spots. This is particularly noticed when the liver is diseased. When the lungs are diseased careful manipulation with the fingers will detect hardened portions which when cut open will present the conditions stated. Portions of the lungs or portions of stomach or intestines are sometimes attached to the walls of their cavities which may present many little elevations or nodules. When the glands of the throat are involved they will be hardened and contain cheesy matter or pus acand contain cheesy matter or pus according to the stage of development. As any organ may be diseased a very careful post mortem is sometimes ne-

Our Legal Adviser

WAGES FOR HOLIDAYS. - A hires B for a month and nothing is said in the agreement about holidays. Can B collect wages for working on the legal holidays?—W. B., Norfolk Co., Ont.

A workman is not necessarily entitled to enjoy the statutory holidays. The nature of his employment has to be taken into consideration. On a be taken into consideration. On a farm for instance, there is always a certain amount of work to be done even on a holiday, and in connection with other businesses he may'reasonably be expected to perform services on a holiday if pressure of work so requires. We do not consider that "B" can collect wages for working on the holidays in addition to the monthly salary agreed upon. If called upon to work on a holiday, without good reason he would be iuswithout good reason he would be justified in refusing, and would not be subject to dismissal on account of such refusal.

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

A Re T. Good much h the \$100.00 draft m at \$500 Severa of have

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A Review on Horse Breeding

T. Baker, Durham Co., Ont. Good heavy horses are selling much higher than ever before. Foals of the light kind are selling from \$100.00 to \$200.00 each. Good young

\$100.00 to \$200.00 each. Good young draft marses, if registered, are selling at \$300.00 and ever. Teams sell at \$500.00 and some even higher.

Several yearling colts that I know of have been sold at \$250.00 and on the value of high period of the best like in the control of the like in the

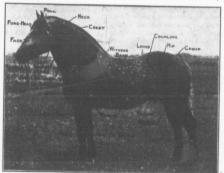
We consider raising heavy horses one of the most profitable lines that farmers can engage in. Any man who has a draft mare that is a regular and safe breeder should breed her to the best draft stallion obtainable if it cost \$20.00 or more. Too many good mares have been sold for the high dollar to go across the line and to the West and many mares are being used for dray purposes that being the first of the fact of farmers selling. The fact of farmers selling their good mares, then breeding untried and inferior mares, has been one of the worst and most costly mistakes the farmers of this country mistakes the farmers of this country mistakes the farmers of this country We consider raising heavy horses mistakes the farmers of this country

Government appoint the best three judges of heavy horses in Canada, to inspect every horse imported, with power to shoot or castrate all horses that den't measure up to a certain standard of excellence. Then there would be some encouragement to import higher priced and better stall-

Few Canadians comprehend the development and expension that is taking place in the agricultural, taking place in the agricultural, railway building, ming, and the commercial activities of the property of the property. Unless some misortume or financial crisis takes place to arrest cr check the unparalleled expansion and progress, which Canadians are enjoying, there is bound to be a good market and a strong demand for all the draft horses the farmers of Canada can produce. Motors are displacing horses to some extent, but I believe high prices will be realized for draft horses for several Few Canadians comprehend the ized for draft herses for several

Anent Bovine Tuberculosis

Editor, Farm and Dairy,—There seems to be abroad amongst farmers a prevailing impression that if a cow should get a cough she is tubercular. And it is true she may be.



The Points of a Draught Horse-First Lessons in Judging

Believing that many of its readers would like to have a chart showing the various points in a draught horse as looked for by expert judges. Farm and Dairy reproduces herewith an illustration giving this information as was published in a bulletin from the Wisconsin Station, "Draught Horse Judging," by Dr. A. S. Alexander.

There are enough draft stallions But because a cow has a cough, it the country, but there are not is a most irrational thing to do to arly enough good ones. There has condemn her for being a victim of There are enough draft stallions in the country, but there are not nearly enough good ones. There has been toe many cheap draft stallions imported with nothing to commend them but the magic word, 'Import-ed.' The coarse brutes are loaded with fat to cover their ugliness, then with fat to cover their ugliness, then sold to syndicates, greenhorns, and unprincipled stallioners, who travel them over the country at any kind of fee for their services. They are a detriment to the man that has invested in a good horse, and their progeny are often a curse to the man that has the services. They desire the services of the services the services of the services to the man that has the services them. A faulty sire will never produce first class stock unless by accident.

bever produce first class stock unless by accident.

THE GOVERNHENT HORSE COMMISSION

A few years ago the Ontario gramment appointed a commission of the comment appointed a commission of the comment of

Renew your subscription new.

condemn her fer being a victim of tuberculosis until further proof has been found. As a matter of fact, we are told by those in a position to know that very few tubercular ani-mals do have a cough except it be in the later stages of the disease when the lungs are affected, in which case one could, in all probability, diagnose the disease from outward clinical symptoms and from the ani-mal becoming emaciated. mal becoming emaciated.

I am prompted to write this little I am prompted te write this little note to caution the readers of Farm and Dairy in this connection on the following account: A neighbor of mine recently took fright and put a beautiful big registered Shorthern into a hole because she coughed occasionally, and he thought she had not been mine I also the control of the c tubercular, but had she been mine I would have known that she was tubercular before condemning her to an uncalled-for death. It would be far better in such cases to call in a qualified veterinarian and have him make the tuberculin test, 'then should the animal re-set, she could, under inspection, in all probability be sold for bef.—"Quackist," Halton Co., Ont.

How to Tell Age of Cattle At 12 months, an animal should have all its milk (calf) incisors in

Fifteen months. At this age the Fitteen months. At this age the central pair of incisors (milk teeth) may be replaced by a pair of permanent incisors (pincers), these being through the gums, but not in wear.

Eighteen months. The middle pair of central incisors at this age should be fully up, and in wear, but the next pair (first intermediary) not yet through the gums.

manent broad) incisors, fully up and

manene broad) incusors, then ye see in wear.

Thirty months, generally shows six bread permanent incisors, the middle and first intermediary fully up and in wear. The next pair (second intermediary) well up but not in tae.

Thirty-six months shows three pairs of broad teeth, which should be fully up and in wear, and the corner milk teeth may be shedding, with the corner permanents just appearing ner permanents just through the gum. appearing

pair (first intermediary) not yet through the gums.

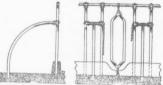
Twenty-four months. The mouth at this age will show twe middle (pre-through the gum are not in wear.

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FARM AND DAIRY PETERBORO, ONT.

THE MARKET FOR MILCH COWS

A few weeks ago an editor of Farm and Dairy accompanied a dairyman from Fort William who was out to buy a car load of milch cattle. Very few cattle of the class wanted were offering and all were priced so high as to be well nigh prohibitive.

The buyer wanted fresh milch cows. After inspecting a herd near Peterboro of twenty-three high grade Holsteins, although only a few of the individuals were fresh or would freshen before next spring, he offered a price averaging \$87 a head This price did not buy the cattle. The owner wanted something over \$100 a head. The cattle were a grand bunch. The individual records kept of these for the past few years showed them to have averaged nearly 9,000 pounds of milk each.

Seeing that there is and for some time has been a great scarcity of more heifer calves are not raised to maturity to supply the demand that calls so strongly for them. The degrow and to continue for years to laid upon the seven day test. Now vages when the outbreak occurred. man be wealthy he cannot clean up

come. Those who are in a position is the time to act before any damage their reward if they will but produce them. It is essential that these be raised from good sires. The man who will buy a high-class sire to head his herd of dairy cows has an attractive formance. proposition.

OFFICIAL TESTS OF DAIRY COWS

Champions of the yearly tests, es pecially since the introduction of the Record of Performance for pure bred dairy cattle, have been given to making light of the seven day and even longer short records. It would be idle to gainsay the contention that the yearly tests as compared with the seven day or even 30 day tests have the advantage. Nevertheless, seven day tests have been of great material benefit to our dairy interests and they have a large place in the estimation of all fair-minded dairymen. Seven day tests offer ample opportunity to the feeder for exercising his skill and they demonstrate the dairy qualities of a cow to a great degree.

Some expert authorities in the United States, notable among whom might be mentioned Professor Eckles of the Missouri Agricultural College, have, in a degree, pronounced against the seven day test as conducted by some breeders shortly after their cows have freshened. Their action seems to be warranted inasmuch as lately there has been a tendency on the part of a few breeders in the United States to unduly emphasize the importance of seven day records which has led them to adopt methods which are apt to bring discredit on this form of record and which are detrimental to the long continued production of a dairy cow.

It is centended that an abnormal percentage of fat is found in the milk of cows undergoing the seven day test. It is well known that by giving the cow a long period of rest and getting her into a high condition of flesh and being in the hands of expert feeders an abnormally high percentage of fat can, for a short period afterwards be obtained. Reference to the test of over 60 cows of the Holstein-Friesian breed entered in the Canadian Record of Performance test shows that as a rule, the first test dces not run higher than the average for the year. In a few cases, the first tests were high, but in these instances, we are informed, that each of the cows had been prepared by heavy feeding previous to calving.

Notwithstanding the known weak nesses of seven day tests, Farm and Dairy believes in them. These tests have been of great value in interesting farmers in the producing capacities of cows and they have shown up the possibilities of milk production in a manner most favorable to the dairy industry. There is a danger here, however for those breeders who may carry this thing too far. milch cows, it is passing strange that There has been no harm worked yet in Canada from seven day records but there is a possibility of breeders making trouble for themselves and mand for milch cattle is bound to for the breed if undue emphasis is

to raise good cows are sure to reap has been worked. Along with the judicious use of the seven day test breeders should look more and more to, and take greater advantage of, the possibilities of the Record of Per-

Seven day records to be of the most value should be accompanied with information as to feed consumed, period of rest before freshening and other information on those points which are known to be such important factors in influencing a high record of production for a short period after calving. The seven day records made after eight months of lactation are to be commended. This latter test is calculated to show the staying powers of a cew in long periods of production and there can be little if any objection taken to it on the ground of influencing the production of fat by undue earlier preparation, or while the cow is dry. This test might well be more greatly emphasized and be patronized more by the breeders of Holstein cattle. The need of the present day breeding is not so much to develop cows that will milk heavily for a short time but that will produce heavily and Le persistent throughout the longer or yearly periods.

THE DISEASE, BLACK LEG

Consequent upon the remarkable freedom from disease that has characterized the ordinary run of stock in this ecuntry, outbreaks of such maladies as Black Leg find our freeders without knowledge of the disease and without the means of combating it. Some serious local outbreaks of this malady, Black Leg, as noted elsewhere in this issue, have occurred recently in a few small sections of Eastern Ontario. One of the breeders, whose cattle were affected, on diagnosing the disease wired forthwith to Ottawa for a supply of the Anti-Black Leg vaccine. He inoculated all stock under two years of age but he was too late to save those animals that showed symptoms of the disease, five of which died. Had he been possessed of a knowledge of the deadliness of this malady and its likelihood to attack his herd, he might have saved his stock. As it is, this breeder has profited from his experience and now states that henceforth every calf bred upon, or brought on to his farm will be inoculated as often as necessary with the Anti-Black Leg vaccine, which can be secured from the Veterinary Director General's Department, Ottawa, at a trifling cost.

It is said that a number of calves on various farms in the neighborhood on different occasions have died from what was believed to be the disease, Black Leg. No effort was made to prevent other animals from being infected. In fact, very little was known about the matter. There seems to have been an air of mystery about the disease. Farmers have accepted their loss as a matter of course and one which could not be prevented. Even the local veterinarians had but the most general conception of the disease. They were wholly unprepared to check its ra-

Black Leg is a bacterial disease. It affects young cattle of an age under two years. The germ causing the malady is said to lurk and flourish in low lying lands where it may live for years and then cause an outbreak of the disease. The Anti-Black Leg vaccine is recommended as a sure preventative. Breeders who are likely to have stock infected with Black Leg and all breeders of cattle are liable should consider the matter of treating their stock so that it will be immune from the disease

HEALTH OF LIVE STOCK

The matter of the health of live stock has become a great and is yet a growing problem in Canada. It has many divisions. Tuberculosis is the greatest. In this matter it has been charged that the dairymen are the grossest sinners. It is not our purpose here to accept this challenge as being just or unjust but rather to give out a few words of caution.

Fresh air is absclutely essential to the health of any animal. Stables cerked up tight, having little or no ventilation, heated, and the cattle being forced under hot house conditions are far from right. It is highly improbable even that big records can be gotten under these conditions unless there be fresh air provided. Any who keep their stables in such a condition are laying up trouble for themselves later on.

The ordinary stable is not such as to favor the general health of an animal, not to mention the manner in which it fosters tuberculosis. It is doubtful if there is any need of having a high temperature in a dairy stable. Rather should there be a uniformity of temperature and as much fresh air as possible.

We need to practise more common sense in dairy stables. We need to beware of fads. Some of our breeders are now advocating no divisions in mangers. Who can say but that in advancing the advantages of such, they may be overlooking many other things of greater importance. Schroeder says that 40 per cent. of tuberculous cattle give cff the germs of the disease in their fæces. Investigations by the authorities at Washington have warranted the assertion that the excreta is the most dangerous of all sources, which might spread tuberculosis. Might there not be danger of sweeping excreta, tramped there by the boots of the attendant, into the mangers of healthy stock?

As yet, the Government has not been able to satisfy itself on a policy to be followed in dealing with tuberculosis in the herds of this ccuntry. The struggle against this disease must largely be individual. Some breeders in the States and quite a sprinkling of stockmen in Canada have undertaken to have their herds tuberculosis free and to offer stock for sale guaranteed to be non-reactors to the tuberculin test. The Bang system offers the most acceptable means of ridding herds of tuberculosis but if this is to become general, the Government will have to help. Unless a

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workable s Professor I ers do abou they ought by practising this system. It would umns of Farm and Dairy are open the labor question is such as to block important question. him in the enterprise.

But notwithstanding these facts, it must be fully realized that the struggle for the most part must ever be largely individual. Much can be accomplished by taking ordinary precautions, and by supplying abundance of fresh air and sunshine. These latter should receive every attention. They cost little to supply and need to be supplied freely.

OUR CANADIAN WINTER FAIRS

Fortunately the winter fairs as we know them in Canada are free from the adverse criticism, as to the management or mismanagement, which applies so generally to fall fairs. The winter fairs provide a real education. A farmer may attend one of them and profit greatly thereby. The prize list and the educational features are of direct benefit, there being not a portion of the time cr of the prize money given to features of so little benefit as the race horse, which of late years has characterized the fall fairs throughout Canada.

The winter fairs are worthy of the most ardent support. A day or days spent at one of these can be made of great profit. The farmers of this country in the way they have patronized the winter fairs in previous years show that they appreciate them and there is every probability that the winter fairs this season will go down into history as being the best yet.

PRICE QUOTATIONS FOR HOGS

The old problem of how to improve the Canadian hog market is approached by Professor Day in his article on page three from a different angle. His suggestions appear to be workable.

For years there has been much talk to the effect that packers should discriminate in the prices they pay for the various classes of hogs. Discriminaticn has not been possible heretofore because there has been no discrimination in quotations offered for the various classes of swine. There can be no paying discriminatingly if there is no discriminaton in the prices quoted. There can be discrimination in prices quoted, and, if those who buy the hogs still will it, they need not pay discriminatingly.

The point of the matter as we see it is that if one grade of hogs is worth more to the packers than another, the farmers should know it even if there be no difference in the price paid. Now that local markets have become a greater factor in the bacon trade than the English export market, there is perhaps not the same difference in the value of the various grades of hogs to the packer, the one teing worth about as much as the other, although even in Canada the market shows a growing preference for the leaner bacon rather than for pork of the fat heavy type.

At any rate what may prove a workable suggestion is advanced by Professor Day. What will the pack-ers do about it? What do yeu think they ought to do about it? The col-the farmer down and not up.

ruin him. Extra help is needed and for a full and free discussion of this

THE PROTECTION OF SHEEP

The revised Act for The Protection of Sheep and Taxes on Dogs will be discussed on Wednesday afternoon next week at the Winter Fair, Guelph. Semething has been dead wrong with the sheep industry for some years back and in this connection the great decline in the number of sheep on Ontario farms has been attributed most generally to the real nuisance caused by dogs. Heretofore municipalities have had the privilege of collecting or not collecting the dog tax. This privilege is to be taken away this coming year and all municipalities must tax dogs and the tax will be much higher than formerly.

Provision was made under the old Act for a tax on dogs, and out of the money collected in this way, twothirds of the value of any sheep killed by dogs was to be paid. In the case of those municipalities, which did not collect the tax and there were sheep killed by dogs, an awkward situation arose. The law stated that sheep killed by dogs were to be paid for to the extent of two-thirds of their value, but in case a municipality had not collected the tax what was to be done? Where was the money to come from to pay for sheep?

It will be welcome news to sheep men and those who would keep sheep but for the dogs, to learn that their grievance is about to be alleviated to some extent.

The awakening interest in good seed and the demand that has sprung up in recent years for Interest in seed of best quality of Good Seed the various farm crops have made the produc-

tion of these a remunerative line of farming to those who are so fortunately situated as to be able to grow them. Clean fields are an essential at the outset. Then if one has an appreciation of the possibilities for improvement that lie in plants of the various farm crops, if he studies the situation, and ultimately places reliable seed upon the market, that man is sure of reward. There is room for many more to enter into the work of producing high class seed.

A Strange Argument

(Hoard's Dairyman)
One of the steek arguments in favor of dual-purpose cattle is that they are better fitted for the service of the average farmer. Some go as far as to say that such cattle are best for farmers who do not know enough to handle dairy bred cattle as they ought to be handled. Now that is not an argu-ment in favor of the cattle but rather ment in favor of the cattle but rather it is an argument in favor of ignor-ance. It is the same as saying that a peor, unfit tool is the Lest for an ignorant man. Will such a tool ever lead him out of his ignorance? No. Nor will unfit cattle ever lead the average farmer to be anything more the average farmer. than average.

There is an education that co from associating with good cattle, that are most prefitable to their pur-



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FARM AND DAIRY PETERBORO, ONT.

****************** Cheese Department

Cheese Department

Makers are in vited is send contributions to this department, to ask questions on matter spatiants, to ask questions and assuggest subjects for discumsking and assuggest subjects for discussions of the choose Maker's Department, matters relating to the esemaking and suggest subjects for discussion. Address letters to The Cheese Maker's Department.

Notes from New Zealand

"We are just commencing our dairy season. So far weather cenditions have been only fair. We have had the usual rough weather pertaining to this time of year, the Equinox. The ground has become fairly dry and although rain has fallen, it has not been sufficient for the country's demands if Wellington's supply be a criterion."

Notes from New Zealand
J. A. Ruddick, Dairy Commissioner,
Ottawa
The following extracts from a letter
which I have just received from Mr.
W. M. Singleton, Assitant Director
of the Dairy Produce Division in
New Zealand, is of interest to Farm
and Dairy readers.

rade butter durin; he woster al. Juntil las September, some to last October, and some are now considering the advisability of continuing butter throughout the season. A few of last the season of the coade butter during he wester as

use direct steam.

"The heating of skim milk has thus far been done by means of the pasteurizer. This does very good werk

"The heating of the cream to pas-teurizing temperature has made no little improvement in the average quality of our butter. All butter duality of our butter. All butter factories in Taranaki save two are following the principle. The New Zealand Dairy Association in Auck-land prevince is about to adopt the land prevince is about to adopt the system. This company is making ar-rangements to absorb their rival company, Ambury and English and the resultant company would do cred-it to even the United States so far as hugeness is concerned. When Mr. Spragg speaks now, it will be with no little prestige.

no little prestige.
"Our cow testing work is going
apace. We have four associations in
which are entered some 4,500 cows."

Method of Issuing Certificates

Editor, Farm and Dairy,—In ac-cordance with an Act passed at the last session of the Ontario Legisla-ture, the Department of Agriculture is preparing to grant certificates to cheese and butter makers, good from January 1, 1911. You are already cheese and butter makers, good from January 1, 1911. You are already familiar with the provisions of this Act, which provides for the granting of certificates by the two Dairy Schools and by the Minister of Agriculture.

All persons who have been chief All persons who have been chief makers during the past season, and who do not hold a diploma from one of the Provincial Dairy Schools, will be granted certificates by the Mini-ster of Agriculture. Diplemas ornanted by either of the Provincial Dairy Schools will entitle the holder to continue as a shift maker. Co. to continue as a chief maker. Cer-tificates will, however, be granted to such persons, if they so desire, on condition that they make application to the Dairy School concerned. In granting certificates to those who have not shown a thorough mastery the business, the certificate will issued for one season only

Assistants who have not had entire charge of a factory or creamery, but wish to be employed as such in 1911, should make upplication to the Director of Dairyna. Department of Agriculture, Torsto, when their qualifications will be appreciated into and certificates duy faranced if favorably reported upon by the Advisory Board.

Any chief maker who has not been in charge of a cheese factory or Assistants who have not had en-

Any chief maker who has not been in charge of a cheese factory or incharge of a cheese factory or creamery for the past one or more seasons should write to the Director of Dairying, Teronto, for a form of application, if he wishes to secure a certificate. When such application form has been duly filled out and returned to the Department, the qualification of the applicant will he considered by the Advisory Board, and certificates granted. Letters and forms of application

certificates granted.

Letters and forms of application
are being sent only te those persons
who have been chief makers in factories and creameries during the
manufacturing season of 1910. Such
persons will please fill out the form
of application furnished, and return
of application furnished, and return
of the the Director of Directors of Directors. it to the Director of Dairying, when

certificates will be granted. He will certificates will be granted. He will also please inform assistants who are desirous of securing a certificate fer the season of 1911, to apply to the Department for a special form to be filled out by each person before his application for certificate will be considered by the Advisory Board. While we cannot make definite an-

nouncements at this time regarding the granting of certificates after 1911, we do not hesitate to state that those who take advantage of a Dairy School training will have their claims for a certificate much strengthened. It is desired that makers send in application forms for certificates at an early date, so that the Advisory Board may censider the same and grant certificates promptly, before the beginning of the year. The Advisory Board met in Toronto last week to consider the applications which have been received. The certificates will be issued some time nouncements at this time regarding certificates will be issued some time during December.—Geo. A. Putnam, Director of Dairying, Toronto.

About Certificates.—"What do you think about certificates for makers asked an editor of Farm and Lary of Mr. Henry H. Rennie, the competent cheese maker at the Inkerman Cheese factory, Dundas Co., Ont. Mr. Rennie has gained his knowledge of cheese making and has acquired the art from practical work in factories for the past 14 years. He replied, "I think they are all right. I do not know whether or not I shall get my certificate, but I guess there will be a job for me somewhere, if it is nothing else than tending fires. It is only right that makers who know their pushesses how the programme that the state of the competition of the state of the competition of the competition. About Certificates.-"What do you business should be protected. At present there is not enough money in cheese making and makers are not

The cost of installing my whey but-ter plant was about \$700. This in-cludes everything such as separator, cit dos everything such as separator, churn, butter worker, tank, pipes, ejector and fittings. The plant is giving perfect satisfaction, and is a profitable adjunct to the cheese fac-tory.—R. H. Little, Peterloro Co.,

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

ONE THOUSAND printed Butter Wrappers for One Dollar.—McMullen Printing Com-pany, London, Ont.

FOR SALE—Iron Pipe, Pulleys, Belting, Rails, Ohain, Wire Fencing, Iron Posts, etc., all sizes, very cheap. Send for list, stating what you want. The Imperial Waste and Metal Oo., Queen Street, Montreal.

CALVES RAISE THEM WITHOUT MILK Steele, Briggs Seed Co., Ltd., Toronto, Ont.

Do you know that Purity Salt will create a market for all the butter you can produce.

That it will also increase the price from one to two and a half cents per pound and make the buyer want more.

Does this extra profit look good to you? If it does, we will show you how. Write to-day tor trial samples and prices of

PURITY

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

Well Worth While looking into our line of **Straw and Corn Cutters** They are strong, easy running and handy to operate. Large and small styles. Latest improvements.

The Peter Hamilton Co., Limited

Peterborough

Ontario

It is profitable to convert small or large amounts of skim-milk into dry Casein Write for our proposition and state amount of milk you have daily in flush seaons

The Casein Mfg. Co.

DAIRY FARM COMPETITION

British Columbia Dairymen's Association

will be continued for the second year, running from the

1st of January to 31st December, 1911

The prize awarded is a CHALLENGE CUP, donated by the Provincial Government to the Dairymen's Association.

The Cup must be won three times before becoming the absolute property of the competitor. the competitor.

Each year a gold, silver and bronze medal will be given to the three high it scoring competitors in the competition for that year.

Entries for second year's competition close January 1, 1911.

Competitors before entering competition must be duly only of the B. C. Dairymen's Association, which membership may be obtained on the payment of \$1.00 to the Secretary-Treasurer. For further particulars apply to:

Sec.-Treas., B. C. Dairymen's Association Dept. of Agriculture, Victoria, B. C.

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several orders, in one brother tomers e butter. a nct use will hav time I c Canadia head as where i

> Fra "It is will thin little de Eastern ersation Dairy remy patr 35 per whole me cent. cre month. each mo what he This pa

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Suppos of 40 per 200 lbs. c week. T give a f 30 per co 90 lbs. f is 80 lbs other pa of 40 per per cent. get credi while he ×40) + 20 taken in cream in

have been With o testing 4 20 per cer sample w cent. which = 80 lbs. the avera 33.33 per

> There a taking an Wisconsin number of lbs. of cr cream of e Renfrew easier. to the bo

have rece

Greamery Department
Butter makers are invited to sand contributions to this department, to ask custions on matters relating to butter ask of
and to suggest subjects for discussion,
Address letters to Creamery Department.

and to suggest subjects to dear the Address letters to Creamery Department.

Canadian Butter Only Third Editor, Farm and Dairy,—When on a visit to England this autumn, I stayed with a brother, I stayed with a brother vision dealer, I asked for his price of the pri orotage informed me that his cus-tomers could easily detect the differ-cince between Swedish and Danish Lutter. I am sorry to say he does and use Canadian, as his customers will have nothing but the best. Next have all around there I hope that Canadiaal around there those that Canadiaal structure will stand at the bend as butterer will stand at the Canadian butter will stand at head as butter cf quality instead where it is to-day.—Thomas Petress, Jacques Cartier Co., Que.

Fraud Amongst Patrons

"It is wonderful what some patrons will think of in their endeavors to get a little more for their cream than they deserve," said a prominent Eastern Ontario creamery man in con-Eastern Ontario creamery man in conversation with an editor of Farm and Dairy recently. "Only lately one of my patrons who had been editivering 35 per cent. cream throughout the whele month delivered a thin 20 per cent. cream on the last day of the month. As we take equal samplest each morning he expected to give the control of the co however and gave him credit what he had actually brought in'

what he had accusing prought in This patron was doing intentionally what many patrons are deing unintentionally all the time. If the composite test is to be a fair method of deciding the amount of fat delivered at the creamery the test must be uni-form for each delivery; otherwise the sample taken should be in proportion to the weight of the cream delivered.

AN EXAMPLE
Suppose a patron delivers 100 lbs Suppose a patron delivers 100 lbs. of 40 per cerain one week and 200 lbs. of 20 per cerain one week and 200 lbs. of 20 per cerain one week and 200 lbs. of 20 per cerain of 30 per would give a fat reading of 30 per would give a fat reading of 30 per cerain of 30 have been as follows:
With one-third of the first sample

testing 40 per cent. and two-thirds 20 per cent. the test of the composite

20 per cent. the test of the composite sample would have been 26.66 per cont. which would mean 300 × 26.66 – 90 lbs. of fat. In the second case the average test would have been 33.33 per cent. and the patron would have received credit for 100 lbs. fat. There are two methods in use for taking an aliquot test. The gradu-ated cylinder is recommended by the Wisconsin dairy school. A certain number of c.e's is taken for every 100 lbs. of cream delivered. Where the gream of each patron is celtyered sepream of each patron is delivered separately the method adopted by the Renfraw Creamery is quicker and easier. A glass tube is run down to the bottom of the cream in the

Creamery Department tained in this way which is in exact proportion to the amount of cream proportion to the amount of cream delivered. If the cream its very thick tributions this department, oak questions on matter relating to butter making the tube somewhat.

the tube somewhat.
When we have scales and some means of taking aliquot samples in every creamery we will be in a position to claim that we are paying each patron for exactly what he delivers.

The Canadian Hog Market

(Continued from page 3). There are several interesting things about these quotations. It will be noted that on February 16 and May 18 the difference between the price of prime and good heavy hogs is only 10 to 15 cents a cwt; whereas, in August and Octcher the variation was more marked, running as high as 50 cents.

cents. In February and May, butcher's In represent and May, butterer's hogs ran practically the same in price as prime heavy hogs, but in August and October the butcher's hogs were slightly higher in price than the prime heavy heavy.

heavy hogs.

In February, heavy packing hogs were 10 cents lower than prime heavy

were 10 cents lower than prime heavy hogs. In May these cleans were practically equal in price. In Congust, the heavy packing were 30 in Congust, the heavy packing were 30 cents of the congust of the c

For some reason, stags commanded a very high price in February and May, but it must be remembered that stags are docked 80 pounds of their

high price in February, but dropped nearly \$2.00 in May, August and Oc-

A study of this table is instructive. It shows that the demands of the market are bound to show in the prices paid for different classes. In prices paid for different classes. In one month, a certain class may com-mand a premium. In another menth it may be at a discount. It shows, also, that the best classes of hogs, namely, the prime heavy, the Lutte-er's, and the selected bacons, generally receive recognition.

namely, the prime heavy, the butchnamely, the selected bacons, generally
receive recognition.

Chicago market reports are in very
marked contrast to our own. In
Ontario apparently all pigs lock alike
to the buyer. In Chicago they are
classified and the experienced seller
should have a pretty clear idea as to
just how his pigs will be graded when
they reach the market.

It would be too much to assume
that the American farmer is perfectly
satisfied and happy under the grading of hogs in Chicago market. In
receiving at the hands of the packreceiving at the hands of the packways be the probability this will always be the companing quite
seriously regarding the treatment he
are considered to the control of the
ways be the control of the control
ways be the

sort of classification is established in our market root, the influence of such a classification, the influence of such a classification, the influence of create confidence in the billion of the such as the classification, to stimulate production than all the talking which either packer, farmer, or others can accomplish.

It may be that such classification, desirable though it is, is impossible, but many things have been accomplished of late which were at one time regarded as impossible, and those where control markets will do well to look very carefully into this subject and see whether something cannot be done to give us a market classificastage docked 80 pounds of their done to give us a market classification to give us a market classification of hogs. The present method (or ceived by the seller does not correspond with the market report. For market is doing mere than any other some reason, also, boars commanded a one thing to create a lack of confis

dence in the business on the part of the farmer.

Every Canadian Farmer Wants The World's Best CREAM SEPARATOR

Sharples Dairy Tubular Cream Separators

ARE GUARANTEED FOREVER by the oldest separator concern on this continent and the largest in the world. The manufacture of Tubulars is one of Canada's leading industries.



THE SHARPLES SEPARATOR CO., WINNIPES, MAI

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER WANTED-Married man and woman to do general work on farm. Pretestant pre-ferred. Duties to commence at once. Ap-ply with references, stating wages, etc., to Box X., Farm and Dairy, Peterboro, Ont.

IHC Cream Harvester Advantages Close Skimming - Lifetime Service - Quality Cream Easy Turning - Easy Cleaning - Complete Line

LMOST any cream separator will skim fairly clean when new. It is the test of time that is the proof of a separator's value. It is the years of service that count. Be sure that the separator you buy is built to work satisfactorily for a lifetime.

If you investigate, you will find that I H C Cream Harvesters are the only separators with dust-proof and milk-proof gears, which are at the same time easily accessible. You will see that the name of an I H C Cream Harvester is entirely

protected from wear by phosphor bronze bushings at all points; that the I H C has large shafts, bushings, and bearings; that it has a perfect oiling system: that the

flexible top-bearing of I H C Cream Harvesters is the strongest and most effective found in any separator; it has only one spring. That's why I H C Cream Harvesters are always steady and run without vibration, no matter how unevenly the power is applied. And you will also

note that I H C Cream Harvesters are equipped with a patented dirt-arrester which removes the finest particles of dirt from the milk before the milk is separated. You will see that the crank is placed at the right height for easy turning, and the tank is at an easy height to fill.

There are many other advantages of IHC Cream Harvesters. See the IHC local dealer and let him point them out to you. Let him show you the different IHC styles and sizes so you can select just the machine to meet your requirements. The Bluebell is a gent when the your requirements, and firther machine to meet your requirements. The Bluebell is a gent when the Justice of the style is made in consistent of the style in the style is made in capacity. Get catalogues and all facts from the IHC local dealer, or, write nearest branch house.

I H C Service Bureau

What is it? A clearing house of What does it do? Helps farmers

what does it do? Helps farmers to help themselvessed? By sending your farm problems and puzzling questions to the Bureau.

We are co operating with the high-suggredural authorities and every early considered to the suggredural authorities and every early the suggredural authorities and every early leading to the suggredural authorities and early leading to the suggredural suggredural to the suggredural suggredural to the suggre



CANADIAN BRANCHES—International Harvester Company of America at Brandon, Calgary, Edmo Hamilton, London, Montreal, Ottawa, Region, Saskatoou, St. John, Winnipeg, Torkton. INTERNATIONAL HARVESTER COMPANY OF AMERICA CHICAGO USA



TITHAT do we live for, if it is not to make life less difficult for each other? -George Eliot

"In That New World"

BY ZONA GALE

In the intervals of painting the front fence Mark stepped back to look at his handiwork, and his eyes wandered to the town pump at the corner, from where folk with pails cocorner, from where folk with pails cc-casionally saluted him. A good loca-tion for his house, so near the pump, he was wont to say, and of late he had said it very often. A good fence, a good walk, a fine little house he owned he thought now, and life was altogether comfortable for Mattie and him. Of late he had found himself rather insisting that his sister Mattie and he were altogether comfortable.

"Mattie!" he called now, "come out see my fence.

Mattie, in dark blue calico, was polishing a front window—good old Mattie, whose mornings were devoted to doing housework quite furiously, and whose afternoons were given to paint-ing china sedately and without fury, and whose forties were not wholly fascinating. At his summons, Mattie did not miss a stroke on the shining window

'Can't," she answered. "Bertha'll be here now before this house is fit to live in.

Mark frowned not so much at Mattie's refusal-he was used to Mattie's passion for renunciation—as at the thought of Bertha. That is, Bertha and the child. She had been a village girl, a lifelong friend, now a decade married and coming to Mattie for a first visit

"How old did you say the boy is?"

he inquired. said Mattie, "an' curls. "Five, said Mattle, "an curis. Bertha says I'll want to paint a pic-ture of him," she added, polishing. Perhaps she was pretending that her strckes painted the spring picture

without. will. But you can't paint like I can aint. This here fence is a dream." Mattie had hardly moved on to a side window when Mark, stepping back the better to observe his fence,

received from the tail of his eye a distinctly grateful sensation of blue. Something blue was approaching the town pump. Not dark blue like Mattie's calico, but pale blue, like the sky of the spring. Mark's look made sure. Then he set his paint-pail on a post and strode to the town pump.

Lydia did not see him—or did she

so? But she cannot have seen him, because the lilacs nodding over the fence behind the open, flagged town-pump corner were holding her attenpump corner were helding her attention. The pale blue which, like an individual cequette, had signaled to Mark was the merest gingham, but somehow it ruffled over the slim shoulders like a way of encouragement. Of the meajings of these things Mark knew little, but his heart beat somewhat and this, he thought. Why good-morning, Lyddy," he said, and when his hat was cff his face was almost toyish, and now the lines of his thirties were smilling lines.

"Why, good morning, Mark," said Lydia, but her smile was rather at the lilacs. She pursued the mo-ment, however—and that is the prerogative and charm of a weman seem to pursue, not the man, but the moment. "Where are you going? she asked in magnificent indifference.

"Oh," said Mark with his masterly air of the casual, "I come by for a drink."

Pump me one," Queen Lydia commanded

manded.
Slave Mark bent his back to the pump-handle, and Lydia held the cup. And to hold the cup she must needs stoop a little and lest the pale blue gingham slip never so little, she must needs lift the hem. And someway, though the crops were had and the though the crops were bad and the mortgage imminent, though she made her own gowns and those re-turned. Lydia had pretty shoes. Or was it that her feet would have made any

"Look out!" Lydia commanded. softly enough though. "You're splashing it over."
"Sc I am," said Mark remorsefully,



Do you Recognize Them? Some of our Home Club taking a trip on the Maid of the Mist at Niagara Falls on their recent

and he-and perhaps Lydia-did not and he-and perhaps Lydia-did not realize how charmingly absurd it was to empty the cup entirely, merely be-cause it had previously been filled over the brim.

So Lydia held the cup again. And her wrist was round and brown, and the pale blue gingham slewe was well as the pale blue gingham slewer was well and down at the little had and—""Lyddy"—"be said. She lifted her eyes. And as they met his, the water overflowed on the

met his, the water overflowed on the brown wrist and hand and splashed to her elbew.

Lydia with "If only in his fine little whole machinery of his fine little house and of his life—so wholly comfortable with Mattie—seemed to rise fortable with Mattie—seemed to rise like a wall between them. To be sure, it was not true of other men; but then, he reflected always, Mattie was different.

"I want a drink o' water," said

semebody distinctly. He was suddenly He was suddenly standing almost between them, a little boy of five with curls and a plaid skirt, and other fascinations of babyhood. He was looking expectantly at Lydia, as if he understood that it is the women of this world who administration. this world who administer its drinks of water

"Why, you little thing!" said Lydia and stepped for the cup. "Pump, Mark," she command-ed, not taking her eyes from ed, not taking her eyes from the small, grave face. And this time the cup, at the first try-ing, was decorously filled, and Lydia held it while the child drank deeply.

When he had finished, Lydia dropped the cup again and caught up the child in her strong, capable arms and looked in his face.

What baby are you?" she demanded gently.
"I nice baby," he replied

"I nice baby," he replied soberly, staring up unwinkly.
"Yes, but whose baby?" she laughed.

'I our baby,'' he answered politely. "Dewn. Down. Now down.
She set him down and looked at
Mark with all her tenderness for the child still in her eyes and, too, some-

thing of shyness.
"The little thing!" said Mark fatuously.

They stood momentarily looking after the child, who, they saw, ran to join a lady in a brown dress, walking slowly on the other side of the

street.
"Goodness, he's cute," said Lydia.
"My, I must hurry up. Who's going to pump my pitcher, I wonder?"
Mark filled the pitcher and walked with Lydia the half block to her

gate. For two years now Mark had been walking half blocks with Lydia, or home from had been walking name from with Lydia, or home from church on choir practice, or down-town. And for two years the thought of her had come to the thought of her had come to of the sense of his sister Mattie and of his burdening consciousness of responsibility to her.
And yet there were times as And yet there were when, at the gate, Lydia moved

away with: "Well, I must be cooking

Mark lingered a little on that Lydia cooking dinner! But then, he thought remorse-fully, what good dinners Mattie cocked. Nobody was a better than Mattie.

cook than Mattie.

"I must be getting back to my dinner, too," he said awkardly. "Well good-by, Lyddy."

"Good-by," said Lydia, quite absently, and went in the house without looking back, and ran in the parlor and watched Mark far up the street. Her face had grown a little tired, and its archness and cocustry. tired, and its archness and coquetry were no longer there.

And on his return Mark found that his joy in fence painting was abated. Deciding to paint no more that morning, he swung the pail from the fence-post and all but overran a little figure sitting squat on the walk on the gate's other side. It was a child of about five years with curls and a plaid

"Why, Little Thing!" Mark cried "Why, Little Thing!" Mark cried in recognition. And then he heard voices at the door, and there on the porch were Mattie and the lady in brown whom the child had run from the pump to join. And she, he saw, would be their guest, Bertha.

He was genuinely glad to see her leading to the latter of the pump to join. The pump to join. And she, he saw, would be their guest, Bertha.

He was genuinely glad to see her latter of the pump to join. The pump to join the joi

Lydia with "if only" in his heart, the now that she stood before him-whole machinery of his fine little grown matronly and at ease and with a new prettiness. He had always liked Bertha, and his heart warmed still further to the child, for her sake. Also, the child had followed him from the gate close at his heels, and now stood beside him as man with man. But when Mark, touching awkwardly anding almost at the child's curls, would have option of five with and other fast that the control of the was looked. He was looked that the control of the was looked that the control of the was looked that the was looked that

I ain't seen Bertha for



Part of our "Home Club" just after Dinner Photo taken at Niagara Falls on the recentrip given The Home Club by Farm and Dairy

years, an' I declare if you shall get first say. I want to ask her sixty things hands runnin' an' you put me all out. You're as bad as the things hands runnin' an' you put me all out. You're as bud as the boy, an' we'd just got rid o' him. I tell you what, Mark," said Mattie, "just you go down to the store an' see if you can't find us some first-class butter for our dinner, an' take the child with you. Then Bertha an' I can get some chance at it." Mark looked from his sister to the child.

"He-he wouldn't go with me," he

returned uncertainty.

"I will go cff wif you," observed
the child placidly; "I likes mens."

"There now," said Mattie, "run "I will go ell wif you," observed the child placidly: "I likes mens." "There now," said Mattie, "run along, both of you, and see that you get dairy butter whatever you do. Come back in, Bertha." So Bertha laughed and followed

her within doors and Mark was left with the child. And immediately the with the child. And immediately the little boy put up his hand to Mark's and gripped two cf his big fingers.

"Go down-town now," he proposed

gently, but with finality.

Mark moved toward the gate, looking down at the little figure trotting confidently at his side. Without his

knowing it, it was the child's confiding that touched him mest.
"Let me opic gate," the child commanded.

manded.

Obediently Mark lifted him until he could touch the latch. And someway, this baby will exerted over Mark gave him a sudden and prodigious pleasure, or was it the pleasure of lifting the child by his slight little shoulders?

The two set off together down the long street of the village, nearly empty in the half-heur preceding noon, when everybody dined. Under the brick walk the roots of the great overarching maples had pressed their overarching maples had pressed their thick roots, heaving up the bricks and making uneven walking for little feet. Now and then the child stum-bled and tightened his clasp or Mark's finger, and every time he did that Mark looked down at him and heard himself saying things that sounded curiously to his cwn ears, as:

sounced curiously to his cwn ears, as:
"'Hi, there, little old man! Hittle old vin! Must stand tight on its feet, mustn't it? No slips, now. Up you come! Mind, this time he's up to stay!"

Dece

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keted, as for the should b ularly ai It may

The Storeroom in the Home

The Storeroom in the Home
The storeroom in the Home
The storeroom for food may be the
tiny closet of the flat dweller in a city
or the cellar of the village or or ma
house. In the last case it often age
commercial as well as a household
value, since it keeps fruits and vegeetables in good condition until marketed, as well as until they are needed
for the home table. In any case, it
should be cool, dry, clean, and regularly aired.

opposite conditions.

Such a cellar may be dug in wet ground, without sufficient drainage of the subsoil; it may even be in con-tact with open sewers or drains, which house. In the last case it often as a commercial as well as incushed value, since it keeps fruit household value, since it keeps fruit household have been proved in certain cases to entables in good condition until magnetables in good condition until magnetables are described in good condition until magnetables. In many cases the contain specific organisms capable of any fruit and organisms the cert wall is first additionable cool, dry, clean, and regularly aired.

It may be well to describe a cellar that is badly built and carelessly kept, that is badly built and carelessly kept, that is badly built and carelessly kept, but any case in the contains the case what should be exactly a count that the windows are inade-the family living above.

quate for lighting and ventilation.

It may have an earthen floor, or one of badly matched boards impossible to keep clean. It will probably have a musty smell, proof positive that mold plants are there and ready to attack any fruit and vegetables stored on its shelf-we er in its dirty bins.

Profitable Work for Women

A. Corbett, Cumberland Co. J. A. Corbett, Cumberland Go., N.S. Bee keeping is something that any farmer's wife or daughter can indulge in with profit and pleasure provided they have a love for Nature. It will not take all of one's time either to look after the bees. I have demon-strated this fact in my own experience for each summer I, make about a tree. for each summer L make about a ton of butter besides doing the house work on a large farm having only the belp

Renew your subscription now.

CHARACTER & REPUTATION

is the high character of Gourlay lanos as they are at present built that make a superscript of the property of

There is

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Scientifically and carefully planned after years of study and experiment, Gourlay Planos atand in tune much better than ordinary planos. The Gourlay non-varying end-wood of construction system of construction provides a bearing from the tuning-pin right to the iron plate that is non-varying, section-al end wood.

CHARM

Occasionally you hear a plane with a tone possessing a rare "singing" plano with a tone posses ing a rare "singing quality, so rich and full and withal so sweet that you are at once interest-ed in the make. It is this sharm of tane in the Grays. charm of tone in the Gourlay Plano that has evoked enthusiastic commendation from music-loy-ers everywhere throughout Canada.

TONE DURABILITY

That Gourlay Planes have an enduring tone which does not become "tinny" has been demon-"tlny" has been demonstrated after severe tests.
This tone durability is secured through an exact knowledge of what to use, how and where to use it, and a vigilant supervision over every smallest detail during construction



are all of one quality-the best. If we took a commission to build a piano for \$1,000 it could be of no better material or workmanship than we regularly use in any one of our simpler, more moderately-priced styles. We could spend more money on ornamentation, but nothing to improve quality.

Gourlay Pianos are to be found in prominent homes in practically every city and town in Canada. The most musical person in your coterie of friends is probably a Gourlay

Booklet Number 6 tells the names of over 2,500 homes where Gourlay Pianos are used. If you contemplate the purchase of a piano this booklet should interest you. Write for it.

EVERY DOLLAR

invested in a Gourlay piano brings the largest possible dollar's worth in return. Gourlay Pianos may cost more than some others, but they are more than worth the difference.

The price is as low as the high quality of the pi-ano will allow. Their re-putation adds nothing to their cost, and even an additional expenditure of money would no improve their charwould not acter.

TOUCH

To musicians the touch of a plano is a very im-portant consideration. I Gourlay Planos, the genius of the builder is demonstrated in what you might almost call individuality, personality in the touchdirect appeal to players with real musical the

GOURLAY, WINTER & LEEMING

188 YONGE STREET TORONTO

4,000 PIANO3

Nearly 4,000 Gourlay Planos Renewall of the provided that the prov

ARTISTIC DESIGNS

The beauty and refined appearance of our present models sustain our reputation for leadership in artistic case work, while the richly-figured veneers us-ed are unexcelled and add o our reputation as connoisseurs of rare voods.

SECOND DAY'S SESSION OF RECENT WOMEN'S INSTITUTE CONVENTION Carolina, who spoke on the subject of "Children." Mrs. Hollewell has a

Addresses from several Institute delegates were given on the subject of "The Place of the Girls in the Institute." These delegates told how their Institutes interested the girls in nearly each case, by giving them a prominent part in the program at the meetings. One Institute required its girl members to furnish all the music both vocal and instrumental. Another Institute had ecoking contest, the girl members being the only participants. Different contests were conducted, one being for breadmaking, another for cake making, otc. The results of the baking were brought to the meeting and Addresses from several Institute making, etc. The results of the bak-ing were brought to the meeting and placed on exhibition where they were judged by outside judges who did not know who had baked the different articles in question. In this way all chances for partiality or unfairness were eliminated.

were eliminated.

The address on Travelling Libraries
by Mr. W. R. Nursey of the Department of Education, Toronto, was most
interesting. Mr. Nursey stated that
the Travelling Library system first
originated in the State of New York, originated in the State of New York, in 1839. It started with a nucleus of 2,500 copies and to-day there are ever 400,000 volumes in circulation in this manner in the United States. He adserved the state of the st

come in," said Dr. MacMurchy, "and come in, said Dr. MacMureny, and inspect the work of the scholar. Let the teacher tell him of the stubborn ness and backwardness of the trouble pupils, and in an indirect the doctor can easily determine whether John or Mary are really stubborn

or whether they are nearly blind."
'I have seen," continued Dr. MacMurchy, "a girl in a ceream school
who was endowed with a good amount of brain matter, designated as most stubborn because she could not copy a lesson from a blackboard correctly. After three or four hard attempts on the part of the pupil, each one re-sulting in an almost utter failure, it was discovered the peor girl had scar-cely any sight in one eye, and the other eye very nearly as bad. When we realize that there are hundreds of children burdened with defective eyesight or a slight throat affection sight or a sight throat allection, which can be easily remedied with little trouble, it is safe to say that medical inspection of school children should be looked after by our women.

THE AFTERNOON SESSION

on the subject of securing and expending the funds of Instiexpending the runds of Insti-tutes. The questions were taken up by various members of dif-ferent Institutes, and the dif-ferent ways of securing and ex-pending the money of Institutes were as varied as there were Institutes represented.

One of the most original ways securing funds was that described by Mrs. Johnston of Aginceurt, whose Institute had secured a large fund by catering for a plowing match extending over a period of four days. Committees were appointed from this Institute, a dining tent was erected and each member of the Institute was

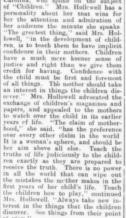
responsible for a certain part of the work. Over five hundred meals were served, and a large rewas realized. venue

venue was realized.

Another Institute has invested a certain part of its funds in buying silver forks, knives and spoons, which they rent at 10 cents a dozen te the local societies and churches in their locality, thus realizing a considerable sum. able sun

The Bloomfield Institute has been The Hoomheid Institute has been progressive enough to purchase a \$25 Vacuum Cleaner, which it rents by the day or hour to the housekeepers in that vicinity, for the purpose of cleaning. The fees charged are from \$1 a day, down to a half day, or a half hour. The cleaner has more than paid from itself thus propuring a profitable. for itself, thus proving a profitable investment.

The Burgessville Institute representative was one of the most enthusiastic speakers at the Convention. One could not but help being inspired at her earnestness of manner. Her Institute had set to work under considerable difficulty to procure a library for their town. Everyone predicted defeat, and the more energetic became the women. From a successbecame the women. From a successful garden party they secured \$81 in a town of less than 50 families. Their County Council gave them a grant of \$30: their Township Council, one of \$256 a shreeded wheat banquet gave them \$40. This Institute is in one of the smallest towns in ontario and realized \$132 net profit towards its library. The library was opened to the public on Saturday, November 19, and it is needless te say that the citizens in the vicinity of Burgessville will all hold in high esteem the Women's Institute of that section.



(To be continued) ...

of view

A Woman's Criticism By Mrs. McD., Peel Co., Ont.

By Mrs. McD., rect vo., Ont.

The one thing that impressed me
most en reading the special Household issue of Farm and Dairy published recently, was that it touched
every phase of farm life, and of woman's interest and difficulties. As 1
read that issue of Farm and Dairy,
1 thought what a help and a stime
and a wage it to global form. lus such a paper is to us busy house

The article by Mrs. Muldrew made The article by Mrs. Muldrew made me think of the Queen Annes of Society, who have their 'Ladies' Home Journal', and 'Gentlewoman's Magazine', and I thought the Mary Annes would enjoy a farmer's wife's magazine not dealing with afternoon teas and the latest size and shape of sleeves and dishpan hats, but to get before the state of the state o nearer to Nature and Nature's God nearer to mature and natures used, by studying things on the farm and all the creatures of interest there. Mrs. Muldrew's talk is excellent. She must be in close touch with farm life. Miss Laura Rose speaks with conviction. Farm life is just as varied and different as the streets of a creat

and different as the streets of a great

I would not always blame the men for not getting the labor saving devices for the home. Women are to content and too easy going in some et "B," Belleville, Ont.

ases, or they could have what they wanted. To be sure there are others who cannot get just everything they ought to have, but if they are wise and persovering they will win in the long run. ...

To bake pie crust the nice, delicate brown that is so much desired by all housewives, mix the dough with cold sweet milk instead of water and the result will be satisfactory. ...

Farm and Dairy Patterns give sat-



At Home with the

KODAK

Make Kodak your family historian Start the history on Christmas day, the day of home gathering, and let it keep for you an intimate pictorial history of the home and all who are in it. Make somebody happy with a Kodak this year-the pictures will serve to make many people happy in the years that

Unless you are already familiar with Kodakery, you will find the making of bone portraits much simpler than you imagine—so simple, indeed, that the nov-magine—so simple, indeed, that the nov-magine—so simple, indeed, the speed. To make the simple simple simple simple simple beautifully illustrated little book that atlaks about home portraiture in an un-derstandable way that will prove helpful have a Koisk or not we would like you to have a Koisk or not we would like you to have a Koisk or not we would like you to have a Koisk or not we would like you to have a Koisk or not we would like you to

Ask your dealer or write us for a free ppy of "At Home with the Kedak."

CANADIAN KODAK CO., Limited TORONTO. CANADA

The Belleville Business College

Has one thousand Graduates filling prominent positions. College open the whole year. Write for Catalogue D. The Belle-



The Falls at Niagara. A view taken by one of the members of The Home Club on their excur-

vocated only the very best books circulated by these mediums. The Tra-velling Library is a feature of rural improvements that has come to stay The demands upon his department for libraries are increasing rapidly. So popular has it become that calls have been made upon him for libraries for nearly every branch of work and education. Much information on this subject can be secured from the re-port of this subject which was pub-lished by the Department of Education last year.

MEDICAL INSPECTION OF SCHOOL

CHILDREN

A most enthusiastic reception was given Dr. Helen MacMurchy, gave a most able and entertaining address on the above subject. To hear Dr. Helen MacMurchy is a delight that no woman can pass by if she has ever had the opportunity of hearing this speaker once. Dr. Mac-Murchy is filled with enthusiasm of her subject and is a most fluent and interesting speaker. She drew attention to the fact that there should be medical inspection in rural schools well as in city schools. What was good for one was of equal good for the other She mentioned the three good for one was or equal good for the other. She mentioned the three principal diseases to which children are subject, those of the eye, the ear, and the throat and gave several il-lustrations where lack of medical in-spection had proved disastrous in many cases. Had such attention been given to pupils who had defects in the above organs, the tenor of their whole life would have been changed, whole fire would have been made and their lives would have been made of value to themselves and to the community. "Let the country doctor was Mrs. W. R. Hollowell of North



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The r through way to inspiring of Prof. pletes li We al explaini ones fro tress an are apt that onl over, th gone bef hereafter

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Resolved the founds and the fa represented having nation tha The opinion grant the Ontario we fairly the uplifting also to reco of every F mentary re

have recognized New Zeala fore, the m respectfully their repre

I go unto my Father .- St. John 14,

The realization that as we journey through this world we are but on our way to join "Our Father" gives an inspiring vision of life. In the words of Prof. Henry Drummond, "it explains life it sustains life, it complains life it sustains life. plains life, it sustains life, it com-pletes life."

pletes hre."
We all feel at times that life needs explaining. When death takes loved ones from us we cry out in our distress and question God's love. We tress and question God's love. We are apto question God's love. We are apto people until we remember that only or bed until we remember over, that our do four journey is over, that our do four journey is over, that our do four journey to go be done to the good of the control of the dollar of the control of the fer and the weather of the fer and the greater effort to walk uprightly so that we may join them when we go to be with 'Our Father.' 'Sooner or later we find out that life is not a holiday but a discipling and the holiday but a discipling the control of the contro is not a holiday but a discipline. Earlier or later we all discover that the world is not a playground. It is quite clear that God means it for a school."

"The discipline of life," Drummond "The discipline of life," Drummond says, "is a preparation for meeting the Father. When we arrive there to behold Have beauty, we must have the educated eye: and that must be trained here. We must become so pure in heart—and it needs much vactice—that we shall see God. That explains life—why God puts man in the crucible and makes him pure by fire."

The knowledge that we are but go The knowledge that we are but going to the Father sustains life. It helps us to realize "why we do not know why these strange things happen." It is because we are going to our Father. We are only going. We are not there yet. Therefore pare not there yet. Therefore patience. "What I do thou knowest was but they they have the work they want to be the part of the par

are not there yet. Therefore patience. "What I do thou knowes not now, but thou shalt knew. Hereafter, thou shalt knew." Thus we are assured that in God's good time the reasons for our earthly disciplinated that the state of t

******** OUR HOME CLUB

WOMAN SUFFRAGE

Resolved, "That whereas the home is the foundation of national greatness, and the family is at present not fully represented, the male head of the famrepresented, the male head of the family having no stronger voice in the nation than the unmarried man, it is the opinion of this Institute that to grant the franchise to the women of Ontario would be to represent more fairly the home as well as to increase the stable, conservative and morally uplifting vote of the province, and also to recognize the inalienable right of every British taxpayer to parliamentary representation.

of every British taxpayer to parlia-mentary representation.
"Moreover, other British colonies have recognized this, and found the results satisfactory, as in the case of New Zealand and Australia. There-fore, the members of this Institute do respectfully and earnestly request their representative, Mr. R. J. Mc-

The Upward Look

The Stane request to Sir James Whitney, leader of the government and Premier of Ontario."

The above resolution, passed by the

Premier of Ontario."

The above resolution, passed by the Forest Women's Institute, contains in a nutshell, as it were, the crux of this whole matter. As far as we can learn, it has worked advantageously in New Zealand and Australia. Why not try it in Outario and in fact, in the other

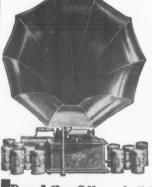
to the highest good of humanity, our to the highest good of humanity, our women hold advanced views. If given opportunity to exercise the franchise, political graft and corruption would have to go. Advanced legislation for the overthrow of the liquor traffic and immorality would gain a stronger support and finally in the near future be legislated out of existence.

We trust and pray Mr. Studholme's bill may carry.—"Father."

Zeaiand and Australia. Why not try it in Ontario and, in fact, in the other provinces as well?

On all moral questions, educative of interests and matters which pertain on the overindulgent with this boy.

do not give him to understand that be should receive pay for everything do not give him to understand that be should preceive pay for everything he does, or he will find himself coning short in after years. Teach him when he is small the value of money. When he wants a horse or anything of value let him work for it and help and encourage him to get what yeu think he should have. But do not been him with the impression, that he was the work has been always and the should have all his little should and can have all his little should and can have all his little should and the should have all his little should have the should have all his little and have all his little and



he Edisor

The latest style Edison Phonograph in our grand new outfit-this superb entertainer, Mr. Edison's latest, final improvement of phonograph-shipped

Yes, free. I don't ask a cent of your money-I don't want you to keep the phonograph-I just want to give it to you on a free loan-then you may return it at my own expense.

Read the Offer: I will ship you free this grand concert outfit, Fireside Model, with one dozen Gold Moulded and Amberol records. You do not have with one dozen Gold Moulded and Amberol records. You do not have to pay me a cent C. O. D. or sign any leases or mortgages. I want you to get this free outfit—the master-piece of Mr. Edison's skill—in your home. I want you to see and hear Mr. Edison's final and greatest improvement in phono-graphs. I want to convince you of its wonderful superiority. Give a free concert; give a free minstrel show, music, dances, the old fashloned hymns, grand opera, comic opera—all this I want you to hear free of charge—all in your own home—or this free ions offer.

MY REASON-My reason for this free loan offer, this extra liberal offer on the finest talking machine ever made-see below.

MR. EDISON Says: "I Want to see a Phonograph in Every American Home."

The phonograph is the result of years of experiment; it is Mr. Edison's pet and hobby. He realizes tally it a value as an entertainer and educator; for the whonorraph brims the pleasure of the city right which is a proper of the control of the city right who who was a contrainer. Now, the new Frestied Edison Phonograph of our grand outlit improved Moode, it the latellite form home. Now, the new Frestied Edison Phonograph of our grand outlit region and the should hear it: everybody must bear it. If you have only heard other talking machines before, you amount imagine what heaviful must you can get from our new outlit. This new machine is just contained in a latellite of the control of the

MY REASON I don't want you to buy It—I don't ask you to buy anything.

But I do feel that if I can send you this great phonograph and

convince you of its merits, of its absolute surperiority, you will be glat to lavity or any extension of the send to your house to let them hear the free concert. Then, perhaps, once more of your friends will

reconstruct the property of the glate the property of the glate to the glate to the property of the glate to the property of the glate to the property of the glate to the glate to



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383 Chrysa piec The flowers solid embro leaves in lor veins and la scrolls, outli scalloped ed

think that this world owes them a rich living with little work. It is easier for a boy to learn the value of money, than it would be if he had all desires granted him, as a boy, and when he becomes a man to find that he was expected to supply his own demands and had yet to learn the lesson cf. "How to do it."—"The Doctor's Wife."

THE MEANEST MAN

THE MEANEST MAN

Mr. E. W. Beach tells a story of
the meanest man he ever knew of, a
nearby farmer, when he was a boy,
down in Morris County, N.J..

This farmer had a son who had
werked faithfully for the father without pay of any kind beyond his simple
board and clothes until he became 21
years of ago. Then the young man
got married and rented a small place
of his own. He had a very hard time
getting started, without helo of any
kind frem his father. That he might
make a beginning with chickens he
succeeded in obtaining a setting of
eggs, but was without a ha to hatch
them. While his father happened to
be away his mother kindly loaned him
an old hen with a strong tendency to
do some setting.

You Can Do the Weekly Washing in Six Minutes

The 1900 GRAVITY WASHER cuts out bor and saves money. Does a big family ashing—and wringing loo—in short order, he Gravity washes a tubful spotiessly clean air minutes. Prove it at our expense.



Any Woman Can Have a 1900 GRAVITY WASHER On 30 Days Free Trial

Don't send one cent. Try it first at our expenseif you are responsible. We'll ay the freight. See performs. Thousands are in use and every user as a constantly receiving letter of a faithful constomers. The tign PRES Book to-day. Write Up. P. D. C. BACH. Manne.

personally F. D. C. BACH, Mana-The 1900 Washer Co., 357 Yonge St.,

ger, The 1900 Washer Co., 367 Yonge St. Toronto, Ontario.
This offer is not good in Toronto, Mon-treal Winnipeg or Vancouver, and sub-urbs, as we have branch offices in these places. Special ararngements are made in these districts.

When he brought the hen back a ccuple of months later his father charged him 50 cents for the mater-nal use of her.

nal use of her.

There are few fathers as mean as this one let us hone; but how many farmers (fathers) there are who might do much better for their sons by giving them as fair a start as circumstances will permit while they are young! Boys over 15 years of age at heme have needs—real needs, many of heme have needs—real needs, many of which are often not met. The father contents himself with building on the large estate he will leave his boys some day when he is dead and gone. It would be better by far to give most young men a start, the best possible or absolutely nothing at all, than to keep them building on such hores,— real, but nevertheless forlorn. Count-less Lovs there are who might get out and with very limited means far out-strip their sires in point of success in farming or in business.—"The Son."

A Home-made Fireless Cooker

Alice A. Ferguson, York Co., Ont. My latest device for labor saving

and also a fuel comomizer, is the fireless cooker, in the form of a hay box or paper box I have used the I have used the principle involved, viz.; that heat when not allowed to escape cooks— for a long time,— but culv this sum-ner have I really repared my cookng box.
My fireless cook-

Ing. box.

My fireless cooker is of crude

MISS A. FERGUSON, monufacture. I obtained a strong Ley

the inner dimensions being 15 x 12

inches. I packed hay very closely

to the deoth of about 3 inches,

weaving the hay around the corners and around the sides and ends

to a height of 7 or 8 inches. I then

placed the kettle I proposed using,

near the centre of the box, and wove

the hay around it, pressing very

tightly. I placed a thick piece of

brown paper for the bottom of the

space, and again placing the kettle,

twisted sheets of newspaper around

it, filling all the space between the

kettle and the sides of the box. Re
moving the kettle, I placed several

sheets of good paper around the ey
linder, making it neat. It was then

ready for business.

I use this box for cooking our per-

I use this box for cooking our per-ridge and as I make the porridge in the top part of a double toiler, I made the space in the box slightly at one side of the centre to give room for the saucepan handle. Inte this top part of the double boiler I put three handfuls of rolled oats, added salt, and sufficient boiling water, stirred slightly and set on top of the stove. When boiling, I gave it another stir, then removed it to the space in the fireless cooker, press-ing it firmly down. I tucked layers of newspapers well around the top, put several papers over the whole. put several papers over the whole, and a good feather cushion over all. and a good teather cushion over all.

As I make the porridge at tea time it has all night to cook. In the morning it is still warm, but requires to be re-heated, which I do by putting in the bottom part of the dcuble boiler with boiling water. It is perfectly and evenly cooked.

FOR COOKING SOUP
I use an enamelled kettle with straight sides, a movable handle, and

oil stove or gasoline stove, this is a great fuel saver, for fcods which re-quire long cooking.

I demonstrated my cooker at our Women's Institute and it was well re-

... Comfort in a Rural Home

Comfort in a Rural Home

A most modern country home is
shown in the illustration, the home of
Mrs: Geo. Johnson, Hastings Co.,
Ont. The house is a brick structure
with cement corner blocks, which imstrength. The main building garstrength. The main building garstrength. The main building garstrength. The main building garstrength. The main building garstrength building garstrength. The main building garstrength. The beautiful garstrength will be the inside. Although built twenty years ago, the
bouse is guite modern. It is 24 xabouse is guite modern. It is 24 xastrength will be gartended to the super floors. Adjoining
this is a 20 by 24 ft. wing attached
for use as kitchen and wood-shed,
partitioned of course. separating the
same from pantry. There is a cellar
under the whole house.



Modern Comforts in this Hastings Co., Ont., Home

a close fitting lid. I use this for cooking soup, and consider the soup unsurpassed for flavor. I prepare the materials for the soup as early as nine o'clock in the morning. These I bring to a boil on the stove, then pack it away snugly in my box. At noon I remove it, add milk, allow to boil up, and serve. It is delicious. Rice cocks perfectly, every grain separate, as there is no sticking and no stirring required, and it requires no fire and no supervision. a close fitting lid. I use this for cook-

FOR COOKING MEATS

Meats require a longer time if raw to begin with, but hash made and thickened and packed away till needed is a vast improvement on any other

the kitchen. Start your dinner after breakfast, pack it away in the fireless cooker, go off to market or te pick fruit, or whatever duty awaits, with the comfortable feeling that dinner needs no stirring as it will not stick, nor fuel as it needs no extra heat. till dinner time. For those who use gas, or coal-

We use a coal furnace, a Pandera We use a coal furnace, a Pandera range, alse a three-burner coal oil stove and a coal oil heater. We do not use all these at one time, but just as conditions of heat and cold may require. On the Pandora range we have a very simple contrivance located in the oven door. Pandora rango we have a very simple contrivance located in the oven door. It has the appearance of a eleck with hands to mark the heat of the oven for baking purposes. The housewife need not worry. for one glance at this thermometer tells her the heat of her oven. As te cost, it is included with range. I would recommend inspection of Pandora wan thermometer before buying. We have a large cistern, a marble sink and a cess nool. The whole house, cenar as well, is lighted by acetylene gas.

Mrs. Johnson takes great pride in her lawn and flowers. We have a well in the yard with abundance of water. It is hidden from the read by a rose-bush. I can tell you our pump handle is made to do good service during the sime such as the sum of the

When making juicy pies, to prevent the juice from coming through the crust and breaking open the edge of the pie, I make small paper pipes, and place them in the openings of upper crust, so steam will escape through. This will prevent the lower crust becoming water-soaked.

The Famous Rayo

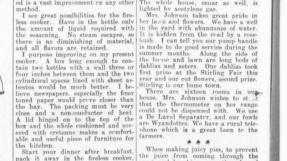
Is the Lamp of Real Beauty

because it gives the best light of all lamps. The Rayo gives a white, soft, mellow, diffused light-easy on the eye because it cannot flicker. You can use your eyes as long as you wish under the Rayo light without strain.

The Rayo Lamp is low-priced, and even though you pay \$5, \$10 or \$20 for other lamps, you may get more expensive decorations but you cannot get a better light than the low-priced Rayo gives. A strong, durable shade-holder holds the shade on firm and true. This season's new burner adds strength and appearance.

Once a Rayo User, Always One.

Dealers Everywhere. If not at yours, write for descriptive circular to the nearest agency of the The Queen City Oil Company



484 Design for Embroidering a Border or Band.

The border is one inch in width and five and a half yards are given.



493 Design suitable for Embroidering a Corset Cover with or without Front

For corset cover closing at the front omit



447 Design for Embroidering a Baby's Pillow in Heart Shape. The lettering, also the leaves and flower are designed to be worked in solid en broidery and the stems to be outlined.



465 Design for Embroidering a High Turned-Over Collar and Cuffs.

The scallops on the edges are to be pad-ded and buttonholed, and the dots between the scallops are to be worked solidly. The small flowers and leaves may be worked in solid embroidery or as eyelets; the small round dots also as eyelets and the stems outlined.



383 Chrysanthemum Design for a Centre-piece measuring 22 x 22 in.
The flowers are designed to be worked in solid embroidery or in satin stitch, the solid embroidery or in satin stitch, the veins and lattice work to be outlined, the venis and lattice work to be outlined, the scrolls, outlined with solid ends, and the scalloped edges to be buttonholed.

Brown Bread No. I
Ingredients, three teacupfuls of corn meal, two cupfuls of boiling sweet milk one teacupful of melasses, one cupful of wheat flour, one cupful of sour milk, one teaspoonful of sour milk, cne teaspoonful of sold, one half teaspoonful of sold, light and creamy. Add half a grated with 3 cupfuls of brown sugar until of soda, one half teaspoonful of salt, light and creamy. Add half a grated support of the sold of the sold

Embroidery Designs

THE COOK'S CORNER

Regions for publication are requested, industry to the following part of the following part o

spoonful of pewder-ed cinnamon, one teaspoonful each of cloves and mace. Dissolve a level tea-spoonful of soda in a half cupful of sour cream; stir until it steps purring, then add to it half a cupful of molasses, and add to the other ingredients. Mix well and put in six eggs, beating vigorously between each one. Confectioners and French chefs knead fruit cake with their hands, for it is too

Take the corn meal, sit into it the boiling sweet milk; when cold, add the molasses, wheat flour, and sour milk; into the sour milk sit well the molasses, wheat flour, and sour milk; into the sour milk sit well the soda; add also the salt; stann three hours.

MROWN BREAD NO. 2

Ingredients, one cupful of corn meal, one cupful of graphing in all the time. Have hours, and the sour milk, and the source of th



I once visited an old lady I once visited an old lady who always kept a small bottle of mucilage on the kitchen shelf, and whenever she burned her arms or hands on the oven door, or in any way from the cooking steve (those hort-dlittle, but aggravating burns), she used to spread a little mucilage over the surface immediately. This soon dries on the burned spot, and keeping the air from the burn, soon stops that smarting sensation which is always so pairful. Of course this remedy applies ful. Of course this remedy applies only to small or petty burns, and sheuld in no wise be applied in case of serious burns or scalds from steam.

—Miss C. B. Morse, Peterboro Co.,

Buy Farm and Dairy Patterns



Wholesome and Nourishing is Brown Bread. Try Farm and Dairy's Recipes given here

Cut the plums in halves, and stew them in a little water with argar to taste until they are tender. Put through a sieve, and mix with a boil-ed custard that has been allowed to get cold Lefore being added to the fruit. Set to cocl till ready to serve.

RICE AND BANANA TRIFLE

BICE AND BANANA TRIFLE Slowly boil some thinly-pared lemon rind in milk. When well flavored take out the lemon peel, and pour the hot milk on to some well washed rice in a double saucepan. Add caster sugar to taste. When the rice is in a double saucepan. Add caster sugar to taste. When the rice is quite soft, pour all into a mold to set. Turn on to a glass dish, and cover the top with red jam or jelly. Place some sliced banana carefully on the top of the jam, and serve with cream or custard. Bananas form a pleasing ingredient in fruit salads, and also in blane-manges, always provided that the bananas are in a good and rine condition. and ripe condition.

EGGS A LA MAITRE D'HOTEL

Make a sauce of half a cupful of melted butter, the juice of half a lemon and a teaspoonful of minced parsley. Cut hard boiled eggs in parsley. Cut hard boiled eggs in slices lengthwise, arrange on buttered toast and pour the sauce over the eggs.

HAM TIMBALES

Another delicious way of using remnants of cold boiled ham. Melt one cupful of chopped cold boiled ham, ½ tablespoonful of finely chopped parsley, and 2 eggs slight-

CHRISTMAS FOR MOTHER



Mahogany fin ish Rocking Chair, polished and carved panels, embossed cobble seat, Given in return for club of only five new Subscript ions to

Solid Oak or

FARM AND DAIRY Peterboro, - - Ontario

Send soon, a good Christmas Gift for Mother.

BOY'S BLOUSE SUIT, 6838



The blouse suit is the prettiest possible for small boys. This one can be made with box plait, collar and cuffs of contrast and curs of contrast-ing material or of one as preferred. It is easy to make and it is sure to be be-

it is sure to be be-coming and in every way satisfactory. Material required for boys 4 years, 3½ yds, 24 or 27 in. wide, 2½ yds. 36 in. or 2 yds. 44 in. wide.

The pattern is cut for boys of 2, 4 and 6 yrs., and will be sent for 10 cts.

PIECE SKIRT, 6827.



The close fitting skirt without fulness at the back is a favorite of the season. Here is one that is Here is one that is smart, that is straight and narrow without exaggeration Material required for medium size is 4½ yds. 24 or 27, 2½ yds. either 44 or 52 in.

The pattern is cut for a 22, 24, 26, 28 and 30 in. waist, and will be mailed for 10 cts.

WAIST, 6823 The blouse with over lapped front portions is pretty and attrac-tive. This model is pretty and attrac-tive. This model is trimmed with but-tons and loops of braid. It is made of cheeked material, and the centre por-tion, collar and ouffs are cut on the blas de in wide. The pattern is cut for a 3, 35, 36, 40 and de in. but and will be mailed for 10 cts.

TED DRESS, 6899



The pattern is cut for children of 2, 4 and 6 yrs., and will be mailed for 10 cts.



soft. They are pret-ty and youthful and especially well liked by young girls. Material required for 16 yr. size is 2½ yds. 21 or 24 in. wide, 1½ yds. 36 or 1½ yds. 44 in. wide, with 1% vds of all over lace.

The pattern is cut for misses of 14, 16 and 18 yrs., and will be mailed for 10 cts.

Peerless Farm and Ornamental Gates

We build Peerless Gates to last a life-ime-handy, convenient and attractive, they remain staunch and rigid through il kinds of rough usage. The frame is



THE BANWELL HOXIE WIRE FENCE CO., Ltd., Box H , Hamilton, Ont., Winnipeg, Man.

Hello! Hello! Lend us Your Ear For a Minute or so

We hear that you are going to build a rural 'phone line in your locality and enjoy the benefits of telephone-served We commend you for your

But lend us your ear for a minute or so. Listen while we advise you that you'll find the most satisfactory arrangement is an Independent System.

With an Independent System you own the telephones and equipment outright, instead of paying an exorbitant yearly rental to the trust. You soon You soon save a great deal of money.

But send for our No. 2 Bulletin, hich gives complete information about building and operating a telephone line.

With this No. 2 Bulletin we will, if with this No. 2 Builetin we will, if requested, send you our handsome new book, "Canada and the Telephone." For this book a leading artist has drawn thirty-two pictures illustrating the necessity and benefits of the tele-

If your system is already in opera

tion ask us to send you two or three of our telephones for free trial, so that you can compare them with others. We welcome comparison tests for our 'phones, because we are sure of their superior quality.

We make prompt shipments of all kinds of telephone equipment.

Canadian Independent Telephone COMPANY, LIMITED

24 Duncan Street, Toronto, Ont.



The 36th annual meeting of the Dominion Grange will be held in Toronto at Victoria Hall, Queen Street East, opposite Metropoli-tan Church, commencing on Tueday, the 13th day of December, 1910, at 10 o'clock

For programmes of the Annual Meeting of the Dominion Grange and other informa-tion address the secretary, J. G. Lethbridge, Alliance, Ont.

FARMERS' DELEGATION TO OTTAWA To the Officers and Members of Farmers' Clubs and other Organizations.

Arrangements are now completed for a monster delegation of farmers to Ottawa to wait upon the Government re the tariff

to wait upon the Government re the tariff and other matters of vital importance to the Agricultural interests of Canada. This delegation will meet in the Grand Opera House, Ottuwa, on Thursday, the 15th day of December, 1916, under the aus of Agriculture."

The forenous session, commencing at 10

a.m., will be devoted to the business of the first annual meeting of the "Canadian Nat-ional Council of Agriculture." All dele-gates are cordially invited to attend this meeting

meeting.
At 2 pm, a rally of all the delegate
will be held for conference and completins
arrangements for waiting on the Govern
ment on Friday, the 16th.
The Western farmers are taking hold of
this matter with great carnestness and expect to send 550 delegates. The Dominion. Grange will send a large contingent. Al ready a number of Farmers Clubs, as well as other organizations, have appointed delegates, and prospects are good for the largest delegation of farmers ever visiting

GOSSIP BROWN BROS.' AUCTION SALE OF HOL-

opportunity to obtain stock of the richest breeding at the public auction sale of Brown Bros. Lyn, Ont. called for Wednesday, Dec. 28th. The best bulls obtainable have always been used at Lyndale. For a number of years the herd was headed by the Kol Ends. Butter Boy 3rd, site of the head of the Kol Ends. Butter Boy 3rd, site of the head of the Kol Ends. Butter Boy 3rd, site of the head of the height copie and the state of the height copie and the state of the height copie and the height copie and the state of the head of the head of the head of the head as stord by San John San Joh pportunity to obtain stock of the richest Paul has stood at the head of the herd as sisted by Sara Hengerveld Korndyke, whose three nearest dams averaged 23.12 lbs. but a son of Sara Jewel Hengerveld 3rd by Count De Kol Pietertje Paul. Withop De Kol Korndyke Wayne, a grand son of Belle Korndyke and out of De Kol Withop Wayne 2nd A.R.O. 28.27

A number of the descendants of the stock mentioned as well as the great sire Count De Kol Pietertje Paul, as illustrated on page 28, and other stock mentioned in their

This Cylinder Shows Why The "EUREKA" Root Cutter



is the best on the market se how it is designed.
Grooved knives, with the
grooves on one blade
opposite the teeth on the next. Instead of slicing or pulping, the "Eureka"

or pulping, the "Bareka" suitable for any kind of feeding. The "Eureka" shreds from one to too bashels a minute, and turns so easily that a child can operate it. In the "Eureka" shreds from one to easily that a child can operate it. In the "Eureka" the feeder bottom being made with irected bottom being made with irected bottom it can reach the shredding cylinder. The stoping form of

The sloping form of the cylinder makes the machine a self-cleaner. Write for catalogue which explains fully. Tae Eureka Planter Co. Woodstock Ont.

Land For The Settler

160 acres of land convenient 160 acres of land convenient to Railways in Northern Ontario's great Clay Belt for each settler. The soil is rich and productive and covered with valuable timber. For full information as to terms of sale and homestead regulations, and for special colonization rates to settlers, write to

DONALD SUTHERLAND,

Director of Colonisation, Toronto, Ontario

HON. JAMES S. DUFF, Minister of Agriculture, Toronto, Ontario.

advertisement on page 14, will be offered for sale, Dec. 28. Remember the date and attend this sale if you appreciate the best.

One of the greatest problems confronting the farmer to-day is how to get his farm tilled, and to realize that the sooner it is done, the better and more profitable will be his farm. In view of the fact that farmers have been handicaped a great deal by not being able to get tile when they have time to haul it, it often has a ten-dency to cance this very important tiem dency to cause this very important item to be put off from time to time. Cement tile is now fast taking the place of the very constant of the place of the very cause of the constant of the con-tor and can be made right at home. The Farmers' Cement Tile Machine Co., of Walkerville, Ont., have a machine on the market for this purpose which sells at a market for this purpose which sells at a constant of the control of the control of the needing tile to get in bouch with them.

Renew your subscription now



The Machine The Farmer Needs

No. 1 DOUBLE ROOT CUTTER

Either for hand or power use, and excels all others for quantity and quality of work. The delivery of the feed into the Box or Basket is perfect when running at either high or low speed. There is money in properly feeding stock and a first-class Boot Cutter is a large factor in the case.

POINTS OF MERIT:

1st. To change from pulping to slicing is but the work of a moment.

2nd. There being two separate wheels, one for pulping and the other for slicing, each is specially adapted and the other for slicing, each is specially adapted by the property of the united force of both wheels is always used in doing the work in either capacity. This accounts for it between the property of the

TOLTON BROS., Ltd., Guelph, Ontario

CARDIGAN had two or to fus are a work. Hay pork, 8c to 5c turnips 16c, the past mor impassable, are from 4½c ples are scar frost to speal farmers have H. P. CARDIGAN

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FRANKVILI erops," "poor everything, wl good. This is Farmers ough they can neit prices they g from the publ HAS CHAPMAN,

CHAPMAN, about comple have closed do winter quarte to the rainy pasture. Our will be somew quite satisfact good, and the ficient for al NORTHU WARKWORT

wark word trict dairy me given by R. ' wa: J. F. Sin Ellis, of Farn Stone was non D. A. Weath agreeable. Fa VIC LINDSAY, N meeting held only 42 being : en by Instru-ning and J. I men reported with a larger Cattle are all and wet.—S.

Springfield, LYMANS, Ltd.

Imported (Stalli

The winners and Medals at Prices below a breeding consibuyer.

Come to the H

JOHN SIMCOE

***************** OUR FARMERS' CLUB

PRINCE EDWARD ISLAND

KINGS CO., P. E. I. ARBIGAN BRIDGE, Nov. 22—We have had two or three light snow storms. Most of us are about through with our fall of us are about through with our fall of the start of the start

ONTARIO

FRONTENAC CO., ONT.

BELLROCK, Nov. 19.- The ground is from BELLROCK, Nov. 19—The ground is frozen, and farmers are through with their fall plowing. Cattle, especially mileh cows, are going in for winter in good condition. There seems to be pienty of feed in the good price, the formattie were such a good price, the formattie were such a good price, the formattie will be good price with the good price will be a good price with the g

LEEDS CO., ONT.

LEBDS CO., ONT.

PRANKVILLE, Nov. 23.—Too many farmers have the habit of crying out "poor crops." "poor prices." and in fact "poor" everything, when both crops and prices are good. This is only an attempt to deceive. Farmers ought to know, and do know, that prices they good. The is only an attempt to deceive farmers ought to know, and do know, that prices they good. The farm products from the public.—W. H. farm products from the public.—W. H. M. farm products.

HASTINGS CO., ONT.

HASTINGS CO., ONT.

CHAPMAN, Nov. 24.—Pall plowing is about completed. Most cheese factories have closed down. Live stock is gained and the stock of the completed with the stock of the complete complet

NORTHUMBERLAND CO., ONT. WARKWORTH, Nov. 25.—We had the district dairy meeting to-day. Addresses were given by R. T. Grey, George Barr, Ottawa: J. F. Singleton, Kingston; and F. E. Ellis, of Farm and Dairy, Peterboro. Mr. Stone was nominated director on the E. O. D. A. Weather has been cold and disagreeable. Fall plowing is still going on.-

VICTORIA CO., ONT.

LINDSAY, Nov. 22—The annual dairy meeting held to-day was poorly attended, only 42 being present. Addresses were given by Instructor Cameron, Mr. Glendinning and J. F. Singleton. The croamery nen reported a very satisfactory year with a larger business than ever before. Cattle are all stabled. The weather is cold and wet.—S. N.



Cures Strained Pully Ankles, Lymphangitis, Pall Evil, Eistila, Sores; Wire Cuts, Bruises and Swellings, Lamenes, and Allays and Swellings, Lamenes, and Allays Pain Quickly without Buisterlar, removing Dain Quickly without Buisterlar, removing to the Company of the Company of

orse with a big "BORBINE and it cured him completely."

W. F. YOUNG, P.D.F., 123 Temple St.,

Mass.

Springfield, Montreal, Canadian Agents

Imported Champion Percheron Stallions for Sale

The winners of all Firsts, Sweepstakes and Medals at Toronto and Ottawa Fairs. Prices below all competitors, quality and breeding considered. Terms to suit the

Come to the Home of the Prize Winners

JOHN HAWTHORNE

SIMCOE CO., ONT.

SIMCOE CO., ONT.

COLLINGWOOD, Nov. 25.—We are feeling very pleased at the success of our fruit growers at the Ontario Horticultural Exhibition. More orehards will be cared for properly next year than every before. Fall properly next year than every before. Fall was a ready of winter—N. B. mmmmmm

AYRSHIRE NEWS

Parm and Dairy is the official orram and Dairy is the official or-gan of The Canadian Ayrshire Breeders Association all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column

AYRSHIRE RECORDS OF MILK AND FAT The following Ayrshire cows have lately registered in the Canadian Record of Performance Test:

MATURE CLASS.

formance Test:

MATURE CIASS.

"Highland Lass"—12913— bred and owned by Aicx Hunn, Menic, Ont. Nine years of the Nine ye

Tat 4.0s.

"Denty 4th of Ottawa" — 25299—, bred and owned by the Central Experimental Farm, owned by the Central Experimental Farm, test. 3 years and 5 days on the 1995, she gave 694.5 lbs. of milk and 312.20 lbs. fat. Average per cent. of fat 4.50.

"Reauty of Hickory Hill" — 2763—, bred by J. B. Poole, Dundas, Ont. Owned by Two YEAR OLD CLASS.

"Beauty of Hickory Hill" — 2763—, bred by J. B. Poole, Dundas, Ont. Owned by Js. Poole, Dundas, Ont. Owned Delta His of fat. Average per cent. of fat. 4.70.

"Donny"—5487— bred by James Clark, Samphellord, Ont. Owned by Jss. Bogg. Of test, 2 years and 55 days. Prom March 23rd in 365 days she gave 7239 lbs. of milk, and 32.79 lbs. of fat. Average per cent. of fat. 44.

fat 4.45.

"Lady Betty" —23604—, bred and owned by James Begg, St. Thomas, Ont. Age at commencement of test, 2 years and 170 days. From March 8th in 366 days she gave

commencement of test, a years and anys. From March 8th in 56 days she gave 7182 lbs. of milk and 302.71 lbs. of fat. Average per cent. of fat. 4.2. "Prime Donna" —24434—, bred by Alex. Hume & Co., Menfe, Ont. Owned by Frank H. Harris, Mount Elgin, Ont. Age at commandant of test. 2 years and 228 days

Prime Donna — 34434—, pred by Alex. Hermite Donna — 34444—, pred by Paralie II. Harris. Morale Oni Owned by Pranis H. Harris. Morale Oni Owned by Paralie Prom April 1st, 1990, in 354 days, she gave 7917 iba. 'milk and 29467 lbs. of fat. Average per cent. of fat, 3.6%. bred by A Kennedy & Son, Vernon, Ont. Owned by W. L. Centre, Innisfall, Alta. Age at commencement of test. 2 years and 29 days. From June 1st, 1991, in 356 days, she gave 6345 lbs. of milk and 275.4 lbs. of fat. "Prim of the Willows" — 28979—, bred by Dawes & Co., Iachine, Que. Owned by P. D. Mearthur, North Georgetown, Que. Age at commencement of test, 2 years and 63 she gave 6365 lbs. milk and 275.4 lbs. of fat. Average per cent. of fat 1548 she gave 6365 lbs. milk and 2754 lbs. of fat. Average per cent. of fat 1548 "Laura Belle" — 27772—, bred by William Ramie. Menie, Ont. Owned by W. L. Ceure, Innifall, Alta. Age at commencement.

Prize Winners
IORNE
ONTARIO
ONTARIO
ONTARIO

"Southwick Kirsty 8th" —22539—, bred by Sir Mark J. McT. Stewart, Southwick, Dum-fries, Scotland. Owned by George Hay, Howlek, Que. Age at commencement of 90.2 years and 65 days. From June 18th, 19th, 19th, 19th, 19th, 19th, 19th, 19th, 19th, 19th, and 23,0005 lbs. de gave 553.5 lbs. of milk of fat 3.0 cf fat. Average per cent.

of fat 3.92. "Southwick Lilly 5th" —28539—, bred by Sir Mark J. McT. Stewart, Southwick, Dunfries, Scotland. Owned by George Hay, Howick, Que. Age at commencement of test, 2 years and 66 days. From June 15th, 19th, 1 of fat 4.38

cent. of fat 4.39.

To Get. Ist. 1990, 194 cosys and heifers have registered in this test; 34 matter cows averaged 1975 lbs. milk and 409.17 lbs. fat, equal to 465.65, lbs. of butter per year; 8 four year cld heifers averaged 935 lbs. milk and 369 lbs. fat, equal to 469 lbs. butter per year; 16 three year old heifers averaged 935 lbs. milk and 369 lbs. fat, equal to 469 lbs. butter per year; 16 three year old heifers averaged 635 lbs milk and 360 lbs. fat, equal to 583 lbs. butter per year; 44 two year old 583 lbs. butter per year; 44 two year careful of 583 lbs. butter per year; 44 two year careful of 584 lbs. butter per year; 45 lbs. butter per year; 50 lbs. fat, equal to 584 lbs. butter per year. Per Stephen, See-Frens, C. A. lb. A. Huntingdon, Que.

FARM FOR SALE

The common the control of the common the common that common the common c

The Acknowledged Conditioner

For All Kinds of Stock

Natural Horse Food thoroughly renovates the system and prevents disease. A large number of the Veterinary Surgeons who have tried Natural Horse Food are using it and selling it in large quantities. Ninety per cent of the owners of prize winning horses at the Canadian National Exhibition are users of Natural Horse Food.

Many of our customers started with a 25 pound pail and are now buying in 200 pound lots.

Natural Horse Food is composed of herbs and roots and is free from all injurious ingredients.

OUR OFFER

If you have an animal that is out of condition, doesn't seem to thrive, has poor appetite, doesn't digest its food, blood out ot order, needs toning up, use Natural Horse Food; if you are not perfectly satisfied with results obtained we will refund your money without any argument-Is that fair?

We can furnish testimonials from the best stock men in

Price of food delivered by express, or at your nearest station; 25 lbs. \$3.50; 50 lbs. \$6.50; 100 lbs. \$12.00.

DIRECTIONS:-Tablespoonful twice a day.

Send to-day for a trial pail

Natural Horse Food Co. PARIS, ONT.

COME AND SEE US AT THE GUELPH WINTER FAIR, DECEMBER 5-9th, 1910



We have arranged to exhibit one of We have arranged to exhibit one of our many sizes of Evaporators and a complete line of most up-to-date Maple Syrup and Sugar-makers Supplies at the Ontario Provincial Winter Fair, to be held at Guelph from December 5th to the 9th, 1910. If you are a maple Syrup maker the "Champion" Evaporator will interest you, as it is the most profitable Evaporator on the market to-day. Made in 22 different sizes. Write for free booklet to

THE GRIMM MFG. CO. 56-58 Wellington St., MONTREAL, QUE.

is desirable to mention the name of this publication when writing to Adverti

AUCTION SALE

Farm, Live Stock and Implements

Irena, Dundas Co., Ontario 5 miles from Iroquois, G. T. Railway

Tuesday, December 6th, 1910

at 1 o'clock P.M., sharp

11 Pure Bred and 12 Grade Holsteins

PURE BRED HOLSTEINS .- 2 cows, six years old; 2 cows, four years old, 1 cow, three years old: 2 heifers, two years old, (all except the 3 year old cow are due to freshen in Feb. and March): 1 heifer one year old, and 2 heifer calves; 1 bull coming three years, Calamity Prince of Glenwood, sire Prince Posch Calamity 2nd, from Calamity Jane 2nd, and Prince Posch Calamity, Calamity Jane 2nd from Calamity Jane.

FARM contains 88 acres, all cleared and in excellent state of cultivation; 16 acres of young orchard, 600 apple trees and about 100 other fruit trees; excellent garden, underdrained.

HOUSE.-Frame, 28 x 34, complete in every detail; recently painted-a real

BARN .- 42 x 76, 8 ft. stone wall; basement, stable, with double doors and windows; well ventilated, cement floor. Power windmill; water piped all through stable.

COTTAGE-14 x 26 built in 1907. Hen house, 12 x 36.

REASON FOR SELLING .- Appointed Superintendent of Jordan Harbor Experimental Fruit Farm.

TERMS

On Farm, 10 per cent. at time of sale; 40 per cent. when deed is given; balance to suit purchaser. Farm subject to reserve bid. On Stock and Implements, all amounts of \$10 and under, cash; over that amount eight months on approved joint notes, without interest. Four per cent. discount for cash on credit accounts.

A. D. HARKNESS, Prop. IRENA, ONT.

THOS. IRVINE, Auctioneer WINCHESTER, ONT.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Frieslan Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for

STANDARDS FOR REGISTRATION OF HOLSTEIN-FRIESIANS IN RECORD OF PERFORMANCE

OF PERFORMANCE
BULLS — Admitted after having four
daughters in the Record of Performance.
each from a different dau
COWS—Admitted after fulfilling the following requirements of production and
the companies of the production of the production of the properties of the production of All cows admitted must equal or exceed

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|-------|-------------|------------|-------|----------|----------|---------|
| | | | | | Lbs. | Lbs |
| | | | | | utter Fa | |
| Two-y | rear- | old class | | | 7,500 | 255 |
| Three | -year | r-old clas | 88 | | 8,500 | 289 |
| Four- | year- | old class | | | 9,500 | 323 |
| Matu | re cla | 188 | | | 10,500 | 357 |
| | | cent. of | | fat | shall | be dete |

YEAR'S MILK RECORD-If the test be YEAR'S MILK RECORD—If the test be commenced the day the animal is two years old or previous to that day, she must pro-duce within 365 consecutive days from that date 7,500 lbs. of milk. For each day the animal is over two years old at the beginanimal is over two years old at the begin-ning of her year's test the amount of milk she will be required to produce in the year will be determined by adding 275 lbs. for each such day to the 7,550 lbs. required when in the two-year-old class. The ratio is applicable until the animal is five years sold, when the required amount will have to the required amount will have much amount of milk required of all cows much amount of milk required of all cows

mum amount of milk required of all cows many many of milk required of all cows YEAR'S BUTTER PAT RECORD—If the test be commenced the day the animal is two years old or previous to that day, she must produce within 355 consecutive days from that date, 255 lbs. of butter fat. For each day the animal is over two years old at the beginning of her year's test, the amount of butter fat she will be required amount for the product of the control of the control

Every cow accepted for registration of erformance must drop a calf within 15

months after the commencement of the test. In the four-year-old class and the mature class, no cow will be accepted for registration of performance if the beginning of her previous lactation period was more than 15 months before the commence-ment of the test.

All applications for the test must be mail-

ed to G. W. Clemons, St. George, Ont., secretary of the Canadian Holstein-Friesian Breeders' Association

LAKEVIEW FARM NEWS

LAKEVIEW FARM NEWS

Mr. E. P. Oaler, of the Lakeview Stock
Farm, writes Farm and Dairy that he has
recently sold to the Provincial Prison
Farm at Guelph, a yearling bull sired by
Brightest Canary," and out of a cow with
a 16 b 2 vear old record. This is the sectrace of the control of the control of the control
The Ortario Agricultural College purchased a calf from Mr. Osler, it being Hengeredd Farne De Kol, and out of a two yearold helfer that made 15% has of butter eight
when free and 15% has of butter eight
the beifer has made in 10 months over
this beifer has made in 10 months over
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De Kol from a 20 lb. dam.

Mr. Osler has purchased a young built from the Fred F. Fleid Co., of Brockton, Mass., to make with the helfer from his Mass., to make with the helfer from his na Lad, the son of the famous Colantha 4th's Johanna which, according to Mr. Osler, made &22 lbs. of butter in 7 days. The dam of this call, Monn Pauline De Kol has a 253 record and is the dam of a cow precord.

"Record."

A BULL LEADER MADE FOR BUSINESS The safest, surest device that we have ever seen for leading a bull is the "Never-Fail Simplex Staff." Every man who handles a bull should have one. Real who handles a bull should have one. Real punishment can be meted out to a bull by twisting on his ring with this substantial, light in weight, absolutely aske bull leader. Farm and Dairy readers can make no mistake in ordering one of these staffs as advertised by Mr. Brethen in the Live Stock Columns this weik.

Mr. Brethen has used one of these staffs for some time and is so highly pleased with it, and so firmly believes that every cuttle man should have one that he has cuttle man should have one that he has the control of these necessities before veryons who reads these farm and Dairy.

Farm and Dairy

Renew your subscription now

LAND PLASTER Car Lots or Any Quantity.

TORONTO SALT WORKS

Q. J. CLIFF, Manager.

COWS COULD TALK they would ask you STANCHION They can't ! So we



do.

re made of polish ed steel pipes, will cause no irritation orchafe the neck

Absolute Freedom for the animal's head.

STRONG AND HANDY

Send for Our Little Leaflet ONTARIO WIND ENGINE & PUMP CO.

TORONTO

club at once.

Have you won any of our new pre-If not, better send in a mlums?



COUNT DE KOL PIETERTJE PAUL

Sire of Pauline Hengerveld, 20.33 lbb. hutter in 7 days at 25 mos. old. Beauty Hark 2nd A. 18.95 lbs. in 7 days at 25 mos. old. Beauty Hark 2nd A. 18.95 lbs. in 7 days at 37 mos. old and 9 other A. R. O. daughters. Also sire of first prize breeders herd at Ottawa Fair. This bull and a number of his daughters will be offered for sale at Brown Bros. Auction Sale, Lyndale Farm, Dec. 28th. (Advt.)

ROPPERA

Decemb

Toronto, h of trade in condition. T of advertisin in the north sites. This There is no icle in the viterest as have few days.

Call money per cent.

The usual a garding the s gentina. The area is rum drought and Agency, who reports the s James Carr 0,000 to 86 od surplus of coupled with are falling in large selling bears have th ly in their ow export trade higher prices by the dealer On the loca quoted at 995 bushel; No. 2 to 85c outside On the far selling at 87c 84c to 85c a b

No. 2, 38c; No. mediate ships white, 33c to 3 on track Toros 85c to 87c; rye and malting American yell on track, Toro On the farm at 37c to 38c; to 63c; buckw Montreal wh grains are as ern oats, 40c; white oats, 38c bushel. Feed POLA

with the grain being lo abundant has Local dealers

Business has toes during to from 70e to 90 ity, and 60e a 1 Beans are \$1.90 to \$1.95 to \$2.10 a bush On the farme ing at 70c to 8 Montreal wh

and beans are Mountains, off Beans, \$1.65 DAI Trade is dull the demand is supplies are b

supplies are b wants of the premain firm. It ing quotations 26e to 27c; choosafor prints, 22c 17c to 18e a lb. Con the farme seeing at 28c to In Montreal In Montreal market is firm quoted at 25c t 24%c, and dair, Locally, there and dealers qu wins at 12%c On the Montris quoted at 11°11%c to 11%c a

EGGS The trade in and prices rems week. Select los salers at 29c; 25c to 27c a doze

MARKET REVIEW AND FORECAST

Toronto, Monday, November 28th.—The returns of the past week show all branches of trade in a healthy and progressive condition. There is a tremendous amount of advertising being done by the railways in the projection of town the Toronto, who had been as a reast of the condition of the properties of

WHIAT
The usual alarmist reports are affoat regarding the state of the wheat crop in Argentina. The southern part of the what area is rumored to be suffering from drought and the northern portion from frost. Mr. Broomhall, of Broomhall's Agency, who is at present in Buenos Agree, reports the southeastern part of the country extensively damaged.

reports the southeastern part of the country extensively damaged.

James Carruthers & Co. report that from \$\frac{1}{2},000\$ to 90,0000 bushels is the estimated earplus of the Argentine crop and this coupled with the fact that generous rains are failing in the dry sections, has caused not the coupled with the fact that generous rains are failing in the dry sections, has caused because the coupled with the fact that generous rains are failing in the fact that generous the failing that the fail that generous the fail of the fail o

on the local market, No. 1 Northern, is quoted at 99%c: No. 2, 97%c: No. 3, 95c a bushel: No. 2, Ontario winter wheat, 84%c to 85c outside.

On the farmers' market, fall wheat is selling at 87c to 88c, and goose wheat at 84c to 85c a bushel.

COARSE GRAINS

COARSI GRAINS
The market for coarse grains is looking up, with the exception of corn, the latter grain being low in price on account of states, local dealers quote Canadian western oats No. 2, 36c; No. 3, 35c, at lake ports, for immediate shipment; No. 2 Ontario winter white, No. to 36c outside, No. 3, 35c outside, No. 3, 35

on track, Toronto.

On the farmer's market, oats are selling at 3fc to 36c; peas, 75c to 76c; barley, 66c to 53c; buckbeat, 46c to 69c a bunkel.

Montreal wholesale prices for coarse grains are as follows: No. 2, Canada western oats, 46c; No. 3, 59c; No. 2, Quebes white oats, 36c to 35/5c; No. 3, 59c; No.

POTATOES AND BEANS POTATOES AND BEANS Business has been very brisk in pota-toes during the week and dealers quote from 70e to 90e a bag, according to qual-ity, and 60e a bag in car lots.

ity, and one a bag in car lots.

Beans are unchanged in price, being \$1.90 to \$1.95 a bushel for primes and \$2 to \$2.10 a bushel for three pound pickers.

On the farmers' market, potatoes are selling at 70c to 80c a bag, according to quality.

Montreal wholesale prices for potatoes and boans are as follows: Potatoes, Green Mountains, off track, Montreal, 25c a bag. Beans, \$1.65 to \$1.68 a bushel for three

DAIRY PRODUCTS

DARY PRODUCTS

Trade is dull, in darly produce, although the demand is very active. Cold storage supplies are being levid on to meet the wants of the public, however, and process remain firm. Local dealers give the following quotations: Choice creamery prints, 26: to 27c; choice dairy prints, 26: teparator prints, 25: teparator prints, 25: to 25: and inferior quality, 12: to 18: e.

the of the a h. Golden and the second and second and

to 85.25.

The trade in Toronto is as firm as ever and prices remain at the figure given hast week. Select lots are quoted by the wholesalers at 25c; and cold storage stock at 35c to 27c a dozen. On the farmers' market

The following quotations are given by dealers for hides: No. 1, steer and cow hides, 19c: No. 2, 9c: No. 3, 8c a lb; calf skins, 13c; shrepskins, 45c to 50c; tallow, 6c skins, 13c; shrepskins, 45c to 50c; tallow, 9c to 6) e a | b. At country points dealers are paying as follows: Sheepskins, \$1 to \$1.10; lambskins, 50c to 55c; horsehides, \$2.75 to 83; calfskins, 12c; horsehair, 30c a | b.

to 83; calfskins, 12c; horsehalt, 20c a lb.

There is a slightly weaker feeling noticeable in the price for hay, although wholesale prices remain nominally the same. More supplies are coming into the market, however, and farmers are obliged to whole at a trifle lower price. Follows: No. 1 timothy, 812.9 to 815, citer and clever mixed, 8103 to 81150, on track, Toronto, baled straw, 86.90 to 87 a ton on track, Toronto, to

On the farmers' market first class tim on the larmers market first class time-thy is selling at \$18 to \$19 a ton; clover and clover mixed, \$15 to \$17; straw in bun-dles, \$16 to \$18, and loose straw at \$8 to \$9. dles, 515 to 515, and 100se straw at 55 to 52.

Montreal prices are as follows: No. 1
timothy, 812 to \$12.50; No. 2, 810.50 to \$11;
clover mixed. \$7.50 to \$8; baled straw, \$5
to \$5.50 a ton on track, Montreal.

WOOL
Prices for wool remain unchange
Wash-d fleeces, 21e to 22c; unwashed, 13c
14c; rejects, 18c a lb. unchanged

FRUIT AND VEGETABLES

FRUIT AND VEGETABLES
Latest wholesale quotations are as solows: Apples, \$8,59 to \$4,59 a barrel, according to quality: carrots, 40c a basket:
cabbage, 40c to 50c a dozen: turnips, 50c to
abbage, 40c to 50c a dozen: turnips, 50c to
abbage, 40c to 50c a dozen: turnips, 50c to
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abbage, 40c to 50c a dozen: turnips, 50c to
abbage, 40c to
50c a basket; que plants, 10c to
50c a basket; que plants, 10c to
50c a basket;

to 35: a basket.
On the farmers' market, vegetables are silling as follows: Apples, 82.50 to 84.50 a barrel: cauliflower, 5c to 10c each; dry onions, 25c to 40c a basket; cabbage, 50c a dozen; beets, 20c a dozen.

HORSE MARKET.

Prices are still very high with no seem ing prospect of lowering for some time to come. Sales are in consequence few, al-though the demand is active. Dealers give Dealers give the following quotations: Drafters, \$225 to, \$275; general purpose horses, \$190 to \$220; drivers, \$135 to \$275; expressers, \$290 to \$220; and serviceably sound horses, \$50 to \$200.

LIVE STOCK

There have been fewer cattle in the yards during the past week than the week prev-ious and as a consequence butcher cattle during the past week than the week previous and as a consequence butcher cattle ious and as a consequence butcher cattle with the control of the control of

Hogs-f.o.b., \$6.65; fed and watered, 87 a

PETERBORO HOG MARKET

Peterboro, Nov. 28.—Danish hogs delivered on the English market last week totalled 35,000. The demand for bacon in the Old Country is very poor, the market being

CRUMB'S IMPROVED STANCHION

H. A. Moyer, Syracuse, N. Y., says 'they SAVE COST In feed in one winter." Sent address for speci-factions of inexpensive

in feed in one winter Sond address for spec fications of inexpension WALL CF 3. CPTMR D2 Wagest-His-Corn. F.S.A.

"""" and orders filled for a factory.

L'I correst indexe about he addressed to the home office.

Liate in equity if you prefer booklet in French or English.

CHOICE YORKSHIRE PIGS

From prize winning stock, eight week ld, at only \$5.00 cach. Pedigree furnished f you want a good one, or a pair, write o-day. Also have for sale a few registered hropshire ewes of different ages. For de cription and price, write:

W. H. CREWS, TORONTO, ONT.

REG. HOLSTEINS AND HAMPSHIRE HOGS

E. C. GILBERT, - PAYNE'S MILLS, ONT.

DAVID CAUGHELL, Yarmouth Centre, Ont.

HURRAH TO FERNDALE CLYDESDALES AND HOLSTEINS

Matched pairs of two year olds a specialty: a few good brood mares in foal to Lord Powis. First at London and also Glasgow, Scotland) both imported and Canadian bred, of good quality and superb

office of good quality and superior and candidates of good quality and superior action.

In Molestins we are offering 49 grade in Helperior of the pure bred built. This fourths old, bred to a pure bred built. This from 5 to 11 months old. A grade of the before, all bred. A limited number of proper of the before, all bred. A limited number of pure before, all bred. A limited number of pure built. This work of the before of the before

FIERHELLER BROS. MT. ELGIN, ONT.

MISCELLANEOUS

kidneys. The soth century wonder. Agents wanted in every county. Write for a free trial \$1 bottle. This offer only good for 60 days. Limited to 500 bottles. DR. BELL, V.S., Kingston, Ont

PURE BRED JERSEYS

All ages, combining Production and Show Points. A particularly fine 18 months old Bull. Grand Sire, Brampton Monarch, im-ported and sired by Brampton Arcola, twice first prize at Ottawa Fair. Let us know your wants. No fancy prices.

THE MANAGER, RIDEAU FARM Cummings' Bridge, Ont.

HOLSTEINS AND TAMWORTHS

FOR SALE. Seven bulls from 5 months to 15 months; 65 pigs, either sex, all ages; write for prices. Phone in residence, con-nection via Cobourg.

BERTRAM HOSKIN, The Gully, Cnt.

MAPLE-LEE CLYDESDALLS AND HOLSTEINS

MAPLE-LIE GLYUK-DUALIS AND HULSTEINS
We are offering for sale a pair of Clyde
We are offering for sale a pair of Clyde
Offering of the sale and in foal to Baron
Marry, sing 3 years and in foal to Baron
Marry, sing 3 years and in foal to Baron
Marry, sing a sale and sale and sale and sale
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TAMWORTH AND BERKSHIRE SWINE.— Boars and sows for sale. J. W. Todd. Corinth, Ont.. Maple Leaf Stock Farm.

TAMWORTHS AND SHORT HORNS FOR SALE Several choice young Sows sired by Imp.
Boar, dams by Colwill's Choice, Ganada's
boar dams by Colwill's Choice, Ganada's
bred to young stock ho and '8, recently
bred to young stock how the
tured sows. A few very choice
and two year old Shorthorn heifers. First
class family. Excellent milking strain.
Prices right.

A A. COLWILL, Box 9, Newcastle, Ont

NITHSIDE FARM

Herd of large English Berkshires, Sout down Sheep and Silver Gray Dorking Fox A choice lot of young Sows from 6 to eight of the Cockerels of t

E. E. MARTIN, Canning, Ont.
Paris Station, G.T.R. Oxford Co

FOR SALE

A number of young Chester White Pigs, purebred and of special quality. For prices and information, address

WM. AND G. G. SHIRREFF. CLARENCE, ONT.

cut this out as it will appear only twice

GODERICH JERSEY HERD

GODENICH JERGEY MERD
Only two young bulls left from 8t.
Lambert mothers, sired by Handsone
Fox 990. J. O. d., descendant of 601den Pern's Lad P. 2160 H. O. The most
celebrated bull the Island ever produce
celebrated bull the Island ever produce
sired bullet of 51,000 to 51, GEO. LAITHWAITE, GODERICH

This bull will be sold at bargain. We do not keep stock over.

BREEDER'S DIRECTORY

Cards under this heed inserted at the rate of \$4.00 a line per year. No eard accepted under two lines, nor for less than six months, or 26 insertions during twelve months. daring twelve months.

**Total Control of the Contr

CLYDESDALE HORSES, SHORTHORN CAT-TLE.—Large selection of best stock, Prices reasonable.—Smith & Bichardson, breed-ers and importers Columbus Con-

ORMSBY GRANGE STOCK FARM, ORMS-TOWN, P. QUEBEC, — Importation and breeding of high-class Olydesdales a spec-ialty. Special importations will be made.

SPRINGBROOK HOLSTEINS AND TAM-WORTHS.—High-class stock, choice breed-ing. Present offerings, two year old beif-ers, fresh and in calf. Young bulls. Five Tamworth boars from imp. stock, ready to wean.—A. O. Hallman, Breelsa, Ont.

SUNNYSIDE HOLSTEINS.—Young stock, RIDGEDALE HOLSTEINS.—For full particular in regard to stock and prices, address R W Walker, Utics, Ont

CLYDE HORSES, SHORTHORN CATTLE-Young stock for sale at all times.—S. F Redmond. Peterboro, Ont.

YORKSHIRE AND TAMWORTH HOGS.— Plymouth Rock and Orpington fowl.—A. Dynas. 436 Parkdale Ave. Ottawa

ONE 2 YR. STALLION by Champion Right Forward, Imp. One 2 yr. filly by Barron Beau, Imp. Yearting stallions and filles nostly all from importer, Acme Imp., mostly all from importer, Acme Imp., (Imp.) 2 year old filles just received, M. Holtby, Manchester P.O., and G.T.R. Station: Myrile, O.P.R. L. D. Phone.

AYRSHIRES

Nation Valley Stock Farm



Breeding of Ayrshire Cattle a Specialty

A number of Cows, Heifers and Young Bulls on hand. Correspondence will receive prompt attention.

Peter McIntosh, Proprietor CASS BRIDGE, ONT.

AYRSHIRES FOR SALE

Four heifers coming two years old. Will sell right, as I am going to quit farming. They are bred from Reliance of Glenora. No. 14961.

J. W. BOGGART, Mcrewood, Ont.

"La Bois de la Roches" Stock Farm Here are kept the choicest strains of AYRSHIRIIS, imported and home bred. YORKSHIRES of the best bacon types. WHITE WYAN. DOTTES and BARRED ROCK POULTY. HOM. L. J. FORET, J. A. BIBEAU, Managor HON. L. J. FORGET, Proprietor Ste. Anne de Bellevue, Que

BURNSIDE AYRSHIRES

Are Well Known.

They are from the best imported and home bred stock. They are true to type. They have good show yard records, as well as large records of milk and butter fat. Stock for sale. Write or come to Burnside Farm.

R. R. NESS, Proprietor, Howick, Que

E W 15-10-11

SPRINGHILL AYRSHIRES

Imported and home bred stock of a ages for sale. Stock shown with grea success at all the eading fairs. ROBT. HUNTER & SONS

Maxville. On: E-1-7-11

Long Distance Phone.

SUNNYSIDE AYRSHIRES

Imported and home bred, are of the choicest breeding, of good type and have been selected for production. THREE young bulls dropped this fall, sired by "Wether Hall Good-time"—28641—, (Imp.) as well as a few females of various ages for sale. Write or come and see.

J. W. LOGAN, Howick Station, Que. ('Phone in house.)

STONEHOUSE STOCK FARM



HECTOR GORDON.

0.0.8.10

Prize Winner For Sale

Prize Winner For Sale

Imported Ayrshire Bull, Morton Mains
Progra, 2656—(2820), here by Robt.

Program of the Winner School (2820), here by Robt.

Research and Research and

AYRSHIRE BULLS

From Record of Performance Cows, one Dec., 1969, one Mar., 1910, and 1 April, 1910. Write for particulars of animals and dams' record.—W. W. BALLANTYNE, Stratford, Ont. (Phone.)

WORLD'S CHAMPION HERD OF AYRSHIRES

For Milk and Butter Production. A few bulls and heifers for sale at present. Call or address:

WOODDISSE BROS Tanglowyld Farm, Rothsay, Ont.

AYRSHIRE CATTLE

Special offering of Cows, Buils and Heif-ers, imported or Canadian bred, with large official records; good unders, good big records; also 20 pair large Touques Geese at 85 per pair, and White Wyan-dotte Cockerels. For particulars write:

W. THORN
Trout River Stock Farm,
NORFOLK CO. LYNEDCOK, ONT.

HIGH CLASS AYRSHIRES AND YORKSHIRES fillin UARO ATRIBUTICO ARU JURNOHIRLO
FOR SALE—Artshire cattle, all ages, bed
from deep milking stock. A cow from this
herd stands highest in the Official Record
of Performance for this Province in 1999
and 190. Also improved Yorkshire Pigs.
ADD TO THE T

AYRSHIRE BULLS

The Commercial Kind. All descended rom Record of Performance Cows and Gr. lam on Sire's side: all ages. Several fit or next season's work. Will exchange for leifers of the right kind. Prices right.

JAMES BEGG R. R. No. I, St. Thomas, Ont.

RAVENSDALE STOCK FARM

RSHIRES CLYDESDALES YORKSHIRES We breed cows that will fill the pail and horses that will draw a real load. Come and see the stock or write for prices, which are reasonable. The best of quality imported and home-bred.

W. F. KAY, Proprietor

LAKESIDE AYRSHIRES

Special offering of four young bulls, dif-erent ages, from imported stock. Write or particulars.

LAKESIDE FARM, PHILIPSBURG, QUE. GEO. H. MONTGOMERY, Prop. 164 St. James St., Montreal

CHOICE AYRSHIRES Are Bred at "CHERRY BANK"

A few young bull calves for sale. Write for prices.

P. D. MCARTHUR, North Georgetown,

Howick Station on G. T. Ry.

HOLSTEINS

Centre and Hill View Holsteins SELECT FROM

At head of hors we have three of the choicest built in Gamark and Norine, Cornucopia and kine Colartha and Norine, Cornucopia and kine Colartha and anns and grand dams average over 30 lbs. butter in 7 days. We also own the Champ butter in 7 days. We also own the Champ butter in 7 days. We also so will be days test; also 5th place on cow and be days test; also 5th place on cow and butter of the mass, milking in 1906. For sale, males and females, singly or in car lots.

P. D. EDE OXFORD CENTRE, P.O. Woodstock Station e Telephone

HOLSTEINS

We are in the market for the Best Hol-stein Bull that money will buy to head our herd of over 50 registered females, several of whom are making good in the Record of Performance. Send descriptions and breed

MONRO & LAWLESS Elmdale Farms Thorold, Ont.

TO AVOID INBREEDING

I now offer for sale Duchland Sir Hengerveld, Maplecroft, No. 5290 (Imp.) Two-thirds of his get this year in my herd were thirds of his get this year in my herd were the same of the same 2 yrs. and 1875 at 4 yrs. made in avorable time of August. He is Pictertje Hengerreid Count De daughters that average over 190 250 at 11 145c, 240 at 1145c. Next market 10 250 at 11 145c, 240 at 1145c. Next market 10 250 at 11 145c, 240 at 1145c. Next market 10 250 at 11 145c, 240 at 1145c. Next market 10 250 at 11 145c, 240 at 1145c. Next market 10 250 at 11 145c, 240 at 1145c. Next market 1 250 boxes at 10½c.

two shillings lower. The delivery of hogs on the local market is very heavy. The George Matthews Co. quote the following Price for this week's shipments: f.o.o. country points, \$6.55 a cwt: weighed off cars, \$7.15 a cwt.; delivered at abattoir, \$6.55 a cwt.

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, November 28.—The
market for live hogs is practically unchanged from last week. The demand from
packers and dealers has been good, and
no difficulty was experienced in handling
the supplies as they came in. The prices
paid were practically the same as last
week, ranging from \$7.50 to \$7.75 for selected lots weighed off cars.

Dressed hogs are steady and unchanged

At letted, tubular, light in weight, early
though the come of th

Like a Farm Crop

The matter of advertising is The matter of advertising is very much like planting a crop. The first advertisements that a man puts in a paper are naturally the preparation of the soil and the sowing of the seed. Later the harvest begins. But unless the field is systematically cultivated, and volcerons. ly cultivated, and unless one stays in for the harvest, he na-turally loses what he has put in in preparing the soil and sowing the seed.

Thus it is that the permanent advertisement is the best one that can be counted upon as an unfailing profit-maker. Thus it is that the keen, more progressive and business-like breeders have their advertise-ments appear regularly in me-diums like Farm and Dairy.

diums like Farm and Dairy.

If you have pure bred stock
and wish to make the most of
it you should advertise your
stock in Farm and Dairy, Advertise it regularly if you would
reap the best results. Consult
the Advertising Department of
Farm and Dairy about the
stock you have for sale. Others
are making good sales at a profit through these columns. You
may command the best markets
for your live stock by adverfor your live stock by adver-tising in Farm and Dairy. Write us to-day about this matter.

at \$10 to \$10.25 a cwt. for fresh killed

abstoir stock.

EXPORT BUTTER AND CHEESE

Montreal. Saturday, November 25.—The

Montreal. Saturday, November 25.—The

Montreal. Saturday. November 26.—The

Montreal seek into Montreal amounted
to 17.500 house week into Montreal amounted
to 17.500 house week into Montreal
for the week last year, although the total now is insigsitilized in the seek in the seek in the seek in the country is total now is insigsitilized in the seek in the seek in the country will no doubt be
shipped through rary will be
shipped through rary will be
that the country is variously estimatted, the figures quoted by different parties ranging from 500,000 to 400,000 boxes,
but it is a difficult matter to judge the
parties of the country will be to be
the parties of the seek of the seek of the
day or two, and after the final sailing it
will be easier to determine the quantity
left in store on this side of the Atlantic.
Three has been a good trade in cheese
this week, the buyers taking advantage of this
week agreed the parties of the seek
that met this week, all sold at adfree that met this week, all sold at adfree that met this week, all sold at adthe top price paid was 15% to tile for white
and prices of the seek agreeding nearly 4,
600 boxes. Quotations range from 55%
CHEESE MARKETS

London, Nov. 21-1800 boxes cheese offer-EXPORT BUTTER AND CHEESE

CHEESE MARKETS

BULLS TAKE LIVES

Don't Risk your Life! Handle your bull with the latest invention-The

Never-Fail Simplex Staff

All steel, tubular, light in weight, can't come off, fastens on buil's ring with hook and set crew, unbreakable, absolutely safe, and set deve, unbreakable, absolutely safe, but have been been built and set by leading breeders. Figgest an and set by leading breeders. Figgest an and set built handled with ease by this device. 'It's all in the twist." The D on staff enables one to wist and throw the animal.

HOLSTEINS

IF YOU ARE LOOKING FOR

High-Class Holstein Friesian Cattle Tamworth Swine

Imported British Blood REMEMBER THE OLD RELIABLE Spring Brook Stock Farm

My Motto, "Quality and Fair Deal-Visitors always welcome.

A. C. HALLMAN Waterloo Co., Ont. BRESLAU

HOLSTEIN BULL FOR SALE

In order to avoid inbreeding, the undersigned offers for saie his herd bull, Korn-dyke Keye's Lad, 3 years old. This bull is richly bred. His dam has a record of 3335 lbs. milk and 13.31 lbs. butter, in 7 days, as a 2 year old, and his full sister 469.928 lbs. milk and 18.1238 lbs. butter in 7 days, as a 3 year old in official test. His grand dam on sire's side has record of 19,434 lbs. milk in 1 yr. and 26% lbs. butter in 7 days at 3 yrs. old This bull is quiet and gentle in every day and a most prepotent sire Apply to

> Jas. J. McCallum, Marmora, Ont.

Brookside Holsteins Four bulls sired by Highland Veeman Korndyke (Imp.). 3 nearest dams average 25 lbs. butter 7 days. Those calves are out of cows sired by "Johanna Rue 4th" Lad who carries 87% per cent. blood of "Colantha Johanna Lad," Mr. Fleed's \$8,000 bull, whose dams have high 0. Tests.

W. L. LAMBKIN, FORDWICH, ONT. HOLSTEINS FOR SALE

A number of nice straight Bulls descended from World record stock; also a few

choice young Cows. Apply to M. HARTLEY, Norwich, Ont.

BROOK-SIDE FARM Holstein-Friesians to sell. Many

from very good cows and sire. Age 4 to 18 months old Address Brook-side Farm. FELIX P. ASHBY P.O. 1766 Marieville, Que.

HOLSTEINS FOR SALE

A number of Holsteins for sale, two grade cows, rising eight years each, have given 9,000 lbs. of milk this season. Also two pure bred heifers due to calf in April; extra good ones, the breeding of them right, and prices right.

GEO. A. ROBERTSON, Clayton, Ont.

Decei

Br. B. J.

Wante Farm a

Do you w bred to a Admiral Or Francy 3rd Cow. Sire, the world's J. A. O. LAKE

Bull calv Fayne De K great cows, 35.55 lbs. by Creamelle, 2 780 lbs. mill days. These cows with re-RIVER

Eight bulls Sir Pietertje Kol Posch: l pion cow in 1909, and fro J. 1 Haldimand (

LYND We are no old son of "C out of a 20 Hengerveld K Both choice 2-2-11 BROW

EVERGRE

ters at 3 yrs. ter in 7 days this has nev There are oth we are expe Prices right. GEO. Y

TWO YOU! F Record made ing period was ter. Dam of Butter Girl, fi 1909. Terms re

MOUNT DAIRY RIVE

Offers Bull C Sire Sir Aaggi pedigree avera 6-10-16

HOLST THE MOST
Illustrated I
HOLSTEIN-FRI
LHOUGHTON, S
25-8-11

HOLSTE

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and sire's dam have each given over 100 lbs. milk in one
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daughters at 3 yrs. 11 days making 21 his daughter in 7 days; in the 3 yr. list at her agei in 7 days; in the 3 yr. list at her agei in 7 days; in the 3 yr. list at her agei in 7 days; in the 3 yr. list at her agei in 7 days; in the 3 yr. list at her agei in 7 days; in the 4 yr. list at her agei in 7 days; in the 5 yr. list at her agei in 7 days; in the 5 yr. list at her agei in 7 days; in the 5 yr.

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Record made by dam of one for last milk-ing period was 13,534 lbs. milk, 550 lbs. but-ter. Dam of sire of other was Queen's Butter Girl, first prize dairy test, Ottawa, 1909. Terms reasonable.

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The per cent. of butter fat should be de-ermined by Babcock test. YEAR'S MILK RECORD—If the test be YEAP'S MILK RECORD—If the test be commenced the day the animal is two years old or previous to that day, she must produce within 36 consecutive days from the date, 5500 pounds of milk. For each day the animal is over two years old at the beginning of her year's test, the amount of milk she will be required to produce in the year will be determined by adding 275 he to each such day to the 6, and the control of the control o

required of all coss five years old and over.

YEAR'S BUTTER FAT RECORD.—If test be commenced the day the animal is two years old, or previous to that day, she from that date 159 pounds of butter fat. For each day the animal is over two years old at the beginning of her year's test, the amount of butter fat she will be required to produce in one year will be determined by adding 1 (one tenth) of a required when the two years old at the produce in one year will be determined by adding 1 (one tenth) of a required when in the two-reading ones. This ratio is applicable until the animal is five years old when the required amount will have reached 360 pounds, which will be the minimum amount of butter fat required of all cows five years old and over.

over.

Every cow accepted for registration of performance must drop a calf within 15 months after the commencement of the test. In the four-year-old class and the mature class, no cow will be accepted for registration of performance if the begin-

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