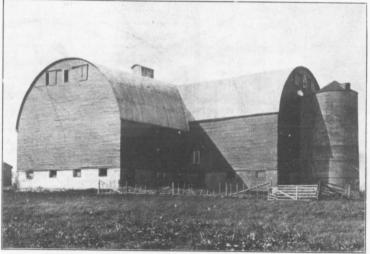


VOL. XXX

NUMBER 52.

RURALHOME

PETERBORO, ONT.



THE MANUFACTURING PLANT ON A WELL-MANAGED ONTARIO DAIRY FARM

The farmer who sells the hay, grain and other raw products produced on his farm is neglecting the most profitable department of the well-managed farm,—the manufacturing end of the business. The progressive farmer is a manufacturer. He turns the raw materials that he grows in the fields into such manufactured products as milk, pork, beef and live stock. Hence he realizes two profits instead of one on his farming operations. The building here illustrated is the manufacturing establishment on the dairy farm of S. A. Freeman, Oxford Co., Ont.

Mr. Freeman milks over 70 cows, and considers the manufacturing of feed into milk the most profitable end of dairy farming.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

WEIGHED BALANCE

Every Separator is "Weighed in the Balance" and most of them are "found wanting."

Not so with the "Simplex" Link Blade with the Self-Balancing Bowl.



The supply can is out of the way of the operaror. The oil-drip-can between base and body, catches all draining.

There are many pleasing features regarding the "Simplex." We have not space to mention them all, but will indicate one or two.

Easy Operate

Every dairyman of experience knows that the larger the hand Separator he can operate, the more profitable it is to him. What stood in the way of a wider use of the large capacity hand machine was the inability of any one to produce such machines that would be easy to operate.

A striking characteristic of the new model "Simplex" is that the 1100 pound size can be turned by hand at the required speed with ease.

Send for literature giving full information concerning the "Simplex."

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

Awaits Every Farmer Opportunity

In Poultry

98% of our people who read Farm and Dairy actually keep hens. They are students. They love their occupation, and hungrily peruse everything that pertains to it.

Your Opportunity To reach these people at a most

4TH ANNUAL MAGAZINE POULTRY NUMBER, FEB. 1st What space shall we reserve in it for you? Better attend to this now. Dropus a line to-day

Adv. Dept. FARM AND DAIRY Peterboro, Ont.

Railway Co. to Teach Agriculture

A new departure in the way of agriculture departure in the way of agricultural education will probably take place in the Provinces of Ontario, Quebec and New Brunswick next spring and aummer. The Canadian Pacific Railway is now negotiation. dian racine kallway is now negotiating with the governments of these provinces with a view to having special agricultural trains tour every part of the provinces in order that special agricultural trains tour every part of the provinces in order that demonstrations and lectures may be given to farmers with a view to im-proving the productive capacity of the

The system has been in operation in The system has been in operation in Western Canada for some years past and has proved so beneficial that the C. P. R. is now making the effort to and has proved so beneficial that the C. P. R. is now making the effort to extend the same tenefits to the east. If the scheme is adopted special trains with lecture and demonstration cars, and with professors from the various agricultural colleges, will spend the spring and summer going over the spring and summer going over the provinces and stopping at all the prin-cipal towns for lectures and demon-strations, to attend which farmers will be granted reduced fares in all the various districts

Dairy farming, fruit farming, stock Dairy farming, fruit farming, stock raising and a good seed propaganda will all be treated from a scientific point of view, and in such a way as to afford the maximum of practical help and encouragement to the farmers in every locality

Water for Dairy Cattle

E. F. Eaton, Colchester C., N.S. N. F. Laton, Cotenaster C., N.S.
Over 80 per cent. of milk is water.
A cow in good health and milking freely will drink 180 to 300 pounds of water daily Water, therefore, in one sense, is the most important part of the cow's ration, and we dairymen should make provision to supply our cows with good clean water. enouid make provision to supply our cows with good, clean water given to them in a convenient manner. I believe that one of the best in-

I believe that one of the best investments that can be made in the cow stable is a complete water system with individual basins. This enables the cow to get her water as nature intended, a little at frequent intervals—not her whole supply once or twice a day.

or twice a day.

THE HOLE IN THE ICE

Most of the farmers in his county
turn their cows out each day, rain or
ahine, to drink in a nearby creek or
from a trough in the banyard. Until
recently our cows were watered in
the same way, through a hole in the

The first cows out, if they were ag-gressive, would get to the hole first and fill up on the ice cold water. The and fill up on the ice cold water. The other standing around shivering would be too cold to drink when well around the turn came, but the next day they would make up for it be taking a double amount of the cold water. Their whole systems would receive a shock in the effort of nature to warm

We would have to burn a lot of fuel to warm that much water from no degrees to the normal temperature of the animal at 98 degrees. And

no degrees to the normal temperature of the animal at 98 degrees that of feed is the most expensive kind of feed is the most expensive kind of fuci. Were the cows to get their water a little at a time from individual brins their would not be such a strain on their systems. Two brothers in the Stewiacke Valley of Nova Scotla, who run a large dairy farm, found out several winters ago just how valuable their water system is. The system was out of order one day in the winter and the cows had to be turned out to the creek. When totalling up their milk records for each day of the month, Canpbell Bros. found that there was 10 per cent. less milk on that day than on any other day of the month.

me are cows shivering in the blizzard

trough.

Of cause, it is possible to abuse
the water system. I believe that every fine day the cowe should be let
out. There is a tendency to neglect
this unless it is necessary to turn
them out for water. That is our
fault, however, and not the fault of

Short Courses for Bee Keepers

Short Courses for Bee Keepers
The annual none crop in Ontario is
worth one and a half million dollars.
Ten thousand persons from Point
Pelee to the Cobalt regions, and further north, are enzaged in the businness of producing it, keeping 300,000
hives of bees for the purpose. Even
then not one-quarter of the nectar
secreted by Ontario flowers is ever
utilized. And although honey prices
are advancing every year, not onetenth of the honey is consumed in Ontario homes that our people are capable of eating. able of eating.

able of eating.

In order to give the bee keepers a greater interest in this important industry, a short course on bees will be given at the Ontario Agricultural College, January 9th to 20th. 1912. This course will be conducted by Mr. Morley Pettit. Provincial Aniarist, and is free to all. There will be reduced rates on railways. Bee keepers are urged to take advantage of the course.

Items of Interest

It is announced that a special divi-tion of the Dominion Department of Agriculture will be formed to promote the sheep interests of the country.

The members of the Canadian Forestry Association are reminded that the annual convention will be held in Ottawa, February 7 and 8, 1912. most practical program of any yet of-fered has been prepared.

The bringing of the thousands of acres of farm lands in connection with the various Provincial institutions, now cultivated in a more or less haplmarard and unscientific manner, under a central and directing head is being planned by the Ontario Government. The scheme is an important step toward making all the

imnortant step toward making all the buble isagitutions under government control self-sustaining.

The Niagara Fruit Growers have backed up the action of the Ontario Fruit Growers' Association by passing a resolution at St. Catherines on Dec. 20th. asking that the inspection of disability of the control o

The eighth annual convention of the

The eighth annual convention of the Canadian Seed Growers' Association will be held at Ottawa on February the 8th and 9th, 1912. This convention will be addressed by several minent men, and many matters of im-portance and interest will be discuss-ed. As this meeting commences on the last day of the convention of the the last day of the convention of the Forestry Association, those from a distance desiring to attend will be able to obtain special rates. Further particulars may be obtained from the Secretary, Canadian Seed Growers' Association, Canadian Building, Otta-

To cows that don't do well after calving we give them hyposulphite of soda in desert spoonful doses three times a day in the feed, and continue for a week or two. This drug works against blood poisoning. It is a specific for-that purpose. We have used this treatment for some years, and have recommended it to others, and have recommended it to others. We walker, Ontario Co., Oht. R. W. Walker, Ontario Co., Oht.

than on any other day of the month.

THEM'S EXTENSATION TOO

It does no good when there is a blizard outside to see my dairy cows scribers to your paper, and am well taking a mouthful of hay and then occasionally a lap of water from the basins while I know that all around county, ont.

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Vol. XXX

FOR WEEK ENDING DECEMBER 28, 1911

No. 52

Here's Wishing Dou A Right Happy And Prosperous New Dear

MANAGEMENT THAT HAS BROUGHT GOOD RESULTS ON AN EASTERN ONTARIO FARM

Attention to details a large factor in the success of this dairyman. Pure bred sires used for three generations The farm of Mr. Wm Wightman, Glendarry Co., Ont., described by an editor of Farm and Dairy,

C PLENDID arrangement in all departments and neatness in workmanship are characteristic of the farm and farming practice of Mr. Wm. Wightman, of Glengarry Co., Ont. Every fence, on this the Fourth Prize Farm in District No. 2, of the Interprovincial Prize Farms Competition conducted by Farm and Dairy, is laid out as straight as the eye and tape measure can make it. Every furrow must be turned as neatly as Mr. Wightman, who has won many prizes as a plowman, can do it. There are no unsightly piles of rubbish or old machinery lying around the buildings or fields. This care in looking after the small details of management, so often neglected, was taken particular note of by the judges in the competition, Mr. Henry Glendinning and an editor of Farm and Dairy. The following brief description of the farm is from notes taken by our editor when he visited the farm in July.

GENERAL LAY OUT OF THE FARM

Mr. Wightman's farm consists of 200 acres of loamy soil a few miles from the village of Lancaster, which is their shipping point. His farm is one and one-quarter miles long, divided in two sections by the public road. In the centre of the farm is some rough pasture land and a maple bush of nine acres or 700 trees. Last spring Mr. Wightman harvested 153 gallons of syrup from this bush. The rest of the farm is laid out in smooth, easily worked fields.

On the part of the farm opposite the house are three fields fronting on the public highway. A well kept lane runs back through the centre of the farm from the buildings. The most serious criticism that can be made of this arrangement is that the fields are too small, making it necessary to grow the same crop on several fields in the one season. Did Mr. Wightman have his lane running up the side of the farm, the length of the furrows would be doubled and the expense of growing the crops reduced accordingly. The fields were all measured out, being exactly rectangular. The lane and fields were well fenced, making it easy to pasture any field as required by the rotation

PURE BRED SIRES FOR THREE GENERATIONS

Mr. Wightman's dairy herd consists of 26 milk cows and 20 head of young cattle. Many years ago, Mr. Wightman's grandfather started in to grade up this herd with pure bred Ayrshire sires. This grading has been continued consistently ever since, and, as a result, Mr. Wightman has to-day a herd of cattle that are to all intents and purposes pure breds, of uniform conformation and coloring, and such producers of milk as would do credit to any pure bred herd. The milk from each cow is weighed four times a month. Last year the average production from the 18 cows in milk was 8,443 1-3 lbs. of milk each. The young cattle are a promising looking lot as might be expected from their breeding.

Mr. Wightman keeps 10 head of horses, included in which were three colts, one yearling, and a thoroughbred mare. This mare is of the very best of breeding, and Mr. Wightman be-



Storms Never Bother This Farmer

Mr. Wm. Wightman, Glengarry Co., Ont., whose Mr. Wm. Wightman, Glengarry Co., Ont., whose prize winning farm is described on this page, hardly knows when there is a storm raging, as thoroughly are his house and buildings protected by windbreaks. The windbreak here shown is 50 or 60 feet across, there being several rows of trees. In the foreground may be seen an feel of a fallar, with which erop Mr. Wightman is barring good success.

"Thote by an editor of Farm and Dairy."

lieves that he will be able to sell her colts for several hundred dollars each.

MR. WIGHTMAN BELIEVES IN HOGS

Mr. Wightman still believes that there is profit to be made in hogs, and at the time the farms were judged was feeding 20 Yorkshires of good bacon type. He keeps three brood sows and a pure bred Yorkshire boar.

Alfalfa is not generally grown in the extreme eastern section of Ontario, but Mr. Wightman has tried it with good success. This year he had seven acres in alfalfa, and so well has it done that he plans to extend the acreage. Other crops consisted of: Grain 37 acres, corn 10 acres, roots one acre, potatoes one acre, hay 75 acres, and pasture 43 acres. Barley and mixed grains comprised the most of the 37 acres of grain. The sow thistle is the most serious weed with which Mr. Wightman has to contend in his grain fields.

The main hay barn of Mr. Wightman's farm is 117 by 40 feet. In one "L" is the cow stable, 60 by 32 feet, and in another "L" of the same size the horse stable and loose Loxes for colts. Between the "L's" is a sheltered barnyard, where the cattle can enjoy themselves on sunny days. Conveniently situated for getting out the feed is an inside silo, 28 by 24 by 20 feet. The buildings are roofed with slate

Some of the machinery of this farm has seen in use for more than a generation. Mr. Wightman has a thresher and tread power and does his own threshing and silo filling: the thresher and tread power have been in use for 40 years. This fact bears strong testimony to the care that Mr. Wightman gives his machinery. All the machinery used on the farm is carefully housed, and the plan is to wear it out rather than let it rust out

THE OLD LOG HOUSE REMODELLED

The farm home of Mr. and Mrs. Wightman is the old log house originally built on the farm. Its appearance has been improved by weather boarding and the addition of a neat verandah. The interior is fitted comfortably and attractively. The house is heated by hot air. A couple of daily papers, several weeklies and four leading farm journals keep the family in close touch with the world's news, and the latest and best in agriculture. Around the house are extensive lawns shaded by trees planted many years ago.

The Wightmans hardly know when there is a storm raging, so thoroughly protected are the buildings by wind breaks. These wind breaks were planted by Mr. Wightman's father, and have now attained a good size.

Mr. Wightman is an intelligent student of agricultural progress, and he is quick to apply new and better methods in his farm practice. His attention to details is wonderful, and might be copied with profit by others of our farmers. His success as a dairyman is due in no small degree to this care of details, looking after the small ends of the business as well as the bigger things.-FEE

Patrons who are sending small quantities of milk to cheese factories are in poverty. They are not doing the things they ought to do by themselves, by their country or by their gov-The man who possesses cows whose ernment . product sells for \$14 annually should be held up where he could see himself and where his neighbor could see him. There should be some way of taxing the slovenly fellow and driving him out of the business. We should either make him sell or build. He should not be allowed to cumber the ground. We surely are our brother's keeper, and we must get after these fellows who have these cows .- D. Derlyshire, Leeds Co., Ont.

Corn the King of Plants*

Prof. D. H. Otis, Madison, Wis.

According to Prof. Henry of Wisconsin, "Corn is the great energizing, heat-giving, fat-furnishing food for the animals of the farm. " " " No other grain that the farmer grows yields, on a given space and with a given expenditure of labor, so much animal food, both in grain and forage, as does the Indian corn plant."

Corn is particularly appetizing to all classes of animals. While a ration for a dairy cow can be made without using corn, it is seldom done where corn is obtainable. Corn, while such a valuable and indispensable feed, should not under ordinary conditions, constitute the entire grain ration. It is deficient in crude protein and ash, and should be fed in conjunction with other feeds rich in these ingredients. It will be noted that under the headings of digestibility and facility of digestion that corn stands out prominently as a feed easily digested and containing a large number of units of net available energy.

CORN FOR SILAGE

Corn silage and roots are examples of feeds that are greatly relished by our live stock. Of the various palatable feeds corn silage is doubtless the cheapest and most effective. Roots, while sorving an excellent purpose, require about twice as much labor to produce.

Corn silage adds palatability and variety to the ration, is a cheap feed to produce and to store, and doubtless goes farther than any other feed to solve the problem of restricted pasture acreage or to tide over scant pastures during a drouth.

SILAGE ECONOMICAL TO PRODUCE

By converting the corn crop into silage, the farmer can handle his crop cheaper and with less waste than by any other method. Mr. C. L. Hill of Wisconsin reports that it costs him from 50 to 60 cents a ton to put his corn crop in the silo, or about \$7 an acre. The same acre of corn, he figures, would yield 150 baskets of corn that would cost him \$6 to husk, which, with the cost of cutting, stacking, shredding and grinding, would be about double what it costs to put the same crop in the silo.

Silage is greatly relished by the cows and causes a glossy appearance of the hair, similar to pasture grass. It is convenient to feed, and is available summer or winter.

SILAGE ECONOMICAL TO STORE

Corn silage is not only palatable and cheap to produce, but it is an economical feed to store for the production of total nutrients. This is shown as follows:

One ton of mixed hay occupies 400 cubic feet. Eight tons of corn silage occupy 400 cubic feet. One ton of mixed hay contains 1,742 pounds of

dry matter.

Eight tons of corn silage contain 4,224 pounds of dry matter.

One ton of mixed hay contains 960 pounds of digestible dry matter.

digestible dry matter.

Eight tons corn silage contain 2,560 pounds of digestible dry matter.

It will be noticed that the farmer can store two and one-half times as much dry matter in the silo as he can in his hay mow.

Silage when kept in sufficient quantities is always reedy to use when needed. The advantages of summer feeding of silage, particularly during periods of drouth, is fully appreciated by those who have tried it. During the latter part of last summer, when pasture was scarce or dry, corn silage was fed to the University dairy herd. The flow of milk from the herd was never maintained so well during this period of the year as it has been by the use of corn silage. The summer silo is sure to become a more important factor in successful dairying.

*Extract from an address before the American Dairy Farmers Association at Chicago recently.

The economy of silage in beef production has not been as thoroughly established as for dairy production. It has, however, been tested by a number of experiment stations and by stockmen with excellent results. There is no question as to the value of corn silage for sheep. By careful handling it is also proving a valuable aid to the salf feeder, and recently silage has been fed to horses with very encouraging results. The fact that silage is so useful for these various classes of live stock ought to give additional incentive to the dairyman to provide for an ample supply of this most excellent feed.

Corn silage should be fed as a supplement to and not as an entire substitute for hay or grain. It should be borne in mind that silage is carbonaceous and should be balanced with proper protein feeds. It is also a loosening feed and should be used with a knowledge of its effects upon the bowels of the animals fed. This is especially true of calves and horses. Corn silage properly combined with other feeds in the hands of a judicious feeder will produce results that are most gratifying.

Pointers on Winter Milk Production R. Walker, Ontario Co., Ont.

We calculate to have our cows to freshen every month of the year, as, by so doing, we get a



The Kind of Stock That Interests the Boys

Good, pure bred live stock is attractive to all, but particularly to the boys. A good team is a strong link between the boy and the farm. The fine Glydesdales here illustrated are owned by Mr. Albert Tamblyn, Durham Co., Ont.

uniform quantity of milk the year round. The profitable management of a dairy herd in winter depends on our ability to make every cow pay us for feed and care and more besides. It is necessary to watch closely each individual cow. We find that no two cows are exactly alike. We feed each one according to her capacity.

Before we feed them each time we have the mangers cleaned out, so that the fresh feed wont get mixed with any litter that might be left in the mangers from the previous feeding. We always endeavour to feed each cow just enough that she wont leave any in her manger to waste.

WHEN TO START FEEDING

In the fall, when a cold rain comes or fresty nights, we keep our cows in the stable and feed them any kind of feed we may have at hand, and turn them out to pasture after they are milked the next morning. Later in the fall we begin feeding ensilage and a little meal with it.

We usually feed a mixed meal of oilcake, oats and bran. We feed meal according to the amount of milk the cow is giving, a pound of meal to every three or four pounds of milk. We also feed a few mangolds and plenty of salt every day. Water is in the basins in front of the cows.

The time of freshening is a critical one. If the cow goes wrong then and does not do well afterwards it mean a heavy loss in the milk flow; and sometimes the cow is ruined for life. A little watchful attention, with some assistance at the time when needed, will usually avoid trouble and loss afterwards.

With conditions favorable, winter dairying pays very well in ordinary seasons.

Cooperation Arises from Specialization L. K. Shaw, Welland Co., Ont.

To-day is the day of specialization. We are coming to realize that it is much better to be master of one trade than a "Jack of all trades." This specialization is extending to agriculture. In a recent address, I see that our Deputy Minister of Agriculture, Mr. C. C. James, has been emphasizing the value of specialization. He urges the dairy farmer to extend his energies to dairying, the fruit farmer to fruit growing, and so forth.

In urging on us this specialized agriculture, Mr. James was only referring to the greater profits in the internal management of the farm, such as reduction in cost of preduction, the more intimate acquaintance that we would get with the requirements of our particular line and the production of a better quality of goods.

GREATEST BENEFIT OF ALL

I believe that a still greater benefit would result from specialized agriculture. I believe that it will result in a wider adoption of the principle of cooperation in buying and selling our products. Where is Canada making the greatest progress in cooperation at the present time? I have not definite figures, but I believe that it is in the specialized fruit sections. There, producing only one kind of produce, it is easier to get together in the marketing of it than in a general farming section where there is a little of everything for asle.

We dairy farmers have widely adopted cooperation in the manufacturing of our milk into butter or cheese. When it comes to the marketing end we are not doing so well. What we might be doing we can find out by studying Denmark. Danish butter is practically all marketed by the Danish farmers themselves through their cooperative societies and their pork through their cooperative pork packing establishments.

Under present conditions in Canada, cooperation on such a scale as this is imposed be. We must first have greater specialization. When we have all of the farmers in one community depending altogether on dairying for their livelihood they will begin to take more interest in the cooperative marketing of their produce even as the fruit men are now doing. And they will make more money, too.

Good Training For the Boys

W. C. Shearer, Oxford Co., Ont.

Each year since commencing cow testing we have found one or more cows that were not paying enough for their board and lodging. We have increased the average production of our herd from 6.000 lbs. to nearly 7.000 lbs. of milk yearly.

Another great benefit that we have derived is that our boys have become more interested in the farm and in the cows. We pay our boys 40 cts. a month for each cow they milk well and properly. If they milk four cows, therefore, they will get \$1.60, five cows \$2, and so on. They thus earn their own spencing money and swell their bank account—if they are inclined that way.

They weigh the milk and keep the milk records. I trust that this business training will ultimately make successful men and good useful citizens of every one of them whether they choose agriculture or some other profession as their life work.

Do not wait until spring to clean and grade your seed grain. Do it now, while you have plenty of grain at hand from which to select. The best 25 bushels of grain out of 100 bushels is worth much more for seed than is the grain that can be cleaned from a much smaller amount in the spring. The cost of thus cleaning and grading the grain is very slight, and it enables one to have heavy, plump seed grain at very little outlay.—A. D. Wilson. Whin Ca of ur the f sons

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Condition of the Swine Industry in Canada

A. C. Hallman, Waterloo, Ont.

What the future will bring the swine industry in Canada is hard to fathom. There is a feeling of unrest among the producers. In foretelling the future, however, we may be guided by lessons of the past.

Millions of wealth have been added to this country, directly and indirectly through the swine industry, in the short space of 20 years It is a lamentable fact, nevertheless true, that after enjoying a wave of prosperity, with a reputation gained at home and abroad and an unlimited demand of high class article the product of our Canadian farms, skilfully prepared and marketed by our Canadian packers, catering after the tastes of the wealthy British consumers, that this industry has almost lost its prestige in the British market through the lack of Canadian producers.

WHAT WE OWE THE PACKERS

Without going into history, let us stop for a moment and see how this industry was built up. The average Canadian producer does not know that our profitable swine industry is the creation of the Canadian packer and the origination that of a single man, the late Mr. Davies of Toronto, to whom the Canadian farmer owes much for his pluck and industry. What would the Canadian farmer do to-day with his swine if it were not for the packer, and the British market?

Again, on the other hand, what will the packer do without the hearty cooperation of the Canadian farmer? What has brought about the upbuilding of this important business in such a short time in the past will be largely the remedy for deficiencies n the future.

A REVOLUTION IN HOG TYPA

The packer told the Capadian farmer that he must produce a certain type of hog, the bacon type (which is now familiar to everybody), for which there was an unlimited demand and for which packers were prepared to pay the highest market price, or both packer and farmer would have to go out of business. This was taken up by the farmers' institutes through the Department of Agriculture, the agricultural papers and press in general, till everybody was aroused. The farmers acted promptly, with the result that in a short space of time the whole swine industry was revolutionized and a very superior type of bacon hog was produced in almost unlimited quantities. The hogs were graded, fat, light fats, lights and "prime singers," and from the consumers' standpoint the farmers were paid according to the actual value of the hogs produced.

The packing houses multiplied and with them the drovers, who nearly tumbled over each other in the scramble for hogs, with a result that the grading was all lost with the drovers, the packing houses are in a few hands, and the farmers are again resorting in many cases to old lines of breeding and feeding, the demand for Canadian bacon on the old Country is in a demoralized condition and inroads have been made by other countries, which it will take years to restore.

HIGH PRICES OF GRAIN HAVE EFFECT
That the packer and drover are only at fault
we are not saying. There are other natural
causes. The low price of grain and other farm
products, with a fair price for hogs, induced the
farmer to market his grain in the finished bacon
hog. The high price of grain during the last
few years and the unsettled feeling in the hog
business has induced the farmer rather to sell his
grain than to take chances in feeding it to hogs,
with a result that hundreds of brood sows were
slaughtered and almost a famine created in hogs,
till prices soared Leyond legitimate to fabulous

Right here is where I would like to sound a note of warning to my fellow farmers. Let us not rush into extremes, or we may reverse conditions badly. Every farmer should raise as many hogs as he can nicely manage, without overdoing it or making it a burden to himself. He m st also aim to raise only prime bacon hogs such as the best market demands. He must aim to feed more economically—less on grain and more on roughage, roots, clover etc.

PACKERS MUST PAY THE PRICE

The packer must cease buying and paying on a flat rate to farmers. The farmer will produce the goods if the packer pays the price, but he must discriminate to the farmer instead of to the drover. Cooperative packing houses such as they have in Denmark would be ideal, but this is hard to bring about in this country under present existing conditions.

The scheme of cooperation that should settle all disputes, difficulties and grievances in consection with our awine industry would be for the packer and farmer to cooperate. Let us come together. Let the Canadian Swine Breeders and the packers come together and gain such confidence in each other that each will do their fair share of the business without unreasonable ex-



Edgar Dennis, York Co., Ont.

In order to get the best results in the making of a dairy cow we must first see that the calf is by a good sire of good milking families. The dam also must be a good milker, and be in good shape while carrying the calf. We prefer to breed from cows with nice shaped udders and well placed tests.

When the calf is born we allow it to stay with its dam for three or four days until the milk is good for other purposes. This is Nature's way, and I think it good for both cow and calf. As we sell our milk as it comes from the cow we have no akim milk on which to raise our calves.

THE CALF PEEDS ITSELF

When the calf is four days old we put it on a cow or heifer that is giving four quarts of milk night and morning. Thus the calf milks the cow and does well on it. It will not get too fat on this ration, but will be as large, at three months as lots of calves are at a very.

As soon as the calf will take clover hay we give



Scenes such as this are no longer common in Rural Canada

The establishment of big packing houses in Canada, handling hundreds of hogs daily, has reduced the opense of killing and dressing hogs to a minimum and has rendered farm butchering unprofitable. Farmers now prefer to abit pitch togs alive rather than gather their neighbors together to butcher and prepare their swins for market, as was once the case. The scene here illustrated is from a photo taken on the farm of Mr. Jan. Tiffin, fluture Oo., Ont.

actions on either side. This valuable industry must be fostered. Canada cannot afford to lose it, and the sooner we settle the question the better for our great commonwealth.

Suggestions on Breeds of Sheep

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

The long wool breeds, Leicesters, Cotswolds and Lincolns, originated in the rich level pasture sections of England. They are very heavy sheep, valuable principally for their mutton, and are not apt to succeed in the rough, hilly sections in Canada. On the majority of farms in Old Ontario, however, I believe they would be very adaptable, and a few of my friends are having excellent results from their flocks of border Leicesters. The Down breeds are better suited to rough conditions, such as we would find in Northern Ontario, parts of Quebec and in the Maratime provinces, but they do even better under conditions as we find them in Old Ontario.

In the rougher, colder sections, such as in the extreme north of Ontario, the northern part of Quebec and in Cape Breton Island, there is a breed of sheep called the Black Faced Highland which I have heard spoken of very highly by the mountain shepherds of Scotland. This breed is well worth experimenting with in some sections of Canada. So far I understand that the flock owned by the Nova Scotla Government is the only one if this country.

it a little; also whole onte, bran and a little oilcake put in a small box in the pen. The calf will
soon learn to eat these, and, with the cow's milk,
will grow like a weed. At three months we wean
the calf off the milk and give water, clover hay,
oats, bran and oileake. We feed well the first
winter and keep the calf away from the flies in
summer.

A LONG FIRST MILKING PERIOD

We breed the heifer at 15 months of age. We feed well towards calving time. We allow her to milk six months before breeding again in order for her to grow and to form the habit of persistent milking. I prefer to have my calves dropped in the fall, as we then have lots of time to look after the calves in winter. When grass comes they are ready to go out.

Some will consider this an expensive way of raising calves, but I say to those dairymen, "Try it and you will be so tickled with the way the calf has done that you will say, 'bother on the expense."

We are relieved of considerable expense by the calf doing the milking and feeding itself. If given the run of a box stall it will not get too feet.

Milk is 87 per cent water. Is it not reasonable to argue then that the first principle of good feeding is good water?—Henry Glendinning, Ontario Co., Ont.

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Reteretetetetetetetetete The Feeders' Corner

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

Feeding Value of Skim Milk

What is the feeding value of skim milk when fed to hogs or calves along with grain or roughage?—W. Hyde, Norfolk Ont.

The value of skim milk for feeding purposes is usually stated at 20c cwt., but the value varies widely de cwt., but the value varies widely de-pending upon the amount of feed and the age and kind of animal to which it is fed. This winter it is more than 20c on the average, as all other feeds are high in price.

Professor Henry of Wisconsin, as a

result of experimental work, found that 3.27 lbs. of skim milk was equal that 0.32 los. of skim milk was equal to one pound of corn meal when two to three pounds of milk were fed to each pound of grain; when three to five pounds of milk to each pound of grain it took 4.46 lbs. of skim make the control of the control o one pound of corn meal when two will make about equal use of skim will make about equal use of skim milk so far as gains in weight are concerned. Older animals will not make as economic use of the skim milk younger ones.

Stating Henry's conclusions in another way, if corn is 50c a bushel, milk is worth 28c when fed in proportion of three to one; 16c portion of three to one; 10c when ied in the proportion of nine to one. If corn is worth 56c the relative val-ues are 31c and 18c, and when corn is worth 84c the value in the first case is 36c and in the second 27c.

Live Stock Notes

The successul stockman must know what each of his animals is doing each day. With the dairy herd, it is comparatively easy to keep track of each day's record, simply by weigh-ing the milk each time the cows are milked. It requires but a fraction of a minute's time each milking, and en-ables one to know at once if for any reason one or more cows are falling off in their milk; and to remedy the cause before a serious loss has been sustained. Testing for butter fat need not be done oftener than once or twice a month; but the milk should be weighed at each milking.

It is not always the heaviest feeders who get the best results. Every animal requires certain nutrients, the that these nutrients are not supplied in the proper proportion, it means that the animal must consume and adjust larger amounts of some of the elements that it cannot use, in order to get enough of the others. Economi-Economical feeding requires that nutrients be supplied to animals in the proportion needed. As a rule, farm feeds are lacking in protein. This is especially lacking in protein. Into is especially true this year, when there is a scarcity of clover hay. If one is feeding cornstalks or wild hay, the farm grains water, to will not supply enough protein to meet the animals' needs for best work This is especially true of dairy cows and young stock. When this form of roughage must be fed, some such feed as bran, middlings, or oil-meal must form a reasonable proportion of the grain ration, in order that the pro-tein supply may be maintained.

Just as one enjoys eating an apple occasionally—especially during the winter, when less fruit and vegetables winter, when less fruit and vegetables are used than during the summer— just so the live stock in the winter, when their rations consist largely of dry feed, need and appreciate some form of succulent food. There is very little added expense in supplying animals with a reasonable amount of succulent food, either in the form of roots or silage. For a herd of 12 or more cows, this succulent food is most cheaply supplied by the use of silage, but for the smaller herd, or for a man without a silo, roots afford an excellent substitute for silage.

By care in preparing the soil and growing the crop, from 15 to 25 tons of roots, like mangels, rutabagas, or stock carrots can be grown per acre.

stock carrots can be grown per acre.
They can be stored under the feeding alley, or in a pit outside of the barn, at very little expense. Twenty tons of roots will supply 10 cows 20 pounds a day each for 200 days, and can be grown and harvested at a cost of less than \$40. The nutrients contained in Room and narvested at a cost or less work.

The company is face to face with 20 tons of roots are worth \$50 when strong opposition in getting milk, as bran is worth \$20 a ton; so the feed-time worth \$20 a ton;

*********** CITY MILK SUPPLY DEPARTMENT

Anent Homogenized Milk

Anent fromogenized wilks
Editor. Farm and Dairy.—I notice
by two recent issues of Farm and
Dairy some remarks, and doubts, in
regard to the new process of homogenizing milk. Homogenizing appears to le making its "debut" to
the farmers of Ontario. We have had
a factory in our little county the
last 18 months and I feel quite eafe in saying it has passed the experi-

in saying it has passed the experi-mental stage. Like all other new industries that have started for the benefit of man-kind, we found lots of men to proph-esy its downfall; indeed some take a special interest in spending all their idle moments in convincing their less dubious neighbors that it will not



A Grand Good Cow and a Champion

Jemima Wayne Johanna, the cow here shown, was lat in her class and grand champion female at London Fair, 1911. She has an official record of 21.65 lbs. butter in 7 days, and 503.99 lbs. milk at 5 years old. She is now 7 years old and has given 15.9% lbs. milk in 10 months. She is owned by M. L. Haley, Springroff P.O., Ohi, who is consigning several Holsteins from his herd to the Southern Ondario Breeders sale at Tulicobhirg, next week. See gossip notes in this issue about his offering—Photo taken eight noutbe after calving.

Based on the average farm price of feeds for the last 10 years, oats are worth on the farm \$19.37 per ton, and have a feeding value of \$21.10; barley nave a feeding value of \$21.10; barley is worth \$17.50 per ton, and has a feeding value of \$21.98; corn is worth \$13.63 per ton, and has a feeding value of \$22.66. In other words, at the average farm price, a dollar's worth of feed in oats costs 92 cts.; in barley, 80 cts.; and in corn, 65 cts. The feeding value is figured on the has reeding value is figured on the basis of bran at \$20 per ton. On the same basis, a dollar's worth of food nutrients could be supplied in clover hay for 40 cts.; in fodder corn 57 cts.; and in timothy hay for 60 cts.; in ensilage for 78 cts.

In view of the above facts, it is plain that a combination of corn and clover will make a most economical

I received my pure bred Tamworth w for securing six new subscribers to Farm and Dairy, and think she is a real beauty. Please accept my thanks for same.—Mrs. Robt. Twiss, Halton Co., Ont.

pay for the cost of production, beside the additional advantage of their sup-plying the succulence needed by the animal.

**

hundreds of private dairies making butter and numerous farmers ship-ing milk and eream to the coal min-ing towns. But the Hygienie Fresh Milk Co. is increasing its output, raising its price to the farmers, import-ing feed and covs for the farmers and

ing feed and covs for the farmers and helping out in many other ways in the production of good, clean milk. I am not writing this as one interested in the company. I am not one of its patrons, as I had a good market for my milk before they came.

ABOUT THE PLANT ITSELF The plant is situated in a four-storey brick building with a drive-way right around the building. The way right around the building. The machinery is the very finest and latest design, mostly all of it being imported from France, where the process had its origin. I am sorry I am unable to give you an account of the different parts of machinery that constitute the plant.

constitute the plant.

We are proud of this plant, the second, I believe, in Canada, and I hope the farmers. in justice to themselves, will do all in their power to boom it along by keeping good cows, giving the butcher the poor ones, weighing and testing the milk, feeding them well and providing comfortable stables and kind attendance and hence supplying more milk.—F.A.M., Antigonish, N.S.

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thist pere ion three crop deep clear ada sprin clean

Recesses of the new stems. FARM MANAGEMENT

Fertilizer for Corn Profitable

Can fertilizer be used with profit or the corn crop?-P. A., Dundas Co., Ont. The only records that we have of fertilizer experiments with corn are some on swamp soils. These results are as follows

VIELD DED LORD OF COLUMN Plot No. 1 Plot No. 2 Plot No. 3 Lhe Lbs. 4,900 3,790 4.650 2..2,730 3.390 9 180 ..2,780 9 090

1.400 The plots were one-tenth acre The plots were one-tenth acre in size and were fertilized as follows: Plot No. 1, 200 lbs. muriate of potash per acre; No. 2, 200 lbs. muriate of potash and 400 lbs. Thomas phosphate per acre; No. 3, no fertilizers.

We have had other experiments with corn on ordinary soils, of which the statement was made that where no mineral fertilizers were used the corn was poor; it grew well and gave a big stalk, but did not produce large ears of good quality. They reported there being a very high percentage of nubbins, whereas, where the minnubbins, whereas, where the min-eral fertilizers were applied the cobs were large and well filled.

THE CROPS THAT GIVE RETURNS In addition to this, I might just state that no one can say that fertilizers cannot be used profitably on corn; in fact, I believe it is one of the crops on which these materials can be used with profit. It is on the can be used with profit. It is on the heavy feeding, large growing crops that fertilizers will likely give their best results. It stands to reason that a crop like corn will take a large amount of constituents from the soil and, naturally, if it is going to give the best returns, it must have a large amount of available food.

It is true that cuitivation throughout the season will bring a large amount of plant food into an available condition, but even so, I believe that fertilizers can be used in Ontario with profit, on some soils. We cannot say that they will give good results on all soils, but whether or not these materials will prove profitable has got to be demonstrated by each man under his own conditions. might be all right on one farm, and on the adjoining farm not give paying results.

Last year when I was on the Farmers' Institute train, in going through the country between Cayuga and Wel-land on the Michigan Central, I land on the Michigan Central, I using fertilizers on corn freely. were not able to tell what the fertilizer contained, but they said they were satisfied on the point that they got good results from its use.—Prof. R. Harcourt, O.A.C., Guelph.

To Eradicate Canada Thistle

We have a field hadly infrasted with thistles, from which we harvested this year a crop of oats. We plowed it this last. Did we summer tailow this field last. Did we summer tailow this field mend sowing to plow under before put-ting in fail wheat? Would it be well to work this field, put on a dressing of manure and plant to corn?—E. W. Hyde, Norfelk Co., Out.

The chief safeguard against Canada thistle and all similar deep-rooted perennials is a regular, short rota-tion of crops with fall cultivation. A three-year rotation, including one crop of early red clover followed by deep fall plowing for hoe crops for clean cultivation and a grain crop for the third year, will suppress the Can-ada thistle. We would suggest that you thoroughly work this held next spring, sow to corn or roots and keep clean by constant cultivation, using clean broad shares on the cultivator to cut

Follow the corn off the new stems. Follow the corn by spring grain seeded to clover, and fall plow the clover quite deeply and repeat the rotation.

In case you are going to use this field for fall wheat we would suggest that you cultivate frequently with a broad shared cultivator up to the middle of June and then sow to buckwheat, plowing down in time to work again for fall wheat. Buckwheat is superior to any other crop for smothering thistles.

Cooperation for the Small Farmer

There are three important reasons why the small independent farmer can not get the best prices for his pro-

In the first place, he has but a small amount of any one thing to sell, and it makes very little difference to the dealer whether he gets his small business or not

In the second place, the dealer who In the second place, the dealer who buys his products must also buy from a number of other small farmers, with the result that what he gets in any community is, as a rule, not uniform and must sell as mixed stuff and at a low price: consequently, he cannot pay as much as in many instances the product of the individual farmer is worth

The third condition is that, as a rule, the small farmer has his product at a town or terminal market where at a town or terminal market where, if he does not sell, he is under considerable expense to hold his product or to get it back to the farm.

By cooperation farmers can produce By cooperation farmers can product spect whatever, uniform products. By cooperation in let too intricate selling, they can offer for sale large letter on the few unantities which will attract buyers: us, and it would and by bringing the buyer to then. lawyer to whom they can either sell their product for the circumstances

What cooperation has done for the butter and cheese trade it can do for other products.

Our Legal Adviser

TAXES ON HOUSE.—If a person rents a house and nothing is mentioned in the lease about taxes, is he supposed to pay taxes on the house?—H.S., Halton Co.,

Ont.

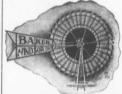
The owner of the house, and not the tenant, must pay the taxes where there is no mention of taxes in the

BARN ON NEIGHBOR'S PROPERTY—When we bull our barn we underatood that one end of it was even with the boundary line of the farm. Our neighbor has recently had his farm resurveyed and we find that the old line fence is in the wrong place and that 10 feet of our barn is on our neighbor's land. He in. sists on straightening the line, which would mean great expense to us in moving the barn. Have we any redress?—E.K., Nijesing District, Our. BARN ON NEIGHBOR'S PROPERTY.

Under the Law and Transfer of Property Act, Chapter 119, where you have made improvements by reason of a mistake through a survey, the real owner of the land is not entitled to same unless he compensates you the value of the improvements.

If your barn has been built for 10 years you need not worry in any respect whatever. The matter is a little too intricate to advise through a letter on the few facts that are before us, and it would be advisable to see a lawyer to whom you could explain all

what is offered, or hold it on their THE 'GAKER' BACK-GEARED WIND ENGINE



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"BAKER" wheels have large numbers of small sails, without rivets, as compared with other makes.

with other makes.

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from ice and sleet.

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will cut squarely in two the cost of cleaning your stables, no matter what method you are now using. It will enable you to keep your stables in a cleaner and more sanitary condition, and with it you can have the manure placed on the field with as little, if not less, labor than is now required to place it in your yard only. By accomplishing these things,

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Beatty Bros., Fergus, Ont.

erhead track, there is nothing whatever to go wrong with it. The BT CARRIER is a marvel of simplicity, and is built to last a lifetime. We show our great faith in it by guaranteeing it absolutely for five years. With no other litter carrier is such a guarantee given.

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

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TORONTO - ONT.

HORTICULTURE

Cooperation in Marketing Fruit

The appetite for fruit is universal. It characterizes all races and conditions of men. Of all foods, fruit is the most natural, wholesome and refined. The appeal it makes is not alone to appetite. but to taste, ameil and the sense of beauty as well. One would imagine, then, that fruit should be of all things the easiest to market, and therefore the most profitable to cultivate

That the real conditions should anywhere be the reverse of this, affords one of the most striking illustrations of the fact that present methods of collecting and distributing the products of the soil are—except in a few instances of recent improvement—altog-wher askew and out of harmony with common sense.

No doubt the abnormal spread of our population, over an area six or eight times as large as that needed for the best development of social economies—thus vastly enhancing the difficulties of cooperation, transportation and distribution—is accountable in a great measure for the fact that, while in the centers of population fruit of all kinds commands enormation prices, millions of dollars worth your processing the farms where

grown.

But that, by cooperative endeavor, all difficulties may be overcome, and fruit brought within the reach of consumers at prices which the multitude can afford, and yet high enough to yied good returns to the grower, is being demonstrated by the successes attending the operations of fruit growers' associations already organized. The success of our Canadian cooperative fruit packing establishments proves that they are meeting this need; at least one side of it. They then they are not proved that they are meeting this need; at least one side of it. They are meeting this need; at least one side of it. They are meeting this need; at least one side of it. They are meeting this need; at least one side of it. They are meeting the need price of the fruit grower to market his fruit at an advanced price.

Small Fruits for Elgin County

What varieties of strawberries, raspberries and blackberries would answer best in a farmer's garden of sandy loam in Eigin County? It is sifialfa sod plowed last spring and in a good state of cultivation. How and when should they be planted?—J.P.T., Eigin Co., Ont.

It is a rather difficult matter to select varieties for another section of country. I would suggest that you learn from cluster which we will be a learn from cheer with the country who have grown strawberries they have found most satisfactory. I made have found most satisfactory, a fixed have found most satisfactory, a fixed where the country has the own peculiarities with respect to varieties which give the best results. In strawberries I would recommend you to try Michael's Early and Early Beauty for extra early; Shendid and Bederwood for second early; Sample, Irene, Parson's Beauty and Williams for main crop. These are desirable commercial varieties. For home use you might add Senator Dunlop, a medium early variety of the very highest quality.

In raspberries, the earliest commercial variety is Marlboro, and when well fed this is a profitable variety. It is a week or more earlier in ripening than the commonly grown variety, Cuthbert. Herbert is a comparatively new variety, a day or two ahead of Outhbert in ripening, more productive but softer and not quite so good in quality. Cuthbert is the standard commercial variety and there is probably no better for general market or home use.

Black raspherries are not grown to any extent for market. If you care to try them for local market or for home use, the state of the former of the state of the former of the state of the

In blackberries, Agawam, Snyder, Eldorado and Kittatinny are the most commonly grown commercial varieties.

All of these fruits should be planted on well prepared, rich ground, well

An Agressive Farm Paper

Farm and Dairy is one of the most aggressive farm journals on record and should receive the patronage of every farmer who is determined to become a progressive and successful farmer.

—P. Bouchner, Norfolk Co., Ont.

drained and free from weeds. As a true, strawberry growers prefer to give clean cultivation for one season before planting, but if you are not atraid of weeds, you might plant on ground plowed from sod. Strawberries are planted in rows four feet apart and the plantes are set from two to two and a half feet in the row. Raspherries are planted in rows seven or eight feet apart and the plants two or three feet apart and the row. Strawberry plantare set on the level. Raspherries and blackberries are usually set in the furrow.—Prof. J. H. Crow, O.A.C., Guelph.

A Chatty Letter From N. B.

G. E. Martin, Deer Island, N.B.
There are great possibilities for
fruit growers in New Brunswick, especially in Charlotte Co. The climate
in winter is mild, seldom going below
zero. The salt water takes the severe froat from the air. The islands
on the coast are very rocky around
the shore, but possess rich and fertile
valleys. Even close to the shore we
see apple trees thriving well in the
fishermen's yards without cultivation

or pruning.

We have an orchard of 459 trees.
The last few years we have begun to pay attention to the modern ways of fruit growing. We have used Bordeaux mixture with good success. As a result of its use very few apples were scaly or wormy. As we are surrounded by water we are less subject to disease on fruit trees, the oyster shell, or bark house, being our worst pest. We expect to spray early next spring with lime sulphur on trees which have lies.

We prune our trees in the fall and spring, but will pay more attention to that work in the future.

CULTIVATING CIVES BRET RESULTS.
Cultivation seems to be of all things most important with us. The sod here grows very thick and heavy on gravel and clay loam. We plow in the fall and spring and have no difficulty with winter killing.

For fertilizer we use a light dressing of refuse fish from the sardine factories, which is cheap and effective. In part of our orchard is a hea yard. A Leghorn will do her part in cultivating every time. Our best varieties are King, Bethel,

Our best varieties are King, Bethel, Baldwin, Fameuse and summer fruits such as Astrachan and Gravenstein. The last few years we have been doing some top grafting, which has been very successful and brought in a better class of fruit.

ter ciass of fruit.

There is a quick sale for a good article, but a poor quality apple goes slowly.

All kinds of small fruit thrive well here, such as strawberries, raspberries, cranberries.

Fully seven-eighths of the people on our island derive their living from fishing, as the best inshore fishing on the coast is about these islands. Any industrious man who wishes to farm can make a good living here. Land ranges in price from \$10 to \$15 an acre.

About Purchasing Fertilizers

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W. P. Gamble, B.S.A., Wellington Co., Ont. It is usually far wiser and far more

It is usually far wiser and far more economical to purchase the fertilizing digredients needed singly, and to do the mixing at home rather than '19 buy mixed fertilizers. It is also bester to buy a high grade fertilizer than a low grade, for by doing so one saves the additional cost of packing, transportation, etc. It is more economical to purchase one ton of high grade fertilizer than three tons of low grade.

high grade terthiner than three tons of low grade, the three in purchasing that the finer ground and the drier the substance be, the greater its value. Thus, the value of ground rock phosphate, the dust, or ground rock phosphate, the dust of the price of the ness of the purchased particles the more available and readily soluble the material. The greater the amount of moisture, the less the 'amount of fertilizing ingredients.

APICULTURE

Inspect for Foul Brood

It is simply impossible for the Ontario apiary inspectors to visit all apiaries every spring, and five minutes to each colony every year would easily tell the owners if any very serious trouble is in evidence. Yet many beekeepers will not look into a brood nest from year to year, and the first thing they know their bees may have contracted foul brood badmay have contracted foul brood badley months a look over the combs a lever most a look over the combs a lever most and the might have saved a lot of trouble.

a lot of trouble.

"Last aummer I was sent to inspect an apiary," writes Wm. J. L. Byer, York Co, Ont., in "Gleanings," "and on examination I found all the bees rotten with American foul brood. I learned that a few years ago they had been in the same condition and had all leen treated. The trouble had not been entirely eradicated, and had gradually got so that the latter condition was worse than the former. The owner seemed to know the disease all right; and when I questioned him as to why the yard was in such a condition, and saked why he had not experience the man of the control of

"I suppose the man never thought that such a thing as examining every pairs hill from the such as the



Maple Evaporator

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

Steel Trough & Machine Co., Tweed, Ont.

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Poultry Expert Leaving Canada Canada is about to less one of its best educationalists along poultry lines. Prof. F.C. Elford, of Macdonald College, who is well know of the poultry department of Farm and Dairy, is leaving his position at the College to conduct the educational bureau of an incubator company in Buffalo, New York State. He will take up his new duties about January let.

take up his new duties about January 1st.

Professor Elford has for years been one of the forement agricultural educational works in Canada. Not only has he strive: 'to create greater interest amongs: farmers for more and better poultry, but he has also taken a feesunest part in advocating the more described by the control of the cont methods of getting poultry produce to the consumer.

to the consumer. It is unfortunate that Canada is to lose Professor Elford. The poultry industry in Canada is in need of the contained work of such men, and those of us who have the good of the poultry industry of Canada at heart will give Professor Elford a warm will give Professor Elford a warm to again take up his work in Canada.

those of us who have the good of the populary industry of Canada at hart will gire Professor Elford a warm welcome does he ever decide to return to again take up his work in Canada. Bearing the second of the property is at the rate of \$8,00,000 paid for this property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 paid for this property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and the property is at the rate of \$8,00,000 and and the property is at the rate of \$8,00,000 and and the property is at the rate of \$8,00,000 and and the property is at the rate of \$8,00,000 and and the property is at the rate of \$8,00,000 and and and the property is at the rate of \$8,00,000 and and and the property is at the rate of \$8,00,000 and and and and the property is at the rate of

Poultry Expert Leaving Canada
Canada is about to lose one of its space with a frontage of 60 freet on space best educationalises along poultry lines. Prof. F.C. Elford, of Macdonald Life resold this building and program in Canada, and especially to our readers, as he at one time edited the poultry department of Farm and Dairy, is leaving his position at the building of the poultry department of Farm and Dairy, is leaving his position at the building of the property of the property of \$290,000. This means that in about a year and a half they have more property of \$290,000. During that time they did nothing to increase the value of \$290,000. During that time they suffer the property, and practically nothing the property, and practically nothing



The Lawlor Building, To onto

to improve the building. crease in value has been brought about solely by the increase in the population in Toronto, and by the in-creased demand for real estate there.

taxation of land values. Were this acre of land taxed according to its value, assuming the whole acre to be as valuable as the lot in question, it would pay as much taxation as 106.66 acres of farm land valued at \$160 an

acre.
The farmers' deputation that went to Ottava last December told the Dominion Government that the farmers were ready to submit to direct taxation of land values to make up the revenue the government might lose by taking off the duty on articles farmers might buy. In the light of such facts as these, do you not think that they were wise? In the Westers provinces where the

In the Western provinces where the farmers are organized and are talking these things over among themselves, (Concluded on page 15)

S3 a Day Sure and us your address and us your address and us your address to make it is done you for the same and us address to make it is a desirable the work and teach you from your work in the locality where you live. Bend us your address and we will applied the localities fully remember by guestancies a date point of \$5 for every the business fully; remember we guarantee a clear profit of \$3 for every day's work, absolutely sure, write at once.

BOYAL MANUFAUTURING CO., Bog 2715, WINDSOR, ONE

Fow A Pair of Pure Breds will be given you free in return for only four New Subscriptions to Farm and Dairy, each taken at only \$1 a year. Tell us which variety you would like.

FARM AND DAIRY, Peterboro, On

LIVE

For best results ship your Live Poultry to us, also your Dress-ed Poultry, Butter and Eggs.

Crates Supplied. Prompt Returns The DAVIES Co. TORONTO

FOR SALE AND WANT ADVERT 'NG

TWO CENTS A WORD, CASH WITH ORDER FOR SALE—Few black single comb cockerels, \$1.00 each.—Joe Hopps, Campbell-ford, Ont.

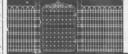
FOR SALE—Iron Pipe, Pulleys, Belting, Rails, Chain Wire Fencing, Iron Posts, etc., all sizes, very heap. Send for list, stating what you want. The Imperial Waste and Metal Co., Dept. F.D., Queen street, Montreal

AGENTS We will pay you well to hustle in your district for new sub-scriptions to this practical journal. PARM AND DAIRY, Poterboro, Ont.

Strength and Service

That's what you get in Peerless Gates-thestrength and service that keep them swinging evenly on their hinges year after year. They won't warp or sag because the frames are made of heavy, steel tubing, electrically welded into one solid piece.

Peerless Farm and Gates



We manufacture lawn, boultry and farm fences and gates. We build them so they will last long and give the most satisfactory service. Our standard of quality is high, and we stick to it firmly. You can always depend on Peerless goods. Write for full particulars.

THE BANWELL HOXIE WIRE FENCE CO., LTD. DEPT. H , WHRIPER, MAN., HAMILTON, OFT.

Don't sit by the fire

You can't work in the orchard these days, of course, but that is no reason why you should waste all the winter months. We can help you put them to good use.

It is easy to sell "Brown's trees" because everybody knows that "Brown's Trees are good trees." It is pleasant work selling "Brown's trees" because you get all around the county seeing old friends and making new ones. It is instructive work selling "Brown's trees" because it gives you a chance to exchange ideas with other good fruit growers. It is profitable work selling "Brown's trees" because you get liberal commissions on your orders.

Just cut out this ad., write your name and address on it, and mail it to us. We will do the rest.

Brown Bros. Co., Nurserymen, Ltd.

Brown's Nurseries

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FARM AND DAIRY ing to set some higher ideal and Department of Agriculture. There is Fat cattle, hogs and sheep are all

AND RURAL HOME

(10)

Published by The Rural Publishing Com-

OR WIND 1. FARM AND DAIRY is published every bursday. It is the official organ of the fritish Columbia, Manitoba, Eastern and Vestern Ontario, and Bedford District, luebee, Dairymen's Associations, and of

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WE INVITE FARMERS to write us on agricultural topic. We are always need to receive practical articles.

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subscription rates. Thus our mailed lists
do not contain any dead circulation
and the subscription of the subscription and the subscription and the subscription into the paper, showing its distribution by c-units and provinces, will be
mailed free or request.

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OUR PROTECTIVE POLICY
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to feel that they can deal with our advertion of the property of the property of the control o Dairy within one week from the date aby unsatisfactory transaction, wil proofs thereof, and within one more from the date that the advertiseme appears, in order to take advantage the guarantee. We do not undertake adjust trilling differences between rea ers and responsible advertisers.

FARM AND DAIRY PETERBORO, ONT.

WHAT ARE WE AIMING AT?

Aiming at nothing and hitting it. This expresses accurately the position of many of us in the journey of life. We start with the old homestead, the old methods, the old ideas, and we end just there; or even lower down in the scale. We have aimed at nothing. And we have hit it.

The man who gets on in the world, whatever his occupation may be, is the man who has some ideal, who is aiming at something and who is directing all his energies towards its Canada, Dr. Rutherford has done for consummation. the old year and the beginning of the try a service, the value of which it would show more clearly than can be new is a good time for introspection, for looking into ourselves and seeing ing out the internal inspection work, if we have any clear and definite Dr. Rutherford was largely instru- laws that are rendering farming on ideals; or have we been aiming at nothing and hitting it?

If we are not altogether satisfied Act. with the results of our introspection, what are we going to do in the new year? Are we going to drift along in one portion of the valuable work that

strive with might and main to accomplish it?

It is not well to determine to change our methods completely at the new year. Such a resolution is apt to be forgotten by the second day of January. But let us take at least some one thing that we have not been doing but that we know it would be to our advantage to do, and aim to anply that improved practice to our farming during the year.

Those of us who have not adopted cow testing might determine that from the first of January next every cow in our herd has to prove that she can pay for her keep, a profit to her feeder and interest on capital invested or go to the butcher.

If we have not tried alfalfa we might pick out some field on our farm that we know is just suited to that crop and order the seed right away.

The man who has not a silo can make no better new year's resolution than to determine that before the 31st of December, 1912, he will have added this money-making structure to his farm buildings.

A resolution that many of us might make with great big financial results to ourselves would be that from now on we will break away from the old habit of believing that a cow is a cow and start right in for better stock through the use of pure bred and well bred sires.

And have we been making the most of life itself? Or have we gotten into a groove there also and got past the point where we can really enjoy ourselves? Those of us whose interests are bounded by the line fences in our own farms are worse than useless as citizens of the country and are not getting the satisfaction out of life that it was intended that we should.

Let us all determine on the eve of this new year to aim at somethingand hit it.

WILL DR. RUTHERFORD REMAIN?

When Dr. J. G. Rutherford, Dominion Live Stock Commissioner and Veterinary Director General, assumed the duties of Chief Veterinary Inspector nine years ago, the veterinary sanitary service of the Dominion was of a decidedly rudimentary character. In fact it might almost be said that we in Canada had no properly conducted veterinary department. Rutherford immediately began to lay the foundations of what is now the Health of Animals Branch of the Department of Agriculture. In the perfection of quarantine regulations and in the establishment of an efficient of profit they would secure under even veterinary sanitary service for the the best of management would be an control of diseases already existing in Now at the end of the live stock interests of this counwould be hard to estimate. In carrymental in formulating the provisions of the Animal Contagious Diseases ly unprofitable by depriving the farm-

The efficient work of Dr. Rutherford that he creates. as Veterinary Director-General is only the same old manner, or are we go- he has done in connection with the be proud of as a senator.

the Live Stock Commissioner.

It has been rumored for months now that Dr. Rutherford was resigning owing to friction in the Deculture will be given his position.

is at all possible to retain the services done. The live stock interests of the to raise for sale. country cannot afford to suffer the loss of such a valuable commissioner. Should Hon. Mr. Burrell succeed in his action will be appreciated by the live stock men of the Dominion who understand the value of the services he has rendered.

ABOUT DEMONSTRATION FARMS

ed on up-to-date business farming principles. This farm has not yet present management. Already it has the dairy sections of Ontario. produced interesting results. Our contemporary is quite optimistic as to the final financial success of the venture. Farm and Dairy congratulates the "Advocate" on the good work they are doing at "Weldwood." They are operating on the practical basis that governments have frequently been asked to attempt, but which they have always declined to undertake.

There is one respect in which, valuvocate demonstration farm cannot be of only medium quality and attempt rows. to run it under the conditions many farmers have to contend with as regards labor shortage, a mortgage indebtedness and similar drawbacks, we quested that courses of instruction in venture to say that the small margin eye-opener as to the small profits that are possible from farming under present conditions. Such an experiment shown in any other way the necessity of a rearrangement of the economic our medium and poorer lands relativeer indirectly of much of the wealth

not in the Department of Agriculture selling at lower levels than at this a more valuable public servant than date last year. Dairy cattle, however, are in keen de-

Milch Cows mand and at higher Are High prices. On December 1st. 1910, choice milch

partment. With the promised reor- cows were quoted at \$50 to \$70 on the ganization of the Department of Agri- Toronto market. On December 1st, culture under the new Conservative 1911, they were quoted at \$60 to \$90 administration, it may be expected on the same market. Our farmers that the present Deputy Minister will are coming to realize that when feeds sever his active connection with the are high and scarce, the dairy cow Department of Agriculture, and that will make better use of the raw proa man more thoroughly versed in agri- ducts of the farm fed to her than will any other animal, and she alone will If under the changed conditions it pay a good profit on that feed. Dairy cattle are the most profitable to feed of Dr. Rutherford, this should be They are now also the most profitable

Several Ontario dairymen that Farm and Dairy has heard from are saving retaining Dr. Rutherford's services, themselves and their neighbors money by buying feed in car-

Ruying load lots and thus sav-Feed ing the middleman's profit. The plan of

operation most commonly followed is for one farmer who buys considerable About a year ago the Farmers' Ad- feed to go around among his neighvocate, published at London, Ont., bors and take their orders also, and purchased a farm near that city, and thus be able to send away for a carare planning to run it, not as a model load at a time. In one case of which farm, but rather as a demonstration we have heard, eight dollars a ton was farm, to show the good results that saved on gluten meal by purchasing can be obtained from a farm conduct- it in this manner. This system of cooperative buying can be adopted with money-saving, and therefore been in operation one year under the money-making, results in many of

> Have you ever noticed how a kindly word will light up the beclouded face and make the sun to shine in the home even if the clouds

are heavy in the sky Words of Appreciation outside? Too many of us are very chary of

expressing our appreciation of the help that we receive from our mothers, wives, daughters or sons. Many a able as they will be, the results that boy who is wearing out his life in a will be obtained on the Farmers' Ad- city factory would be on the farm today had he received more words of obtained by farmers generally through appreciation from his parents at the application of equally efficient home. Words of appreciation and methods. The Farmers' Advocate kindly sympathy do not cost much, but farm is on rich land. Most farmers they may mean everything in making are working land that is only of life worth while. Let us not be backmedium quality. Were the govern- ward in expressing our appreciation ment to take over and operate a farm of those who share our joys and sor-

> At their last annual session in Toronto, the Ontario Fruit Growers rebox packing of fruit be

Instruction in established in all the Apple Packing fruit growing districts of the province of On-

tario. The adoption of this request would mean much for the furtherance of the fruit industry in Ontario. Ontario fruit growers have proven that they can produce a class of fruit that cannot be excelled. At present they are somewhat handicapped in some markets by not being able to offer the pack that sells in the very highest class market; that is, the fancy box pack. In Western Canada particular-A good farmer has just as much to ly, where people are acquainted with the box pack of fruit from the Pacific er

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coast, Ontario fruit men are at a great disadvantage in disposing of their high grade fruit. The establishment of such box packing courses throughout Ontario would lead to this style of packing being largely adopted for fancy and No. 1 fruit, which at present the most of our packers do not know how to put up. This would be a good line of work for the District Representatives in the fruit producing counties to interest themselves in.

Cooperation, City and Country C. R. Barns, Minnesota College of Agriculture

Whatever advantages the city may claim over the country, either as a place of residence or as an arena for business enterprise, are mainly due to the fact that in the city the principle of cooperation has found a larger development.

The cooperation may be often involuntary, and in many cases the principle has been perverted to the enrichment of corporate and other

What can be advertised successfully to the farmer?

Look up the index to the catalogue of mail order houses, such as EATON'S or SIMPSON'S!

You probably know what this would mean and you can there-fore GRASP the EXTENT OF THE FARMERS' NEEDS.

A prominent mail order man has said:

"The house I represent attends to the needs of a farmer from the hour he is born to the hour of his death. He arises in the morning, disrobes his department. He washes his face from one of our shoes of he had been stands, he pokes up the fire in one of our stoves, he slips his feet into boots from our shoe department, and dons our barn, feeds his horses and cows, comes after feeding time once more to the barn, throws a set of our harness on his team, hitches them to a plow we sold him and makes a few called from the field by the sound of rounds before breakfast. He is re-called from the field by the sound of a bell rung by his wife and supplied

called from the field by the sound of any us.

"He goes through each rotation of his daily duty and we are with him every moment in some manner."

"In gight his wife stings from a song book to the accompaniment of our piano or organ and thus the day ends with contact with our bed, our pillows, our mattress and covering.

furnish his needs, until at last his heirs order from our catalogue the stone which ultimately marks his resting place. This, gentlemen, is the possibility of the fath.

The best possible customers are in the country. To reach them right you will need to use the farm papers

TO GET THE DAIRY FARM-ERS of Canada YOU MUST USE THEIR FARM PAPER,-FARM AND DAIRY.

Just at this season as you are about to enter on the New Year, THINK about this matter

Resolve to GET THIS PROF-ITABLE TRADE, which is yours when you use space in Farm and Dairy,-this paper,-

A Paper Farm ers Swear By"

monopolies; but it nevertheless so permeates all municipal life as to or permeates all municipal life as to constitute the largest factor in the making of the city. The improved roadways and sidewalks, the water supply and sewer systems, gas and electric lighting and heating facilities, the trolley lines, telephone service, parks, libraries, picture galleries, hospitals, express deliveries, cheap amusements and superior school advantages—all are the fruits of a varied population of the "cooperative purior".

of the "cooperative plan."

Cooperation is simply an agreement by a number of men to unite in doing or maintaining something which none of them, individually, would be able to do or maintain. The mere fact of a man's taking up his residence in a city makes him, however involuntarily, a cooperator in all its involuntarily, a cooperator in all its fact of a man apart of the "cost of libriograms" the "cost o

ing" there. ing" there.

The growth of cooperation has been more rapid in the cities because of the multiplied contracts among the number of people there brought together, which have practically forced them to join hands for the general advancement, along some lines; and along others, has made it easy for the corporate and monopolisite beneficiaries of cooperation to levy the tribute charged for the use of their several conveniences — conveniences — which the multitude was not yet ready to multitude was not yet ready to install from its own resources.

WE HAVE IT TOO But today similar contracts But today similar contracts—stimu-lated by the presence of the telephone, the trolley, the daily mails, and all that they imply—are as numerous in many a country district as they were in the city of "ye olden time" before the advent there of the agencies named. And the multiplication of contracts stirs the progressive spirit in the country as it has done in the city. And that spirit can find no outlet like that afforded by the development of cooperation.

velopment of cooperation.

How many are the avenues of beneficent endeavor which center at Co-operation's door! Yet how few of those avenues have we, until recently, tried to penetrate! We have made some beginnings with cooperative tried to penetrate! We have made some beginnings with cooperative elevators and grain-selling; with creameries and egg-selling associa-tions; with live stock shipping and tions; with live stock shipping and stock-treeding associations; with fruit-growers' and market-gardeners unions. But nine-tenths of the busi-ness in the several lines named is still handled on a non-cooperative basis; and this in the face of repeated de-monstrations of the effectiveness of cooperation in securing larger returns to the farmer

FIELDS FOR COOPERATION

The extension of cooperation along these lines may well engage a large share of the new spirit now kindlings. So, also, may the "Good Roads" movement, than which few cooperative undertakings promise more. Such extension will make easier the appli-cation of the cooperative idea to the purchase and use of costly farm mapurchase and use of costly farm ma-chinery; to the creation—where neigh-bors are sufficiently near—of a perma-nent supply of running water; to the common raising, for shipment by the carload, of a single kind of vegetable, a single breed of cattle or hogs, a sin-gle type of horses; to the establish-ment of social and civic centers at ment of social and civic centers at school houses or churches; to the beautifying of country roads with shade-trees and side-lawns; to the establishment of a free government news service, which shall enable the country daily to compete with the city sheet, and thus restore the independsheet, and thus restore the independence and dignity of journalism; to the lightening of the burdens of the farmer's wife by the establishment of the cooperative laundry. The rough which, by cooperation, our people may steam to higher and better living.



Who Says Skates?

We have Skates for every boy and for every girl. They are good skates. They will delight you.

Do you want Hockey Skates or do you want Spring Skates?

We have both kinds. Every boy and every girl who helps us may have a choice of either of these as shown below.



Your choice of either of these kinds of skates will be given free in return for only one new subscriber to Farm and Dairy, to be taken at only \$1.00 a year.

A better pair of Athletic Hockey Skates, of extra quality steel, and heavily nickle plated, for only two new subscriptions.

See one of your Father's neighbors right away. Get him to subscribe. Then write us, sending the subscription, and we will send the skates. We will have the skates to you in a few days.

Which of These Two Kinds Do You Want?



(HockeySkates) (Spring Skates) In ordering skates send the size of the boot in inches from the extreme heel to the extreme toe.

Farm and Dairy, Peterboro, Ont.

S long as a cream separator skims close, it is a good investment.
But one good feature or a few good features do not make a separator that will skim close for any length of time.
good separator is one in which the minor parts have been just as

A good separator is one in which the minor parts have been just as carefully designed and just as well made as the most important parts. A defect in a minor part will, by throwing the entire machine out of adjustment, offset all the perfection attained in any other part of the

IHC Cream Harvesters Dairymaid and Bluebell

Dairymaid and Bluebell

one feature does not overtop all others because the same I H C standard of quality in design, material, and workmanship is maintained throughout. They are the only separators with dust-proof and milk-proof gears which are easily accessible. The frame is entirely protected from wear hybor bronze bushings. These separators have large shafts, bushings, and bearings; the flexible top-bearing is the strongest and most effective found in any separator. The patented dirt-arrester removes the finest particles of dirt from the milk before the milk is separated. I H C Cream Harvesters are made in two styles—Dairymaid, chain drive, and Bluebell, gear drive—each in four sizes.

The I H C local agent will be glad to let you examine one of these separators, or, write near-sets branch house for catalogues and other

est branch house for catalogues and other

information.

CANADIAN BRANCHES: luternational Harvester Company of America
Brandon, Caleary, Education, Hamilton, Leibirder, London,
Montreal, North Buttlefert, Olitava, Regina, Sankatson,
Montreal, North Buttlefert, Olitava, Regina, Jankatson,
Martine Martine, Martine, Parkin,
Martine, Martine, Martine, Martine, Martine,
International Harvester Company of America
Chicango (Incorporated) US A

I H C Service Bureau I H C Service Bureau

The Bureau is a clearing house for Agricultural data. It aims to learn the bes
ways of doing things on the farm, and ther
distribute the information. Your individ
ual experience may help others. Send
your problems to the I H C Service



THE DAIRYMEN'S ASSOCIATION OF WESTERN ONTARIO

Extend to you a very Cordial Invitation to attend THE

45th ANNUAL CONVENTION

WINTER DAIRY EXHIBITION **INGERSOLL**

JANUARY 10 and 11, 1912

\$500 in PRIZES for Butter, Cheese and Dairy Herd Competition with Silver and Bronze Medals

Cheese Buyers' Trophy, valued at \$150.00 for Sweepstakes Cheese

MANY SPECIAL PRIZES

THREE SESSIONS EACH DAY EXCELLENT LIST OF SPEAKERS. Each of which is of laterest to Milk Producers WEDNESDAY AFTERNOON SESSION SPECIALLY FOR FARMERS EVERY PERSON MADE WELCOME. REDUCED RATES ON ALL RAILROADS

FOR PROGRAMS APPLY TO-

WM. WADDELL, Pres. Kerwood, Ont. FRANK HERNS, Sec.-Treas.. London, Ont.

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

Relations Between Maker and Patron

Jos. Keachie, Dezeter, Ia.

Jos. Keachie, Dezeter, Ia.

the quality question, I see him alone. I do not jump on him in a crowd. We must use a little judgment and suggest some method by which he may improve his milk or cream. If it is necessary, go to his home and give him all the assistance we can. Keep him in a good humor and we will make friends for ourselves and the

reamery.

I do not think it is a good plan to go out to a farm and lay down strict rules, tell the patron he must follow these, and expect him to do it. We have to use good judgment when dealing with the farmer. If we see where he is falling down in some one particular, let us try and enlighten him on that subject. Sow a little seed right here and we will reap the harvest. As soon as he becomes en-lightened on that subject, begin on

WHERE OUR INTEREST LIES

I sometimes think we, as butter-makers, are not as interested as we ought to be in the welfare of our patrons. Our interest is first of all

patrons. Our interest is first of all among the patrons of our creameries. Charity begins at home. I am more interested in our creamery at Dexeter than in any other, and as long as I stay here I am going to work to make as many dollars for my patrons as I can, because they pay me to do it. I think it is our duly the patrons as I can, because they pay me to do it. I think it is our duty to work particularly for wages and for self, but also for the interest of our patrons and the dairy business.

The Quality Basis of Paying for Cream*

C. Marker, Dairy Commissioner for Alberta

When I use the term "grading" I do so in the sense of its being the act of sorting, arranging or classifying according to quality. I am but stataccording to quanty. I am but stat-ing a truism when I say that the principle of grading is followed, conrinciple of grading is follows, seconds or junconsciously, wherever ny goods are bought or sold in marning goods are bought or sold in marning is at least Re's where the supply is at least equal to the demand. In markets where, and when, the supply or any one article or commodity is not suffi cient to meet the current demand, where the competition is among the buyers, the principle of grading does not for the time being apply with the same force as in cases where and when the supply is equal to or great-er than the current demand, where the sellers are brought into competi-

the sellers are brought into competi-tion with one another.

It is good policy, however, on the part of the producer or seller to al-ways anticipate the latter condition in the market, as in that case the quality article will find a ready de-mand and sell at a fair price where an inferior product may have to go begging for a buyer at any price. The grading principle and quality basis payment applies in all normal mar-kets, and in a more or less clearly de-fined manner to all products, includ-fined manner to all products, includfined manner to all products, includ-ing those of the dairy.

INTRINSIC VALUE AND SELLING PRICE The markst value, or selling price, of butter is subject to great fluctuations. We find at times a very wide variation in the butter quotations in the same markets, and at the same

the same ma "An address before the Dominion Dairy Conference held at Ottawa, Dec. 6 and 7.

Why do we find, for instance, that Why do we find, for instance, that in some markets butter is selling at prices varying from 20 to 40c a lb.? The intrinsic, or actual food value, nay be nearly or quite as high in one case as it is in the other. Why then the great difference in price? Simply this: There is something quite apart from the intrinsic, or food value, for which the discriminating buyer is willing to pay an additional price, or premium.

This something is what we call This something is what we call quality, and apart from sentimental and local considerations, the quality of butter or, for that matter, of any other product or commodity, may be measured by its suitability or adapta-bility to the needs and purse of the buyer. Butter of a uniform color, well made and tastefully put up, at-tracts the attention of the appreciative buyer and makes a favorable first ive outer and makes a favoration rist impression upon him; it gives evidence of workmanship and of the exercise of care and skill on the part of the producer. If the flavor of the butter is sweet and pleasant to the teste this favorable first impression teste this favorable first impression becomes reinforced by a desire to buy that particular package or lot. If on the other hand, the flavor does not please him he will look elsewhere or to other brands for the quality suited to his needs. This being true. suited to his needs. This being true, and other conditions equal, we find that the flavor is the factor that determines the relative market value of

THE PATRONS CONSULTED

When we first thought of instituting a system of cream grading in the gov-ernment creameries of Alberta we sent out letters to 1,500 patrons of sent out letters to 1,500 patrons of those creameries explaining the sys-tem of payment we proposed to in-stall and asked their opinions on the same. Considering that less than half a dozen letters containing objections and criticism were received from paand criticism were received from pa-trons in answer to the circular, we may assume that the plan outlined appealed to the great majority of on as being fair and generally satisfactory.

The criticisms received may be grouped under the following heads.

(1) The cream haulers are not competent to grade the cream.

(2) Assuming that the grading of the cream is to be done at the cream-ery the patron living a considerable distance from the creamery will be distance from the creamery will be placed at a disadvantage in that the quality of his cream will deteriorate in transit more than the cream furnished by the patrons who live but a short distance from the creamery.

(3) It cannot be done

(4) The grading of the cream would drive patrons away from the cream-

In answer to the first objection it In answer to the first objection it has never been our intention that the cream haulers should do the grading. They morely take the samples and alterwards deliver them at the creamery. The buttermaker at the creamery should always do the grading. Objection No. 2 did not hold good as had been amply proved by the results of the prelimit ary grading work done during the season of 1909 at all the creameries, where the bulk of the creameries, where the same can be considered as the creameries, where the bulk of the creameries, where the same can be considered as the creameries.

the creameries, where the bulk of the cream and the samples received rea-

cream and the samples received reasonable care in transit.

The third objection is as "old as the hills." It has been put forward to check every reform and improvement, but it is not convincing.

(Continued next week)

FOR SALE

Two creameries in Central Alberta. about half way between Calgary and Edmonton. Good dairy district and good paying business. Apply to

BENTLEY, ALTA.

RAAI 0

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Ma to t

My for i tory; the i This in ar duce chees facto when Ou ahon aheae hava test.

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raw expe flavo tor a ing o cans. So whey cepte

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FOR TWO SEVE FOI read Dai

Count a sea the C FARM

FARM

Cheese Department
Makers are invited to send contributions to this department, to ask questions en matter relating to chose making and to suggest subjects for discussion. Address eliterate to the Othose Makers Department.

202222222222222222222222 Satisfied with the Test

Fred McKee. Peterboro Go., Ont.
My opinion of the system of paying
for milk by tost at the cheese icatory? In the first place, I think it is
the fairest vay. A man is paid for
the quality of milk not quantity.
This is the proper basis for payment
in any line of production.

in any line of production.

Pay by test induces patrons to try
to secure a Letter standard of milk.

This helps the cheesemaker to produce a more uniform quality of
cheese. It means much more satisfactory business for the salesman all the buyers are after your factory's cheese.

factory's cheese.

Our factory has paid by test for about 12 years. We find it away ahead of the old pooling system. We have found that it leads us up to the problem of better cows and a higher

test. While acting as auditor for our factory I compared two patrons milk for a month. One man sent 1,132 pounds more milk in the month than the other and by having a lower test just had \$1.10 less money. Had he a right to any more?

The Pasteurization of Cheese Factory Whey.*

F. Herns, Chief Dairy Instructor, Western Ontario

Scientific investigations have shown Scientific investigations have shown that various diseases, especially tuber-culosis, may be transmitted through raw factory by-products. Practical experience in addition to similar in-vestigations points out that many off-flavors (including yeasty, fruity, bit-ter and whey flavors) in cheese may be traced directly or indirectly to returning ordinary factory whey in the milk

Some cheese factories return the whey, the tanks receive little or no attention and the cheese are usually actention and the cheese are usually accepted without much complaint, but this does not prove that the whey did not transmit disease. It does not alter the fact that losses have been occasioned through abnormal fermentasioned through abnormal fermenta-

*An address before the Dominion Dairy Conference, Ottawa, Dec. 6th, and 7th.

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

SEVENTY-FIVE-TON CHEESE FACTORY FOR SALE—Good dairy district. Choese made for local use in city. Ill health reason for selling.—Box W. Farm and Dairy, Peterboro, Ont.

FOR SALE

A cheese and butter factory in Oxford County, making over 100 tons of cheese a season. Plant is now and factory is in the centre of an excellent dairy district. Write Box X.

FARM AND DAIRY, PETERBORO, ONT.

FOR SALE

Cheese factory in Western Ontario.
Good dairy section and site. Good water
and drainage. Excellent curing room and
house. Owner going west.
Apply Box 500.
PARM AND DAIRY, PETERBORO, ONT.

FOIL SALE Up to-date cheese factory one agre land; received its: good velocities of the control of the control

Cheese Department of undesirable organisms through the common whey tank. From a sanitary standpoint and various other reasons, frequent cleaning of tanks is to be commended, but the method followed does not completely eliminate the risk does not completely eliminate the risk does not completely eliminate the risk of spreading organisms detrimental to the quality of the cheese and more especially disease germs likely to in-fect the calves and pigs to which the wher may be fed.

STERILIZATION OF CANS UNCERTAIN If all the patrons could be depended on to sterilize the milk cans, the risk of turning out defective cheese from returning the whey in the cans could be reduced to the vanishing point, but this would not prevent the transmission of disease. It is, how-ever, well known that a certain percentage of patrons neglect this ing. In the absence of live steam, sterilizing the cans is an uncertain sterilizing the cans is an uncertain process. Under average farm condi-tions, boiling water must be depend-ed on, and it often cools before it reaches the can. When old, sour, ill-smelling whey is returned little in-

smelling whey is returned little in ducement is offered to be particular. ducement is offered to be particular.

The patrons continue to insist on having the whey returned (in Western Ontario about 95 per cent of the factories return the whey), and there appears to be no other general practimethod of returning whey except in the milk cans. The pasteurization of milk for cheese making is not likely to be adopted for some years. Pas-teurization of the whey, therefore, has been generally advocated by bacter-iologists and dairy experts as a means of diminishing the dangers from dis-ease germs and the defects referred to Pasteurization is not strictly the proper term as this means heating and cooling, but cooling is not practical under factory conditions and so far as can be seen, is unnecessary.

OTHER DAIRY COUNTRIES PASTEURIZE

OTHER BAIR COUNTRIES PASTEURIZE
Dairy countries, such as Denmark
and portions of Germany, pasteurize
factory by-products, and several states
of the United States have compulsory
pasteurization. New Zealand has also
lately taken up the matter. At the
last Dominion Dairy Conference, paslately taken up the matter. At the last Dominion Dairy Conference, pasteurization of the whey was advocated, but no data seemed at hand dealing directly with the practical side of the question. Simply heating the whey without paying attention to details does not entirely solve the problem.

does not entirely solve the problem.
The results and data obtained during four seasons' work have given some information. In 1907, in Western Ontario, out of 205 factories, five volutarily began heating the whey; in 1908, 23; 1906, 58; 1910, 100; in 1911 about 55 per cent of the factories. In Eastern Ontario, in 1910, out of 938 factories, 126 or 14 per cent practice. tised heating.

KINDS OF WHEY MET WITH

The kinds of whey met with under factory conditions may be defined as follows:

1. Sweet or fresh whey as it comes from the vats, temperature 98 degrees, containing many classes of bacteria, about .18 per cent acidity, .21 per containing many classes of bacteria, about 1.18 per cent acidity, 2.21 per cent to 25 per cent of fat. .85 per cent of casein and albumen, 5.2 per cent of sugar, .7 per cent of ash, and about 93 to 95 per cent of water.

2. Ordinary whey is No. 1 run into tanks usually containing a portion of the mixed whey of many previous days, the whole rapidly becoming sour and fermented in proportion to Recently the neglect of the tanks. collected data shows this kind of whey collected data shows this kind of whey
may contain from 9 per cent to 1.5
per cent acidity—an average of 1.2
per cent, fat in some cases as low as
0.3 per cent—average about .09 per
cent (practically gravity skimmed)
about four per cent of sugar (it is estimated that one per cent or sugar (it is esti-mated that one per cent or over of sugar has been changed to lactic acid); quantities of water and dirt if the wash water is run into the whey

tanks as is a common practice at

NOTE.—In many cases the fat rises, NOTE.—In many cases the fat rises, becomes raneid, the sour whey is drawn from under. Sometimes if the whey is "short" this greasy material may be run into the patron's cans at a temperature of 80 degrees or lower, making them difficult to clean. Under such conditions the tanks are also der such conditions the tanks are also hard to clean, and if no provision is made for disposing of the surplus whey and wash water, this may over-flow near the factory or into nearby flow near the factory or into nearby water courses. Flies are then en-couraged and sanitary conditions around the factory are then difficult to deal with. "A bad example is set the producer." (An effort has been made during the past years to clean most of these tanks oftener.)

3. Skimmed whey is similar to ordi-ary whey, but it contains little or no fat, for when drawn from the vats it is run through a cream separator be-

is run through a cream separator be-fore reaching the whey tank.

4. Casein whey is from the skim-milk (heated to about 120 degrees before coagulation), from which casein is made. It is much the same as

fore coagulation), from which case in is made. It is much the same as skimmed whey, except that it may contain small quantities of sulphuric acid used for precipitating the case in. 5. Properly pasteurized sweet fresh whey is held in the whey tanks over night, heated and kept at high enough temperature for a sufficient time to (1) preserve so far as possible the food constituents; (2) keep the fat evenly distributed, (3) partially or entirely free the whey from disease germs and other undesirable organisms; (4) re-turn the whey to the farm in a condition nearly like that drawn from the

(Continued next week)

Farm and Dairy is the best and most up-to-date farm paper in Canada. I wish it every success.—G. D. Mode, Prescott Co., Ont.



THE SHAPPIES SEPARATOR CO. CALVES RAISE THEM WITHOUT MILK

Winninea, Man

Toronto Ont.



CAMPBELLFORD!

WEDNESDAY, THURSDAY AND FRIDAY

January 3rd, 4th and 5th, 1912

This is to be the place and date of the

THIRTY-FIFTH ANNUAL CONVENTION

Eastern Ontario Dairymen's Association

Be sure and come and hear some of the big men talk on subjects that mean real dollars and cents to the live dairyman and dairy farmer. Special railway rates are arranged for and a big crowd is expected.

Don't miss the Convention this year!

Write to the Secretary for a copy of the programme

H. GLENDINNING President MANILLA, ONT.

T. A. THOMPSON Secretary ALMONTE, ONT.

The shade of the elm trees was

veying party that crossed the Assiniboine that fearful night in November, '79, when only five out of the eight got over. Then the women announced, beating on a dishpan, that di Then the women announced, by beating on a dishpan, that dinner was ready, and every tree and bush gave answer—it was the old miracle of Roderick Dhu's men rising from copse and heath and cairn. Gray-

copse and heath and cairn. Gray-haired men came running like boys, catching at each other's coat-tails, tripping each other, laughing, care-free, for it was Pioneers' Picnic day,

free, for it was Pioneers' Picnic day, and that is the one day when gladness and good-fellowship have full play, and cares and years with their bitter memories of hail and frost fall the play have like a garment. Hungry

from them like a garment. Hungr little boys fell down out of trees, ask ing where was the pie! Little girl

in fluffy skirts stood shyly around until some motherly soul ushered them down the line where she said

there was plenty of room and lots of

Demure young ladies, assisted by young fellows in white aprons, pour-ed tea and coffee from huge white pitchers, making frequent journeys

to the stove over among the trees,

and sometimes forgetting to come back until some one had to go for

There were roast chicken and boiled ham set in beds of crispest let-

good eating .

Hungry

Little girls



O not waste a minute-not a second-in trying to demonstrate to others the merit of your own performance. If your work does not vindicate itself, you cannot vindicate it.

-Higginson

The Second Chance

NELLIE L. McCLUNG

Author of "Sowing Seeds in Danny" (Continued from last week)

(Continued from last week)

Pearl, the oldest daughter of John Watson, a C.P.R. section man living in Millord, Man., receives a targe same of money from the relatives of a young Englishment of the following state of the family. The Watsus are joined by the to educate herself and the rest of the family. The Watsus are joined by the lower schore proves on discinct and circumstance of being a school teacher. Bhe sees that her small brothers are learning bad habits in the yourn and gives up her ambition to be a school teacher and suggested that the sum of the companies of the school teacher and suggested to the children at a country school. To also agrees. We are introduced to the children at a country school to the school teacher and suggested the school teacher and suggested that the school teacher and suggested shinty intentionally strikes with his club Libby Anne Cavers, for the game of shinty, intentionally strikes with his club Libby Anne Cavers, for the game of shinty, intentionally strikes with his cub Libby Anne Cavers, for the garry, but for shinty, intentionally strikes with his cub Libby Anne cavers, for the garry, but for shinty, intentionally strikes in an agerty, but for the second strikes with the school of the schoo

M EANWHILE the boys had dis-posed of their bottles to the 'pie!"

Many type '' Wasn't she a wonder? Did you ment a bountiful supply of gum, over see the beat of old Grandma ment a bountiful supply of gum, licorice, and drug-store candies, and a Union Jack for each one. There was quite a run on bottles before an hour, for the Hogan twins cornered the market by slip-ping around to the alley at the back of the store and securing the bottles that stood in a box in the back shed. Then they came around to the front and sold them again, flags being the consideration every time, for the twins were loyal sons of the Domin-

The drug-store man had bought his own bottles twice before he found out, but it is a proof of the twins' ability as financiers that they und not come back after he found it out. Lots of silly little boys would, but there is an advantage in being twins

Down below the town, on the riverflat, the old timers were getting to-gether. Under a grove of tall elms a group of the older men were re-counting the stirring scenes of the boom days, when flour was ten collars a bag, and sugar twenty-five cents a pound; and the big flood of '82, when the Souris, the peaceful little murmuring stream that now glinted through the trees below them, ran full from bank to bank and every house in Millford had a raft tied to its back door.

In the picnic grounds, which had In the pichic grounds, which had been cleared out for this purpose years before, the women, faded and worn, most of them, with many long years on the prairie, but wonderfully brightened up by meeting old friends. spread their tablecovers on the long, rough tables, and brought out the contents of their baskets.

Mrs. Watson introduced her sisterin-law to all the old friends, who at once received her into the sisterhood, and in a few minutes Aunt Kate was exchaging opinions on lemon pies with the best of them.

Then, speaking of pies, some one recalled Grandma Lowry's vinegar pies—that triumph of housewifelv art, whereby a pie is made without

'spie!'

"Wasn't she a wonder? Did you of chicken jelly with sprigs of young over see the beat of old Grandma celery stuck in the top. There were



Possibilities in Improving an Old House Exemplified

Who would believe that the attractive farm house here illustrated is an old log house remodelled? This house, the kome of Mr. Wm. Wightman, Glengarry Co., Ont., has been made comfortable and attractive without great expense to the owner. Note the attractive planting of trees and shrubbery and the well beep lawn—surge factor is making the ountry home beautiful.

were attain the sumbers, and the vinegar "I bought some of the vinegar just to-day," Mrs. Slater said. "I thought it would be nice to remember her that way. She brought me over two of them the first Christmas over two of them the first Christmas over two in the country. I never will we were in the country. I never will forget Grandma Lowry."

forget Grandma Lowry."
A little old woman in black stopped cutting the cake suddenly and looked up. Then she began to speak in a slow, monotonous voice. "She came up. Then she began to speak in a slow, monotonous voice. "She came to me," she said, "when my three boys were down with diphtheria in the dead of winter, and sat with my little Charlie the last night he was on earth. I says to her: "Lie down. Mrs. Lowry—she'd been up two nights already—but she says—I'll never forget just the way she said it—she says: "Mary, I helped little Charlie to come into the world, and

Lowry?" they asked each other, look; infinite varieties of salads and jellies ins up the hillside where they had land pickles; there were platters full last her the year before, and hush-of strawberry tarts, made from last of strawberries which had were afraid that they might disturb been kept for this very occasion: been kept for this very occasion; there were apple pies covered with a thick mat of scalded cream. There was Mrs. Motherwell's half-hour

was Mrs. Motherwell's half-hou-cake, which tradition said had to be cake, which tradition said had to be beaten for that length of time "all the one way"; there were layer cake, fig cake, rolled jelly cake, election cake, cookies with a hole, cookies with a raisin instead of a hole; there were doughnuts, Spanish bun and gingerbread. No wonder that every one ate until they were able to eat no

more.

Pearl helped to wait on the others.

Danny did not say a word, but
just laid about him. At last he called Pearl to him, and, in a muffiled
whisper, asked: "What is there now
that I haven't had?" Pearl then
knew that he was approaching the
high-waite mark.

tions to mingling with her fellow-men at picnics, and having persuad-ed her to come and see for herself if picnics were not a good thing, Pearl felt responsible for her enjovif it so be that he's goin' to leave it. who's got a better right than me to be with him?" getting smaller and smaller as the sun rose higher, and some of the old ment of it timers were sitting in the sun before they noticed it, so interested were they in Mr. Slater's story of the sur-

Pearl had some anxious thoughts Pearl had some anxious thoughts on the subject of a proper dress for Martha for the picnic, when she found that her best summer dress was a black muslin, which to Pearl seemed fit only for a funeral. She wondered how to bring tor-ward the 'subject without appearing rude, when Martha saved her from all further anxiety one did not seen and the second

all further anxiety one day by com-ing over to ask her to help her to pick out a dress from the samples she had sent for. The magazine had she had sent for. The begun to bear fruit.

They decided on a white muslin with a navy blue silk dot in it, and then Pearl suggested a blue ribbon girdle with long ends, a hat like Camilla's, a blue silk parasol, and

long blue silk gloves. When Pearl saw Martha the day of When Pearl saw Martha the day of the picnic, it just seemed too good to be true that Martha could look so nice. She had braided her hair the night before and made it all fluffy and wavy, and under the broad briju of her blue hat it didn't look the colour of last wear's bases. Pearl colour of last year's hay at all Pearl thought. Martha herself seemed to thought. Mattha hersen seemed to feel less constrained and awkward than she ever did before, Mrs. Fran-cis would have called it the "leaven

of good clothes.

Pearl was wondering what she was going to do with Martha, now that she had got her there, when she saw Arthur Wemyss, the young English-

She took him aside and said: "Arthur, you are the very fellow I want to see. I've got Martha Perkins with me to-day, and she's pretty shy, you know-never been to any of these picnics before and I'm so busy bichies before—and I'm so busy looking after all our young lads that I haven't time to go around with her. Now, I wonder if you would take her around and be nice to her. Martha's just a fine girl and young, too, if she only knew it, and she should be hav-

only knew it, and she should be having a good time at picnics."

Arthur expressed his willingness to be useful. He would be glad, he said, to do his best to give Miss Martha a pleasant time.

And so it came about that Arthur. in his courteuos way, escorted Martha through the throng of picnickers, through the throng of picnickers, found a seat for her at the table, and waited on her with that deference that seems to come so easy to the

that seems to come so easy to the well-bred young Englishman. Arthur was an open-hearted young fellow, and finding Martha yery sympathetic, told her about his plans. Thursa was coming from England in December to marry him, and he was going to have a house put up just as soon as the harvest was over. His father had sent him money, and so he was not depending entirely on the harvest. He showed her the plan of the house and consulted her on the best position for the cellar door and best position for the cellar door and the best sort of cistern. He showed her a new photo of Thursa that he had just received. She was a fluffy-haired little thing in a much befrilled dress, holding a fan coupettishly be-hind her head. Martha noticed how fondly he looked at it, and for a mo-ment a shivering sense of disap-positives; see he see of disappointment smote her heart. pointment smote ner neart. But she resolutely put it from her and feasted her eyes on the lovelight in his, even though she knew it was the face of another woman that had kindled it.

another woman that had kindled it.
Arthur was a wholesome-looking
young man, with a beaming face of
unaffected good-humour, and to Martha it seemed the greatest happiness
just to be near him and hear his
voice. She tried to forget everything save that he was here beside
her, for this one dear sweet afternoon,

(To be continued)

they nut dow littl mile D and

> stor it s food adv I saw whe Lor mei

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an nut it. bet ski



Rev. Mr. Lord's Pets

How would you like to have a chip-How would you like to have a chip-munk and a squirrel so tame that they would come to you in the woods when you called them and not only eat out of your hand, but pull nuts out of your mouth, and run up and down your arms and shoulders? That is what Rev. Mr. Lord, the Church of England clergyman, at Apsley, a little village in the north country, 42 miles north of Peterboro, has.

Recently while an editor of Farm and Dairy was in Apsley, Rev. Mr. Lord invited him with a lady and gen-Lord invited him with a lady and gen-deman friend, to accompany him to the woods in order that they might see his pets. On the way Mr. Lord explained that as it was the season of the year when the chipmunks were storing food for their winter supply, it sometimes required a little time to it sometimes required a little time to find them, as they frequently ranged over a considerable area for their food. On reaching a secluded spot in the woods, our editor and his friends waited behind while Mr. Lord advanced calling "Chippy," "Chip-py," "Chippy."

In the course of a few minutes we a chipmunk racing through the bushes and along a fallen log towards where Mr. Lord was standing. On finding that his pet was near, Mr. Lord sat down with his back to a stump. He placed a peanut in each stump. He placed a peanut in each ear, and one in his mouth. In a moment or two we saw the chipmunk jump over a fallen log to the stump, run across it, and jump on to Mr. Lord's shoulder. He seemed to know



Good Friends

By dint of much perseverance Rev. O. Lord, a minister in Peterboro Co., Ont., has cultivated the friendship of some of the wild creatures of his neighborhood. In the illustration he has in his hands one of his wild friends a chipmunk. Kindness attracts every time

just where to look for his feast for in nust and he pulled one of the pea-nuts out of Mr. Lord's ear, sat up on his shoulder and commenced to eat it. This finished, he ran and helped himself to the peanut that was held between Mr. Lord's lips. This he put in one of his pockets, which in the case of the chipmunks is the loose skin on each side of their mouths. He then took the other peanut and stored then took the other peanut and stored it away on the other side of his mouth and darted off towards his

Much Joy is Wished These Two, Soon to be United

The wedding is announced for Dec. 30th, 1911, of Miss Laura Rose, Guelph, Ont., to Mr. W. F. Stephen, Huntingdon, Que. The ceremony

will take place at the residence of the bride's mother in Guelph.



These two people are among the best known fig-ures in the dairy world in Canada. Miss Rose as Instructor in Home Dairying at the On-tario Agricultural College, as



tario Agricultural College, as an Institute Lecturer, and primarily for her work in connection with the Travel-ling Dairy in several provinces, and more latterly through her new book, "Tarm Dairying," which is meeting with a wide sale, has made friends of thousands in Canada and many in other countries who have benefited from her work. from her work.

from her work.

Mr. Stephen through his work as an institute speaker, Secretary of the
Canadian Ayrshire Breeders' Association, Secretary of the Montreal Milk
Shippiers' Association, as an expert judge of dairy cattle at important
exhibitions throughout Canada and in the United States, and as a contributor to the agricultural press and as associate editor of the old Canadian Dairyman—now Farm and Dairy; has come in close touch with and
has rendered a large service to thousands of Canadians interested in

Dairying. join in heartiest congratulations to Mr. Stephen and in wishing All will join in heartness congratuations to Mr. Stephen and in wishing Mr. and Mrs. Stephen (soon to be) God speed and much joy. Shortly after the New Year they will return to Huntingdon, Que, where they will occupy a new house, that is reported to be a model in convenience and arrangement, and where we feel safe to say their many friends will always find the latch string out.

them.

Soon he was seen racing back gain. This time Mr. Lord held the eanuts in his hands. His little pet back again. again. This time Mr. Lord held the peanuts in his hands. His little pet not finding them in their customary place, soon discovered where they were located, and this time helped himself to three. Two of these he stored in the pouches in his mouth, and the other he carried between his teeth. Thus loaded with three large peanuts he raced away again to his nest.

NOT AFRAID OF VISITORS When Mr. Lord asserted that the chipmunk was so tame that he would not be frightened by us, each of us in turn went over and sat down beside Mr. Lord and enjoyed the novel ex-perience of having "Chippy" pick the peanuts out of our hands. Our young lady companion was so frightened when he first jumped on her that she when he hist jumped on her that she uttered a little exclamation of fright, which startled "Chippy" so much that he raced off in alarm, but soon returned for another nut.

Mr. Lord told us that he and"Chip Mr. Lord told us that he and Canpy" had been friends in this way for about six years. At one time there were three chipmunks, one of whom used to enter his study and sit on his left hand and eat nuts while Mr. Lord was busy writing with the other hand. was busy writing with the other hand. Two of the chipmunks disappeared, however, and he feared some cat or weasel must have caught them. While we were talking, Mr. Lord told us that he had taught a red squirrel to eat out of his hand also, but he too had disappeared. Just then, to our delight, we saw this red squirrel rushing through the bushes towards Mr. Lord. He refused, however, to approach nearer than about 15 feet to where Mr. Lord was stand-15 feet to where Mr. Lord was stand-

Mr. Lord placed some peanuts on the stump, which his friend, the squir-rel, helped himself to. Unlike "Chipred, helped himself to. Unlike Chippy," however, he did not have pockets in his mouth and, therefore the time, which mouth and, therefore at a time, which nest. When he returned Mr. and was standing quite a little arear to the stump. He chattered and scolded at Mr. Lord, but finally came and took a nut and raced away to his nest with it. Time did not permit us to wait until Mr. Lord entirely regained the confidence of his friend, but Mr. Lord told us that in another hour he could have the squir-

home in the ground, where he stored rel eating out of his hand just as formerly. Sometimes the squirrel and the chipmunk, he said would eat out of his hand at the same time.

This story shows how easy it is to gain the confidence of these wild to gain the confidence of these wild creatures, when kindness and pati-ence is used. If any of the little boy and girl readers of Farm and Dairy have any tame squirrels or chipmunks like this, that run wild in the wood, will you not write and tell us about them?

What You May Do Profitably

Women folk often do not have much to say about the kind of stock kept on the farm, but it is plainly evident that they often think a lot and wonthat they often think a lot and won-der why it is that the men are unable to more greatly prosper. The cause often rests with the live stock. If this is so in your case you may apply the remedy. Farm and Dairy offers in return for new subscribers pure stock as well as a varied list of val-uable premiums most useful in house-work.

Our circulation department Our circulation department will lend every possible assistance to those of our readers who will try for new subscribers. The girls and the boys could get out after new subscribers as other girls and boys have done most auccessfully and for their efficie win splendid prizes. All interested read-ers are requested to communicate with our circulation department and with our circulation department and to get busy right now after the new

Easily Made Money

(Concluded from page 9) they are wide awake to the importance of this question. It is about ance of this question. It is about time the farmers of Ontario organized, time the farmers of Ontario organized, as have their brother farmers in the west, in order that they may secure the reforms that will never be obtained through either political party as long as our farmers are unorganized as they are now. While the piece of land here referred to is possibly the most valuable in the Dominion, it serves to give an idea of how certain classes of the communities are amountaining for themselves

ity are appropriating for themselves wealth that farmers mostly create but never see. Put on your thinking caps, brother farmers, and decide what we had better do.

It pays to advertize. Try it.

GRAND TRUNK SYSTEM

THROUGH TRAIN SERVICE AND PULLMAN SLEEPERS

Between TORONTO and PORCUPINE

NORTHBOUND-First train leaves Toro to 8.30 p.m. Dec. 2nd, arriving South SOUTHBOUND—First train leaves South Porcupine 12.30 p.m., Dec. 3rd, arriving Toronto 7.30 a.m. following morning.

The Attractive Route to

WINNIPEG AND WESTERN CANADA

IS VIA GRAND TRUNK AND

CHICAGO

Steamship tickets on sale via all lines Make your reservations early.

> Full particulars from Grand Trunk Agents

Well DRILLING **MACHINES**

Over 70 sises and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse powers, Strong, simple and durable. Any mechanic can operate them easily, dend for catalog, WILLIAMS BROS, ITHACA, N.Y.

OLD COUNTRY DOMESTICS

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

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

cure useful articles of house-hold furniture, clocks, dishes kitchen utensis, books, etc., by seeing their friends and neighbors and getting them to sub-scribe to this paper. Cash commissions allow-o on new subscribers. Get us 25 new sub-scribers at only \$1.00 a year and we will pay you \$15.00 cash.



SYNOPSIS OF CANADIAN NORTH-WEST AND REGULATIONS

ANY PEEGON who is the sole head of a family, or any male over 18 years old, may homested a quarter section of available of the sole head of a family, or any male over 18 years old, may homested a quarter section of available of the sole of the so

of intending homesteeder.

Duties—Sin months' residence upon and cultivation of the land in each of three years. A homesteeder may live within years and the land in each of these years and the land in each occupied by him or by his father, mother, son, daughter, brother or sisten. Good standing may pre-supply a quarter-section alongside his homesteed. Price 33.0 per acro. Duties—Stuat reside upon in each of three years from date of homesteed entry including the time reach of three years from date of homesteed entry including the time reach of the price of the passent and cultivate fifty acres extra.

A homesteeded red, as extract the contract of the passent and cultivate fifty acres extract.

cuitivate fifty acres extra.

A homesteader who has exhausted his homestead right and cannot obtain a pre-emption, may enter for a purchased homestead in certain districts. Price \$3.00 per acre. Dulice—Must reside six months in each of three reliefs are most acres and erect a house worth \$500.00.

norse and erect a nouse worth \$300.00.

W. W. OORY,
Deputy of the Minister of the Interior.

N. B.—Unauthorised publication of this advertisement will not be paid for.

Household Suggestions

Cold weather is upon us, and with it the time for putting on storm-windows and doors

Remember to have at least one storm-window in each room, hung on hinges so that it may be opened to admit fresh air.

Beds, bedding and sleeping rooms should be aired each day during the winter months, as well as during the warmer weather.

Opening opposite windows in the Opening opposite windows in the living room occasionally, during the day, will change the air of the room, and be a benefit especially to those

who must remain indoors most of the

Don't forget to have the windows in the kitchen easily adjustable. A goodly supply of fresh air is necessary to the comfort and efficiency of sary to the comfort and emciency of the persons working in the "labora-tory" so closely connected with the welfare of the home. Sprinkle a soft cloth with coal oil

Sprinkle a soft cloth with coal on and rub the window glass with this: Allow it to remain on a short time then wipe the class with another cloth, and finally polish with either another cloth or a piece of soft paper.

Glass preserve jars are perhaps the test and most convenient of all con-

tainers for small quantities of almost any food material.

Many household utensils as well as

tools will rust if exposed to damp air or if kept near salt. This may air or if kept near salt. This may be prevented by applying to the article a paste made by melting a pound of tallow to which is added half a pound of graphite and two ounces of camphor gun. Remove all dust from the article with kerosene and wipe perfectly dry. Then apply the paste and allow it to remain cu for twenty-four hours or longer. Wipe dry, and though no traces of the preparation may remain; its the preparation may remain, its effect is such that the article will be

free from rust for several months,

free from rust for several months, unless it should lie on the ground or be exposed to the weather. A very thin coating is all that is necessary. Put a teaspoonful of mustard in the dish in which fish has been cooked, parily fill with warm water, and let stand for a few minutes. Scrape and rinse, and no odor will remain. If the rinse, and no odor will remain. rinse, and no odor will remain. If the hands are first rinsed in a little mus-tard water, and then washed, the dis-agreeable odor that remains from washing dishes in which fish have been cooked will at once entirely disappear.

Renew your subscription to-d.y.



1249) }

Embroidery Designs
Designs illustrated in this column will be furnished for 10 cents each. Illustrated the state of the st



608 A Design for Embroidered Wreaths Transfers for one wreath nine inches in depth and for two wreaths six inches in depth are given.

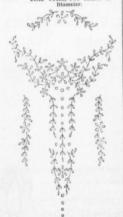


610 A Design for an Embroldered Table or Dresser Scarf.

Two ends fourteen inches wide are given



Design for an Embroidered Center Cloth Twenty-Two Inches in 615



Embroidering an In-616 Design for Embroidaring fant's Robe Dress. Yoke, Front, Transfer Patterns for Sleeves and Neck are given.

Farm Well Water

Prof. R. Harcourt, O. A. C., Guelph. The water of shallow wells will be pure or impure as the soil around them is pure or contaminated. This is not true of water from wells drilled into the rock, provided the well is properly cased to prevent the surface water getting into it; but it is ab-solutely true of the shallow dug well. An ordinary well is but a hole in the ground, and, naturally, it collects the seepage water from the surrounding soil. Consequently if this soil is sat-urated with foul and polluted matproperly cased to prevent the surface ters, the water that passes through it will be contaminated.

The earth is naturally a good pur-The earth is naturally a good purifying agent, consequently a well may be dug close to a water closet, cosspool, barnyard or the slops from the house may be thrown on the ground house may be thrown on the ground near the well, and provided none of it runs directly into the well, the water may not be contaminated. But such may not be contaminated. But such a condition cannot last long. The water from these sources of polwater from these sources or pol-lution doubtless makes its way into the well, but the soil through which it soaked absorbed the impurities and the water passed on pure. It must follow, however, that as time goes on the polluted matters must get nearer and mearer to the well, until finally the soil is so overloaded with impurities that it loses its power of filtering and purifying the water and some of the impure matters, find their way into the well. In such a well there may be a good series of the ready be a good series of the serie the polluted matters must get nearer be a good spring of pure water may but how can the water remain pure all manner of filth is carried into the well in the seepage water? It is be-cause this is prevented in the bored and cased wells that purer water is obtained from them than from the shallow, dug wells. EFFECT OF CLEANING WELL

Sometimes when we have been compelled to report that the results of our analysis of a water lead us to be our analysis of a water lead us to be-lieve that the water is unfit for use, correspondents have asked if they thoroughly clean the well will the water not be all right. It is evident that cleaning the well is a good thing and that it should be done frequently, the state water is contaminated from but if the water is contaminated from the soil through which it passes in getting into the well, it is apparent that cleaning the well, it is apparent that cleaning the well alone will not purify the water. Recently we re-ceived a sample of water from a well dug close to the barnyard. The water at one time was considered a good article, but it had become impure. The barns and barnyard were removed to another location, the well was thor-oughly cleaned and it was hoped that the water would be better. Analysis showed that the water was loaded with decaying organic matter. The well had been cleaned, the barnyard moved, but the soil was still loaded with the impurities which the soakage from the barnyard had been building up for years, and it will probably take years to cleanse the soil again. showed that the water was loaded

WATER BADLY CONTAMINATED. WATER BADLY CONTAMINATED.
During the past summer we have
been asked to analyse more samples
of water from farm wells than usual.
We have not found all the water impure, but the results show that a very
large proportion of it was badly contaminated with decaying organic
scatter. Comparatively few show any matter. Comparatively few show any sewerage contamination and still few-er give results that indicate that the er give results that indicate that the organic matter is directly of animal origin. In most cases the impurities are, apparently, from a vegetable source. Such a water is not necessarily unfit for use, but it contains materials needful for the development for the country of organ-

on from lower levels in such a way as to prevent any seepage water from the surface soil getting into it. We are gradually working in the same direction, our cities and towns are goor cutes and towns are go-ing to great expense to get pure water, and in the country we find every year an increasing number of wells being drilled into the rock. We must get away from the shallow wells if we are going to have the conmust get away from the shallow wells if we are going to have the good, pure water we require and which na-ture has so abundantly supplied for us. These wells may furnish pure water in a new country that is sparse-ly settled, but in the older districts, if we are going to have wells near so buildings, they have a training to have wells near to lower strain and in such a manner lower strata and in such a manner that it is not contaminated with the seepage water from the surface soil.

—O. A. C. Report.

The Truest and Best Cirl.—A great writer has said: "The truest best and sweetest type of the girl to "The truest, great does not come from the home of day wealth, she steps out from the house where is confort rather than luxury. She helongs to the great middle class— that class which has given us the best wifehood; which has given help-mates to the forement men of our time; which teaches its daughters the true meaning of love; which teaches the manners of the drawing room and the practical life of the responsi-well as teaches had on the responsi-tor mother-hood. wealth, she steps out from the motherhood.

THE COOK'S CORNER
Recipes for publication are requested,
include regarding cooking, recipes,
inc., glady answered upon request, inc.
the Household Editor, Farm and Dalry,
Petarbero, Ont.

SPICED CRANBERRIES

One pint of berries, one cup of sugar, one-half cup of water, one-half cup of raisins, one-half teaspoon cinnamon, one-fourth teaspoon cloves, two teaspoons vinegar. Cook slowly and when nearly done add one-half cup of chopped walnuts. A splendid relish for meats.

WHITE COOKIES

One heaping cup of sugar, one heaping cup of butter creamed with sugar, one egg well beaten, half a cup of sour milk, a small half teapoonful of saleratus, four to make a dought that can be rolled. Roll thin continue. and cut into cookies

LIVER CROQUETTES

Wash carefully half a pound of liver and cut it into thin slices. Cover with boiling water and simmer gently for twenty minutes, then drain and chop fine. Rub together until amooth one tablesportial of butter and two of flour, and stir it into a cupful of hot milk. Cook for three minutes stirring constantly and add the liver with a teaspoonful of minced onion, a teas ring constantly and add the liver with a teasponful of mineed onion, a teasponful of salt and a beaten egg. Cook five minutes, allow it to cool, mold into balls, dip in egg, then in bread crumbs, and fry for a minute in hot fat. Serve garnished with parsley.

CANDIED CRANBERRIES

CANDED CHANDRELES
This is one of the most delicious and prettiest ways of using the cranberry, and sepecially good to serve with fowl. Take one quart of berries and select baking pan that will hold them evenly on the bottom so that the berries will not be on top of each other. Cover with ten cups of sugar and water enough to come about one. materials needful for the development of disease and other forms of organisms, and when we realize how easily this water may be containtated with disease we very rightly look disease where with suspicion.

In most of the European countries the sanitary officers have long ago insisted on all ground water being tak-

neceseceseseseseses

The Sewing Room

Pattern Silvente and size. If for children, some for walste, and walst measure for white. Address all orders to the pattern Department.

CHILD'S DRESS WITH BLOOMERS. 7251



The frock that is to match is one of the most practice. the most practical that the little girl can wear. It does an wear. It does away with the need for petticoats and is thoroughly comfort-able and at the same time it is absolutely protective.

For a girl of years of age it dress will require yards of materi 27, 21-4 yards i yards of material 27, 214 yards 36, 17-8 yards 44 inches wide, and 2 yards 27, 13-8 yards 44 inches wide for the bloomers.

This pattern is cut in sizes for girls of . 6 and 8 years of age.

FOUR-PIECE SKIRT, 7238



E SKIRT. 7288
The skirt cut with wide sides and narrow front and back portions is one of the latest sides of the latest sides

that may
For the medium
size will be required
5 yards of material
27, 33-4 yards 36 or
44 inches wide. The
width of the skirt at
the lower edge is

2 3-8 yards.

This pattern is cut in sizes for a 22, 24, 6, 28 and 30 inch waist measure. 26.

GIRL'S YOKE APRON, 7235

WITH HIGH OR SQUARE NECK, WITH OR WITHOUT SLEEVES One apron



can be made in three ways, to give three different ef-fects, is essentially a practical model, a practical and this a practical model, and this one is pretty and dainty as well. Made after the manner shown on the figure, it is adapted to the cook-ing lesson and occaing lesson and occa-sions of the kind.
For the 8 year size will be required 41-2 yards of material 27, 23-4 yards 36 in-

made

be

ches wide.
This pattern is cut sizes for girls of 8 and 10 years of age.

FANCY PEASANT BLOUSE, 7250



Trimming cut in Vehaped portions is to be noted upon many new and at-tractive gowns. This blouse shows such portions used in an exceptionally desirable way and makes an excellent model for the fashionable combinations of ma-

combinations of ma-terials.

For the medium size the blouse will require 2.34 yards of material 27, 2 yards 36, 1.34 yards 44 36, 134 yards 44 in. wide and 73 yard of lace banding to trim as illustrated.

This pattern is out in sizes for a 34, 36, 40 and 42 inch bust.

D

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rib :

********* **OUR FARMERS' CLUB** \$

Cerrespondence Invited PRINCE EDWARD ISLAND

(18)

PRINCE EDWARD ISLAND PRINCE CO, P.E.I. Blichmond, Dec. 16.—Fine weather and good roads are being taken advantage of by the farmers in disposing of their products. Large shipments of hay are sent to Newfoundland and the English markets at \$10 to \$11 a ton. Voluntario markets at \$10 to \$11 a ton. Potatoes are shipped in large quantities to Ontario are snipped in large quantities to Ontario at 52c to 37c a bus.; oats, 44c to 48c; tim-othy seed, 86 a bus.; pork, 7½c; turkeys, 22c; geese and ducks, 16c; chickens, 13c; eggs, 25c; dairy butter, tub, 22c.—J. D.

NORTHUMBERLAND CO., ONT. BRIGHTON, Dec. 19.—At an enthusing meeting of fruit-growers held here the Northumberland Cooperative Fruit Grow-ers' Association was formed, and the fol-lowing officers were elected: President, W. J. Farley; vice-president, G. E. Poet; secretary-treasurer, E. G. Brown. Ex-ceutive-Robert Wade, Dr. C. M. Sanford and S. J. Tinson. R. B. Serpture, who was instrumental in organizing the asso-ciation, was appointed manager This ar-sociation will be one of the lar probably strongest in Cambridge Strategies and the strongest in Cambridge Strategies and the probably strongest in the De-minion.

ONTARIO

ONTARIO
OTARIO CO., ONT.
TAUN'ON.
A by had good sighting Some had not their turnipe in at that time, but the mild week we have had lately gave them a chance to finish up. After a month of winter weather we also see the plow going, but unless it have finished even the new force of the plow going, but unless it have finished even then. Feeding cattle are cheaper than a year ago. Feed of all kinds is searce. Those having a good acreage of corn and a silo are the ones who have the best supply of feed, this will be a supplied to the supplied of the desire of the supplied of the desire of the supplied of the had been supplied to the supplied of the supplied of the hop business.—S.A.N.

WATERLOO CO., ONT. ELATID A

ELMIRA, Dec. 15.—Our local Farmers' Club of West Montrose held its November meeting last Friday, having an attendance of about 200. A debate, "Resolved that meeting last Friday, naving an account of about 200. A debate, "Resolved that Mixed Farming is more beneficial than Specialized Farming," was decided in favor of affirmative. There was also a favor of affirmative. There was also a good programme of readings, recitation, songs and music, and a few speeches by young men, which is a good breaking in. The club appointed its president and one director as a committee to attend the club convention at Galt, but they have not yet reported to the club. The club voted unanireported to the cub. The club voted unani-mously to hold its annual oyster supper on the evening of its regular club night in December; also to have a large Christ-mas tree, with Santa Claus to attend.— A. B. S.

A. B. S.

NORFOLK CO., ONT.
EHIE VIEW, Dec. 8.—The soft, wet weather and the seas of mud are a great detriment to business. Clover seed is being threshed and sells for \$12\$. Poultry has dropped in price; no cold storage convenience at hand. All stock is doing well. Creamery men handles lots of cream. Butter, 56c; eggs. \$60; hogs, \$5.54

BRITISH COLUMBIA

BRITISH COLUMBIA
NEW WESTMINSTER IDST. R.C.
CHILLIWACK, Dec. 8-We are having
fair weather. Nuch fall work is being done
We have had a portion of our winter,
and it is hoped we will not be favored
with any more. Eggs are now 560 a dos.;
hay, 814; butter, 56c; wheat, 845; barley,
827; oats, 825; peas, 840-8.C.

GRACELAND HERD OF HOLSTEINS
The Graceland herd of Holsteins owned
by Elias Ruby, Tavistock, Ont., consists
of some nice animals, such as Belle Mercedes Posoh (1217), a vrise winner in the
show ring. This cow has been shown
twice and won two firsts. She is backed
up with some good records made by her
ya. C. Lailman, Breslau, Ont. in R.
of P. she has given 9,000 lbs., of milk and
has one month yet to complete her recof P. she has given 9,000 los. of milk and has one month yet to complete her rec-ord. Not bad for a two-year-old. Another one is Nanoy Pictorje (12245), whose aire is Dan Posch De Kol, sired by Sir Mecthilde Posch, whose dam, An-

them Jowel Moethilde, made 27 lbs. of butter in 7 down. Pielerje Pride, sired by Prince Biel De Kol, whose dam, Ma-phy Prince Biel De Kol, whose dam, Ma-in 7 days as a two-year-old heifer. Two saters, Fidy Fauline De Kol, 28 lbs. but-ter in 7 days; Belle De Kol Queen 2nd, 15.44 lbs. milk none year. Count Piel-erje Pride's dam, Pride of Canada, gives a large flow of rich milk. Lore Desirie.

A very promising cow is Lucy Dewitt.

Kept as are my ordinary cows, she was
running on pasture in this dry season
and gave about 10,500 lbs. of milk in 71.2

months, testing from three to 3.6 per cent.
fat. Also a daughter of Lucy Dewitt.

but in a second of the herd is the notes but in amed Vaman Beauty Hartog (250). I have the records in black and white of over 100 cowe closely related to this bull that averaged 21 lbs. butter in 7 days. His dam gave 25.2 lbs. butter dam, 17.44 lbs., was also dam of a 27-bb. cow mad a 21-bb. cow The dam of his sire made 110.70 lbs. butter at three years old in 30 days and 274 in 7 days. Butter at the years old in 30 days and 274 in 7 days. This bull was raised by dec. Rice, who imported the dam from New York. John M. Howard, Bierbutten, Work. John M. Howard, Bierbutten, who imported the dam from New York. John M. Howard, Bierbutten, who imported the dam from New York. John M. Howard, Bierbutten, when the second produces one good ones. At the head of the herd is the noted

VONGEST HOLSTEIN BREEDERS SALE

The Yonge St. (North Toronto) Holstein-Friesian breeders are planning to give of Friesian breeders are planning to give of their best to the combination sale, which they will hold the day after the annual meeting of the Holstein Breeders' Asso-ciation. Those who are consigning stock to this sail are: Gordon S. Gooderham, of Bedford Park; R. F. Hicks, Newtonbrook; Jos. Bales and O. Bales, of Lansing; Geo. McKensie, and O. Bales, of Tornbill; John McKensie of Willowdaller, and Jos. John McKensie of Willowdaller, and Jos.

held at the latter's farm in his splendid new horse training pavilion.

Last week one of the editors of Farm and Dairy called at the "Manor Farm" and looked over the cattle which Mr. Gooderham is placing in the sale. Mr.

them Jewel Meethilde, made 27 lbs. of Gooderham is putting in 20 head. Speak butter in 7 days. Geodernam is putting in 20 head. Speak-ing of them, he said: "I am putting in the best I have in the barn. We want this saile to be an annual event, and we are going to make this first one something that the people will remember and be-cause of it will gladly come back next

cause of it will gladly come back next time to get the good cattle they want. "There will be over 80 head of pure bred cattle in the sale and 20 head of grades. Ten only of the offering will be bulls. The rest will be females. This is quite differ-ent from most sales that are being held, and we are out to give the breaders, and would-be breeders, a chance to get the best of foundation stock at their own Amongst some of the cattle Mr. Gooder-ham is putting in the sale we will men-

prices."

Amongst some of the cattle Mr. Goodenham is putting in the sale we will necessary before the putting in the sale we will necessary butter in seven days and 465 lbs. milk as a three-year-old. (Mr. Goodenham will give the man who buys this cow \$125 for her calf if it is a helfer.) "Inka Slivia De Kol," 36 lbs. milk a day, over 25 lbs. butter as a time-year-old, 425 lbs. milk in seven days and testing mearly 4 per cent: "Dirkg Del," an imported cow from Holland, and with a record of nearly 23 lbs. and has the with a record of nearly 23 lbs. and base of these cows will be sold. This latter cow especially will give someone a chance to get the kind of cow to breed from.

get the kind of cow to breed from.
Other cosx that Mr. Gooderham will
offer are "Countess Mercedes De Kol."
three years old—a bless concerned to the concerned of the concerned offering.

Noteworthy amongst the young stuff that will be sold from Mr. Gooderham's that will be sold from Mr. Gooderham's stable is a bull calf (one year old in Feb-ruary) out of a grand big cow having a record of 72 lbs, of milk in a day nine mouths after freehening. "Counties De Kol 2nd" will also be put in the saie and she is a full sister to a cow sold at Brown Bros." sale for \$1,000.



35 Registered Holsteins

Record of Merit Record of Performance Public Dairy Test Winning Cows Show Ground Winning

The Kind You Read About in Farm & Dairy

Will be Sold at Public Auction, Tuesday, January 2nd, 1912 At the Big Annual Consignment Sale of the Southern Ont. Breeders To Be Heldlin the Roller Rink, Tillsonburg, Ont, commencing at 10 a.m.

These Richly Bred Cattle are from the noted herds of

E. LAIDLAW & SONS Aylmer T. W. McQUEEN Tillsonburg M. L. HALEY Springford M. H. HALEY Springford JAS. RETTIE Norwich R. J. KELLY Tillsonburg GEO. RICE . Tillsonburg J. W. RICHARDSON -Caledonia

These men are all well known breeders; they are breeders and not speculators. They are tak-ing this popular way of selling their increase to keep their herds to the capacity of their stables.

THE AUCTIONEERS:

Col. D. L. Perry, Columbus, Ohio. Moore & Dean ; Wm. Pullin

The offering includes a splendid lot of young females from Record of Merit Dams; Males good enough to lead any herd from great sires and dams with records up to 27.5 lbs. butter a week. Some whose 3 and 4 nearest dams will average this record. Yearly records nearly 20,000 lbs. of milk.

All of the breeders in this sale have their reputations at stake and will consign cattle worthy of their reputations.

Everything will be sold absolutely without reserve, even if it is but a \$5.00 bid Heavy penalties have been agreed upon to foreclose the possibility of any breeder returning cattle to his barn. Therefore you will have the opportunity of years to get choice richly bred Holsteins at your own price.

A SPECIAL TRAIN will be provided on day of sale from Stratford, leaving there on January 2nd at 7.40 a.m., Woodstock 8.30 a.m., calling at all intermediate stations. Ask conductor or agent for ticket to consignment sale and secure cheap rate. Train returns in evening.

For a Big Catalogue giving Full information, Pedigrees and Breeding, write M. L. Haley, Springford P.O., Ont-



mamama nome nome no HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein-Friesian 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 publication in this column.

20 200 200 200 200 200 200 ONE OF CANADA'S GREATEST HERDS OF HOLSTEINS; HERD OF EDMUND LAIDLAW & SONS. AYLMER WEST (Continued from last week)

(Continued from last week). The second heifer is another of the choice ones in the herd. Three months after calving, when two 'years and two months old, she produced 373 lbs. of milk and 17.35 lbs. of butter in seven days and 17.35 lbs. of milk in 18.35 lbs. of the seven days and the seven day

usually large barrel, possesses a nin- open rib and wine that surpass those of many rib and wine that surpass those of the control of the con

Some Nice Heifers

Some Nice Heifers
Among her daughters was a nicely
marked, vigorous looking heifer, dry in
the field when we called, and another,
Wopke Posch. This animal is largely
was a nicely and a nicely and a nicely
more and a nicely and a nicely and a nicely
more and a nicely and a nicely and
down and a good individual. Her sicre
was imported from Holland. Her record
as a three-year-old for seven days is 60;
for 30 days 1730 lbs. of milk and 7468 lbs.
of butter. Another of her daughters, by
Lord Roberts, is Jossie Pauline Posch, a
fine type of heifer, which, at two years,
of milk and 1556 lbs. of butter, and for 39
days of 1,621 lbs. of milk and 62,77 lbs.
of butter. of butter.

of butter.

Lady Aberkerk De Kol. which, at four years old, made 22.17 lbs. butter in 7 days, is shortly to be tested again, and great things are seen to be a superstanding the seen of t

formed.

Still another animal going to the sale is Lady Princese Hiawaths, which, when two years and one month old, made a record for seven days of 360 lbs. of milk and 15.61 lbs. of butter, and for 30 days of 13.63 lbs. of milk and 9.57 lbs. of butter. She was very poor when purchased and when she was very poor when purchased and when she milker, her record under the circumstances furnished quite a surprise. Three two-year-olds that are going in the sale are Rhetta De Kol. 16.58 lbs. butter in 7 days, 6.670 in 30 days: Cairngorm Aggie, 15.77 lbs. in 7 days, 6.670 kbs. in 30 days.

Messrs. Laidlaw and Sons have a farm of Messrs. Laidiaw and Sone have a farm of 30 acree, on which they are able to grow an abundance of feed and bedding even for their large herd. They have a large number of well-bred young animals coming on which enables them to place as many excellent animals as they intend to in the Tilleonburg sale, where, in view of their splendid records, they should draw general attention from the buyers.

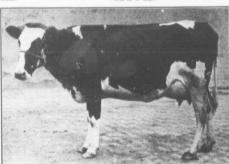
general attention from the buyers.

OFFICIAL TESTS OF MOSTRINFRISTANS 100 OCTOBER
RACHOLD SHAPE (255), at 46 ft. 7m. 20d.
of age; 15.08 lbs. fat, equivalent to 22.50
lbs. butter; 50d. 1 lbs. mills. Owned by
Dr. L. de L. Harwood, Vaudreuil, Que.
Canaan Carmen Sylvia (1068), at 3y.
8m. 2d. of age; 11.54 lbs. fat, equivalent
to 14.2 lbs. butter; 26.7 lbs. fat, equivalent
Lady Copia Artis (10788), at 3y. 8m. 04.
of age; 14.4 lbs. fat, equivalent to 15 lbs.
butter; 46.4 lbs. milk. Owned by
Dr. L. de L. Harwood, Vaudreuil,
2d. of age; 8.38 lbs. fat, equivalent to
19.48 lbs. butter; 25.29 lbs. milk. Owned
by
Dr. L. de L. Harwood, Vaudreuil,
Que.—G. W. Clemons, Secretary.

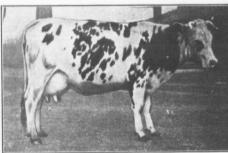
age: 15.2 lbs. fat, equivalent to 19 lbs. butter; 393.2 lbs. milk. Owned by W. J. Balley, Nober, Ont. Lyons Buckeye Maid (3935), at 99. 5m. 7d. of age: 14.83 lbs. fat, equivalent to 15.54 lbs. butter; 45.5 lbs. milk. Owned by Dr. L. de L. Harwood, Vaudreuli, Que.

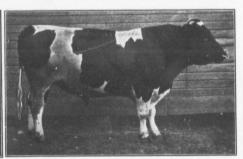
the beautiful the series of th

OFFICIAL TESTS OF HOLSTEIN-FRIESIANS FOR NOVEMBER
Midnight Gem DoKol (2165), at 5y. tim
10d.: 18.38 lbs. fat, equivalent to 22:97
lbs. butter; 315.6 lbs. milk. Owned by
James G Currie, Ingersoll, Ont.
Abby Hengerveid DoKol (4737), at 7y.
10m. 27d. of age: 17.61 lbs. fat, equivalent to 20:37
lbm. butter; 480.4 lbs. milk.
Owned by W. J. Malley, S., 7m. 11d. of
age: 15.25 lbs. fat, equivalent to 20:33
lbs. butter; 480.4 lbs. milk. Owned by
Dr. L. de L. Harwood, Vaudreuil, Que.
Ideal Daisy (7158), at 5y. im. 10d. of









Great Cattle From One of Canada's Greatest Holstein Friesian Herds

To the left and at the top may be seen the likeness of National Queen Deckol-let prize helifer in her class at the recent Guelph Winter Fair, and fourth in general standing. She has an official record at 2 yr. 2 mes. of 13.15 lbs. butter in 7 days; 573.18 lbs. in 39 days; 59%; lbs milk in 1 day; 8 mes. after calving she gave 13.63 lbs. butter in 7 days; 73.18 lbs. in 39 days; 59%; lbs milk in 1 day; 8 mes. after calving she gave 13.63 lbs. butter in 7 days; 73.18 lbs. in 39 days; 59%; lbs milk in 1 day; 8 mes. after calving she gave 13.63 lbs. butter in 7 days; 73.18 lbs. in 39 days; 59%; lbs milk in 1 day; 8 mes. after calving she gave 13.63 lbs. butter in 7 days; 59%; lbs milk and for 39 days 2,227
To the right may be seen lessis Texal Pileterlys, a six-year-old cow having an official record for 7 days 23.44 lbs. butter, 534 lbs. milk, and for 39 days 2,227
lbs. milk and 130 lbs. butter. She is in the Record of Performance and in 11 months 20 days gave 19,221 lbs. of milk. She is to be sold at the Tillesonburg consignment sale Treaday, Jan. 20.4 belock; the bull which appears to the right, is the hearb bull, shown here for reference, since a number of the cows to be sold at Dutchland Colamby Sir and Liddaw 8 some of Arjuner, Ont., who have consigned 35 Holsteins to the Southern Ontario Breeders' sale at Tillson-burg. Tuesday, Jan. 204. All extended description of this herd has been published in the last three issues of Farm and Dairy, including this number.

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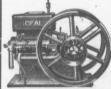
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flat rate of only 98 Cents per inch for the space you use. Have your copy in to us by Saturday of any week preceding date of

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LUMP JAW in a safe, quick, easy way. The first successful cure the one that cures the highest percentage of cases, and the vorst one's, is

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AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Canada. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire Breeders' Association are invited to send items of interest to Ayrshire breeders for publication in this column.

In a recent letter to Farm and Dairy, Mr. Wm. Stowart, of Menie. Ont, writes us that his stock is doing fine. Several have passed the Record of Performance, one two-year-old heifer making 5,78 doing duality well. Others are doing equally well.

TROUT DUN STOCK FARM

An Ayrshire breeder who has come to the front rapidly during the past few the front rapidly during the past few milking stock is Mr. Wm. Thorn, of Lyne-dock, Ont., whose farm was visited re-cently by an editor of Farm and Dairy. Trout Run Farm comprises 130 acres, and is situated in Norfolk county, not far from

Delhi.
Mr. Thorn has been breeding dairy cattle for some eighteen years. Seeing some Ayrshires at the fairs and liking their appearance, Mr. Thorn purchased some, the states that he found that while they did not give as much milk as the Hot-steins, they consumed about only one-third the feed and therefore were more econ cal producers. His foundation stock

the feed and therefore were more economical producers. His foundation stock was purchased in part at the dispersion sale of the great herd of David Morton, of Hamilton, where three or four cows were purchased, and in part from the great Ayrahire herd of Mr. Mess. of Howits, Que. with the control of the co

Maintenance of the control of the co a two-year-old that finished a year's test in the Record of Performance last July with the splendid record of 10.398 lbs. of milk and 435 lbs. of butter fat, her average test being 431. This animal is not onclosely the splendid record of the splendid record of the splendid record of the splendid record in the processes dairy type and an excellent under. A fine cow is Lady Cairs. This animal has a record of 9.691 lbs. of milk and 322.5 lbs. of butter fat in 307 days milking, her average test being 5.55. As milking, her average test being 5.55.

A strikingly fine individual, in fact a cow that if shown next year, if nothing happens, will give the best show cows in cow that it seems the best show own In happens, will give the best show own In happens, will give the best show and awards is a white own, Dalpedder Aggie and (Imp.). Such a good judge of Agrabires as Mr. Drummond, of the Department of Agriculture at Ottawa, believes that this cow possesses great possibilities that the cow possesses great possibilities that the cow possesses great possibilities which continues the company of the company der lines, a broad quarter and plenty of space between the hook bones, with a well spring open rib, covered by a mellow blef. My well has not done as well as the plant of the plant of the produced some 6,400 lbs of milk in the Record of Performance with three months in which to complete her test. She is a high tester, never vesting less than four per cent, and sometimes as high as 87 per cent.

Fine Two-Year-Olds

Fine Two-Year-Olds
A feature of the herd is the excellent
two-rear-old briters it possesses. Besides
Holehouse Fine Holehouse Beauty of Trout Run. She won second
prize in the three-year-old class at Guelph,
and finished her test in the Record of Performance last July with a record of 8,056
lbs. of milk. The result of her test of
butter fat had not been received from
Ottawa at the time of our visit. Another
two-year-old that has done well is Bright
we saw her of 8,823 lbs. of milk in the
Record of Performance with three months
of her test still to run. She had been
testing 40 per cent. A third two-year-old
is Ledy G. She had given 5,481 lbs. of

milk at the time of our visit, thereby qualifying in the Record of Performance with until February in which to complete

with until February in which to complete her test.

Mr. Thorn showed us a number of fine young females that were dry. These fine young females that were dry. These fine young females that testing the won first at Toronto as a calf, and which recently won fifth place at Guelph, socroling 125.73 points and testing 4.3 per cent. This heifer is out of Wm. Riewart's great the work of the work

somewhat against ner un account of the poor pasturage. Wr. Thorn has five cows and helfers in the Record of Performance besides those that qualified last summer, and all will year olds. Mr. Thorn's herd will rank ettil higher among the best Ayrshire herds in the country.

higher among the best Ayrshire herew ...
the country.
The herd bull is Holehouse Pilot (Imp.).
The herd bull is Holehouse Pilot (Imp.).
The herd bull is Holehouse Pilot (Imp.).
The herd bull her woodburn.
Of Holehouse, sectian Tipe the desired by breeders. While this is not a show bull. Mr. Thorn believes that his breeding bull. Mr. Thorn believes that his breeding without the holehouse the holehouse the holehouse her was the holehouse the holeho neifers have completed their test, but the records they have made, including that of Helehouse Flirt, indicate that Mr. Thorn is not likely to be disappointed. In this respect Mr. Thorn has made up his mind that he will not make the mistake that has been made by so many breeders who have solid their herd bulls before discovering their merita.

covering their merits.

Among the young stock on hand were four bull calves, including one from White Picos, one from Lady G, one from Glenhurst Pearl, and one from Woodesse Cairn. The heifer calves comprised one from Dalpeddat Aggle and one from Dalpeddat Aggle and one from Grace Darling 2cd. There was also a nite heifer from Tolehouse Filtr.

Tolehou

A CHAMPION AYRSHIRE HERD

A CHAMPION AYRSHIR HERD
The splendid dairy herd of Ayrshire
cattle gwned by Mr. A. S. Turner and Son,
Rsydman's Corners, which was described
in these columns some months ago, was
found when visited by one of our editors
recently to be in its usual one condition.
The leading animals in the herd were
recently to be in its usual one condition.
The leading animals in the herd were
don Exhibitions and locally, and at the
time of our visit we found them too be
enjoying a rest from travels. This herd
comprises some 30 head in all, of which
some 30 are in milk. Possibly no herd of
Ayrehires in the world has as many anicords as this herd.
Since our last visit, we found that Soci-

Ayenfree in the world has as many animals holding Canadian and world's real male holding Canadian and world's real sizes our last visit, we found that Scotland Princess the 2nd had completed her rear's record. She has made a Canadian record for 12 flower for the control of 11,58 lbs. of milk and 37 lbs. of butter fat. or, made the excellent record of 1,57 lbs. of milk and 38 lbs. of butter fat in 276 days, before she, unfortunately, died of heart failure. Her death proved quite a loss to Mr. Turner, as she was not only a good Mr. Turner, as she was not only a good the control of 1,500 lbs. of milk and 427.4 lbs. of butter fat, her average test being 359 per cent. This cow produced as high as 13 lbs. of milk and 427.4 lbs. of butter fat, her average test being 359 per cent. This cow produced as high as 13 lbs. of milk and 427.4 lbs. of butter fat, her average test being 359 per cent. This cow produced as a follows—6, 4, 5, 4, 4, 5, and 5, 5 per cent of butter fat. Mr. Turner hopes to have content at the Ottawa Winter Pair. White Floss has established a record of 12,59 lbs. of milk, teeting over 4 per cent of butter fat. The final faures of this test at the time of our visit had not been as the content of the finest individuals in this one of the finest individuals in this

herd, Briery the 2nd of Springbank, at the time of our visit last April, was only 2½ years old. She was starting her record with her first calf. She has since pro-duced over 12.521 lbs. of milk, and at the time of our last visit was giving 30 to 30 lbs. of milk a day. Some idea of her perlos of mile a day. Some idea of her per-sistency as a milker may be gained from the following figures, showing her milk production for the months indicated: (Continued on page 23)

MISCELLANEOUS

CHESTER WHITES

pigs just weaned JOHN POLLARD, OHN POLLARD, NEW DURHAM, Norwich Station, G.T.R. R.R. No. 3.

HILLSIDE YORKSHIRES FOR SALE—Choice Young Boars an ows, six to eight weeks old. Eight do ars each, express paid to any station is lars each, express paid to any station in Old Ontario. Pedigree registered. ALEX. A. WATT. BRUCEFIELD. ONTARIO

AYRSHIRES

Avrshires and Yorkshires

FOR SALE—High class Avrshires, all ges, including three bulls fit for service. Yorkshire pigs, all ages. First prise oar and sows is months old. Apply to HON. W. OWENS, ROBERT SINTON Riverside Farm, Montebelle, Que

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes. Imported or Canadian bred, for sale,

Long distance phone in house

R. R. NESS. HOWICK, QUE.

THE SPRINGBANK HERD OF AYRSHIRES Contain more World's Champion milk and butter producers than any other herd in America. A few choice buil calves from record breaking dams for sale at reason-able prices. Address

A. S TURNER & SON.
Ryckman's Corners, Ont. 3 miles south of Ramilton.

CITY VIEW AYRSHIRES.

R. O. P. cows and two-year-old heifers for sale; one yearling bull and a fine lot of 1911 bull calves. Prices reasonable.

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

Ayrshires

World's Champion herd for milk and production. Some young bulls and bull calves, all from E.O.P. cows for sale. A grandson of Primrose of Tanglawyld in 'he lot. Address

WOODDISSE BROS., Tanglewyld Parm ROTHSAV, ONTAPIO

AYRSHIRES FOR SALE We are offering Calves ATHORITICS FUN DALLE Two Calves seven membs old and one four weeks old. These are from well bred cows and out of our stock bull, Lachiavara-Lis&-whose dam, our stock bull, Lachiavara-Lis&-whose dam, four year old, and whose grand dam, Princes of Tanglewyld, the world schamplion, gave over 14,000 lbs of milk as a mature cow. These bulls therefore are of the very best breeding to get milk producers, and are fit to head any herd, JOS- HUDSON & SON — LYN, OMT.

CHOICE AYRSHIRES Are Bred at "CHERRY BANK"

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

P. D. McARTHUR, North Georgetewn Howink Station on G. T. Ry On

SUNNYSIDE AYRSHIRES Imported and home bred, are of the choicest breeding, of good type are have been selected for production "THERF young buile dropped this fail, sired by "Nether Hall Good-time"-2564-(limp.- as well as a few females of various age, for sale. Write or come and see.

J. W. LOGAN, Howick Station, Que

LAKESIDE AYRSHIRES

We have a number of fine young bulls of different ages, all sired by our imported bull and the majority of them from dams entered or qualified for the record of performance. To make room for the winter we are prepared to offer these at attractive prices.

LAKESIBE FARE, PHILIPSBURG, QUE BEO. M. MONTGOMERY, Prop. 164 St. James St. Centres!

WEL We have 34 lbs daugh grand ord s

D

J. LI HOL B

Alse C LAI

Offermont ter of rah coalf. Bul worth FOR SALE Bul est d days oow of bi

L Off 1910, of E ef a veld BRC

H imm J. J

Oour of I days by 1 4th 88 It on 1 Tele St

Proalf, bull from mor old

HOLSTEINS **WELCOME STOCK FARM HOLSTEINS**

We have at the head of our herd King Blanche Lyons, whose two grand dams Blanche Lyons, whose two grand dams of the control of

J. LEUZLER and C. BOLLERT CASSEL ONT

HOLSTEIN One Year Old, Good Size nicely marked, pure bred BULL Darn and grand-dams ver high producing R. of P. cowenist popular families; for sale cheap to early buyer.

Also, Pure Bred Tamworth Pigs, either

C. DUFF NELLES, Boston, Ont.

LAKESIDE DAIRY AND STOCK FARM

Offers two bull calves of 9 and 11 months. Dam of 10 months calf, half sister of Francy 3rd. Sire, grandson of Sarah Jewel Hengerveld 3rd, a good straight alf.
Bull calves and a few females, priced

F. BELL, BRITTANNIA BAY, ONT.

FOR HOLSTEIN BULL CALVES SALE DULL THE BULL GRAVES - Bull call, Poor Feb. 2 whose four near-est dams average T lbs. or butter in 7 days. Another born May 16 dam first days. Another born May 16 dam first of butter in 7 days. Bull calf born Jan. 19; dam, daughter of dam of number 2 calf with official record at 1 years and 15 days of 14,39 lbs. butter in 7 days. Also two-year-old stock bull. David Caughell, Yarmouth Centre, Ont.



Purebred Registered
HOLSTEIN CATTLE
The Greatest Dairy Breed
sxso ros FREE ILLUSTRATED BOOKETS
Holstein Friesian Asso., Box 148. Battleboro, Vt

Lyndale Holsteins

Offers two, young bulls born September, 1910, one of them from a tested daugner of Brightest Canary and sired by a son of a 20.56 lb. yearling daughter of Henger-veld De Kol. BROWN BROS . . LYN, ONT

Holsteins For Sale

A number of high grade calves, both sexes, also registered stock bull, Korndyke Keyes Lad, sire half brother to May Echo, champion cow of Canada, cheap for immediate sale. Apply to J. J. McCALLUM, MARMORA, ONT.

LAKEVIEW HOLSTEINS

Bull call born March Statistics of Count Hengorveld Payne De Kol and out of Rose Battler, S.13 law, butter, 15, by the same sire and out of Suka Syriad St. De Kol. 21 lbs. butter in 7 days and 55 lbs. butter in 36 days. Send for prices on these and in 36 days. Send for prices on these and in 36 days. Send for prices of the same of the same and the same a Telephone. E. P. OSLER, BRONTE, ONT.

Summer Hill Holsteins

Present offering: 15 yearling helfers in calf, 16 imported helfers (some bred), 1 bull calf from a 31½-b dam 1 bull calf from a 25½-b dam 1 bull calf from a 25½-b unior 4-year-old, 1 \$ months bull from a 25½-b unior 4-year-old, 1 \$ months bull from a 25½-b unior dam 1 does bull, who is sire of world's record 2-year-old for yearly production.

If you are interested in Holsteins come and see the only herd in Canada, where there are 7 cows averaging about each but of the days are 1 does 1 d

on the farm. met when advised. Bell phone. D. C. FLATT & SON HAMILTON, ONT.

MARKET REVIEW AND FORECAST MAKKEI KEVIEW AND TORECAST

Toronto, Tuesday, December 26, 1911.—In for Ontario wheat remain unchanged, the every section of business except retail, price being 27c to 28c. On the Farmers' trade is taking on the holiday sepect. Market here, fall wheat is 28c to 38c, and conceniently the volume of trade this last week has been small.

The most notable feature of the coarse train market is the strong drop in oats.

been small.

It is becoming increasingly evident that the situation in Western Canada is the most serious in years. Much of the wheat cannot be moved for lack of cars. All of the interior elevators are full and milthe interior elevators are full and mil-lions of bushels of wheat have no better covering than straw, and unless cars are obtained before warm weather sees a considerable of the constraint of the constraints of farmers cannot dispose of enough wheat to meet present obligations, and the banks have refused to loan them more money. The Railway Commission is going west to investigate and the results of their visit may mean some relief for western farm-may mean some relief for western farm-

ors.

A review of the produce market this past week shows declines in oats, a new record for wheat and steady prices on the cattle market. Sheep and lambs are up and hogs indifferent.

WHEAT

WHEAT

Wheat prices have achieved a new high record for this season's crop of \$1.09. A good strong demand from the Old Country and confirmation of reports of damage to crops in the southern hemisphere account for the rise in price. No. 1 Northern is quoted at \$1.09; No. 2, \$1.61-2; No. 3, \$1.20; red wheat. 78c. Market conditions

EASTERN ONTARIO

Live Stock

Poultry Show

Will be Held at

Ottawa, Jan. 16 to 19 1912

Exhibits consist of HORSES DAIRY AND BEEF CATTLE SHEEP, SWINE SEEDS and POULTRY

\$11,000.00 in Prizes

PRACTICAL LECTURES

will be given on subjects relating to the various classes of Live Stock, also to Seeds, Poultry and Alfalfa

SINGLE FARE RATES ON THE RAILWAYS

For Programme of Judging and Lectures, apply to the Secretary

Peter White, Pres. D.T. Elderkin, Secy. Ottawa

RIVERSIDE HOLSTEINS

Herd headed by Prince De Kol Peech, I am was channien two years in succession and quelph, dairy test. Our new herd bull is King Johanna Pontlac Korn dyke; the records of dam and two nearest dams on sireer side awares 211. To make room for winter stabiling was 1 years old; 10 young bulle from \$ to 8 months of the prince De Kol Peech. This is a rare channee for comeons to get a herd header, a sure and good stock getter. Empres the institute.

J. W. RICHARDSON, CALEDONIA, ONT.

The most notable feature of the coarse grain market is the strong drop in oats, which for so many weeks have been the steadiest feature of the market. Rye is up steadiest feature of the market. Rye is up and a considerable amount has changed hands. Quotations are as follow: Barley, malting, 75 to 86; feed, 65 to 70c; oats, C.W., No. 2, 451-2c; No. 3, 45c; Ontario No. 2, 451-2c; No. 3, 45c; Ontario No. 4, 451-2c; No. 3, 45c; Ontario No. 6c; buckwheat, 50c to 60c; 7c; 50c to 8c; Control of No. 4, 45c; No. 1, 45c; No. 1, 45c; No. 2, 471-2c; No. 5, 46c; No. 2, local white, 46c; No. 3, 451-3c; No. 4, 441-3c.

MILL STUFFS

Prices are steady at last week's quota-tions: Manitoba bran, \$25: shorts, 325: Ontario bran, \$24: shorts, \$25. Montreal prices are unchanged: Manitoba bran, \$25: shorts, \$25: Ontario bran, \$23 to \$24: shorts, 827.

HAY AND STRAW

HAY AND STRAW
Hay is up it to \$1.50, due to the very
small quantities coming in. Most of the
hay is being received from Eastern Ontaric. Straw also is up. \$1. Wholesale
quotations are: Hay, No. 1, \$15 to \$17.
No. 2, \$14 to \$15.50; irraw, \$9 to \$5. No. 1
timothy retails at \$15 to \$25. mixed, \$15 to
\$17; and straw, bundled, \$15 to \$17. The
market at Montreal also is errout. Nomi\$14 to \$15. No. 2, \$15.50; \$15.50; No. 2,
\$14 to \$15. No. 3, \$15.50; \$15.50; No. 2,
\$15 to \$15.50; No

HIDES

An average of prices being paid for hides at country points is about as follows: cured, il. 1.6 to 16; green, 10-16; lambs and pelts, 60c to 76; eaff skins, 15c to 16; horse hides, 83.5; and horse hair. 50c to 16; borse hides, 83.5; and horse hair. 50c Quotations on the market hear ere as follows: No. 1, 21-16; No. 2 II-16; No. 3, 10-16; eaff skins, 15c to

2 11 les; state 15c.
Wool is quoted as follows: Unwashed, 13c to 14c; washed, 19c to 20c; rejects, 15c. HONEY

Wholesale quotations remain un-changed. Strained clover honey is 10s to 15 in 60-lb tins, 1to to 12s in 5 to 10-lb tins: buckwheat honey, 6s to 7c in tins, 3-de in barrels. No. 1 comb honey is 82.25 to 82.50 a dos.

SEEDS

Prices being poid by dealers are as follows: Alsike, fancy \$5.00 to \$10; No. 1, \$10.00 to \$10; No. 1, \$10.00 to \$10.75; No. 2, \$10.25 to \$10.00 timethy, fancy, \$7; No. 1, \$6.50; No. 2, \$6.55.

POTATOES AND BEANS

Local dealers have secured a fairly good supply of notates and prices are not so strong as they were a week ago. Quotations being down almost five cents. There is no danger, however, of a slump in prices, and the chances are that the near tatter will seep it while the contract of the c Local dealers have secured a fairly good

\$1.27.1.2. Prices for beans here are steady at \$2.25 to \$2.30 for primes and \$2.35 to \$2.40 for had picked. At Montreal three pound pickers are worth \$2.25.

EGGS AND POULTRY

Receipts of fresh eggs are practically nil and dealers are depending altogether on cold storage stock. Nominal prices would be 380 to 460 for strictly new laid and 276 to 380 for fresh. Eggs retail at 56c. Whole-sale prices at Montreal are: Fresh, 16g; selected, 36c to 31c, and No. 1 stock, 26c

to 2fe.

Dressed poultry is still dull. Wholesale quotations here are: Chickens, 12s to 14s; fowl, 7s to 18c; fowl, 7s to 18c; fowl, 7s to 18c; fowl, 18c to 18c; turkeys, 2lt to 28c; ducks, 12s to 16c; goese, 12s to 14s. With the Christmas demand out of the way the prospects are that the prices for dressed poultry may go even lower.

Lawrence of the control of the

DAIRY PRODUCE

Produce men have advanced the price of butter one cent. They are now offering for dairy prints, 25c to 27c; creamery prints, 35c to 32c; solids, 28c to 29c; and in-ferior, 17c to 18c. Twin cheese are quoted at 16c, and large at 15-2c.



WIII, reduce inflamed, strained, problem 7 rendom, Ligam at 15, and 15

NEWVERMIFUGE

The best and most effective remedy for Bots and other worms in horses.

(Guaranteed by the Farmers' Horse Rem-edy Co., under the Pure Food and Drugs Act, June 30, 1906. Serial No. 3871). It is guaranteed to kill and bring from the body dead in from 18 to 24 hours all pin worms and bots

Farmers' Horse Remedy Co., Dept. A 592 - 7th St., Milwaukee, Wisconsin. Dept. A.8.

HOLSTEINS

HOLSTEINS FOR SALE

Two bull calves, deep milking strain, also a few pure bred Tamworth pigs, either sex. BEN HOPPS, CAMPBELLFORD, ONT. P.O. Box 563.

Leslie Farm Holsteins

FOR SALE—Two young bulls fit for service, one from a 21 lb. four-year-old, the other from a 28 lb. cow. Both are good individuals and Write for further information.

W. E. THOMSON, WOODSTOCK, ONT.

R. R. No. 7.

FERNDALE STOCK FARM

FERNDALE STOCK FARM
Updeadale Horses and Holestoin Cattle
were never stronger than now. We have 4 or 5
bulls from Korndyke King Schillar, who
is closely related to Pontiac Kerndyke,
Also 8 grade heliors rising 2 years old, bred
to freshee from now on,
Valiotro on giving notice will be met at the
C.P.R. station, M.E. Eight.
PERMELLER SROS.

Mt Rigin, Ont.

"LES CHENAUX FARMS"

LEG UNITARIA FARMS

HOLSTEINS—Winners—in the ring and the pail. Gold Modal hard at Ottawa

Fair.

Gold Modal hard at Ottawa

Fair.

Bull and Hetier Caives from our winours for sale.

DR. L de L MARWOOD, D. BODEN

Man.

Best Record Bull in Canada

Lewis Prilly Robbie Hartor heads our heat as sire of 5 a. R. O. daughters. Hanch Roube Hartor 5 a. R. O. daughters. Hanch Roube Interior, 2 yrs. 7 mo = 2.2.—will in test. Villa Burke, 2 yrs. 1 mo = 20.08—made in Oct Carlotte Piet. Spofford, 2 yrs. 2 mos = 17.25 atter having severe trout. Rose Roube Hartor has had two calves and made 2 records and is still in the two-year-old class and still in test and is No other built in Canada equals this record for its 4 daughters to freshes. He is a son of Beauty Pieterith Butter Kings, 1 attor = 23.88—dam of Abley Hartor Clothilde, 31.39.

FOUR YOUNG BULLS

Several R. O. M. Cows In Calf to This Sire Will be sold at the

Breeders' Consignment Sale

Tillsonburg. Jan. 2nd, 1912 A limited number of cows will be accepted for ervice to this great bull. Service fee \$50.00. T. W. McQueen, Tillsonburg, Ont. Quotations on this market are: Heavy drafters, \$175 to 8300; medium weight, \$170 to \$220; agricultural, good, \$160 to \$220; fair, \$100 to \$150; drivers, \$130 to \$190; saddlers, \$150 to \$270; and express horses, \$160 to \$200.

LIVE STOCK

LIVE STOCK

The live stock market is taking a rest during the holidays. Trade was fairly active on the opening market of last week, and a lot of good cattle were cleared up and a lot of good cattle were cleared up and a lot of good cattle were learned up and the last special way and a lot of good cattle week. The second market of the week was small and from then on there was little doing. The prices established on the first market of the week held eway on succeeding market of the week held eway on the first way to be \$2.5 to \$5.5 to \$5.5

are 3e to 85.00. Sheep have showed won-derful strength this past week, and lambs are again above the 86 mark. Quotations are as follow: Ewes, \$3.25 to \$3.75; bucks and culls, \$3 to \$3.25; lambs, \$6.60 to 26.75

56.75.

The market for hogs is indifferent. Packers quote \$6.69 to \$5.15 f.o.b. country points and \$8.50 on the market.
Receipts of live stock on the Montreal market last week net with a good demand. Some of the cattle were an extra choice lot, and were taken up for the choice lot, and were taken up for the Christmas trade at prices ranging from \$5.90 to \$7 for the best. The offerings of common stock were much smaller than experience of the country of

Choice milch cows are \$75; Uniotee milen cows are \$75; com. to med, \$55 to \$60; and springers, \$30 to \$40. Sheep are the strongest feature of the live stock trade, quotations having ad-vanced 25c to 30c. Lambs now sell at \$5.75 to \$5.35; ewes, \$4 to \$4.25; and bucks and culls, \$5.50 to \$3.75.

HALEY BROS.' GREAT HERDS (Continued from last issue)

Other entitled from last issue)

Other continued from last issue)

Other splendid young animals in the heart of the last of himford, in addition of the last of himford, in addition week's issue, include Dewdrop Johanna Belle. a two-year-old that freshead when 22 months old. She is proving a good should be special that the same type continued and is much the same type continued and the same type of the special that week. She has the large muzile and depth that show constitution, and milk veins that run well start on the special that the special

Honsewood Aaggie De Kol was only one Honewood Aaggie De Kol was only one your and four months old when she freshened, but even at that age made a record of 10.42 lbs. of butter in seven days. She is believed to be the youngest heifer known to have an official record. Her bull caff will be sold at the Tillisonburg sale.

Homewood Stock Farm

Homewood Stock Farm
Like his brothen, Mr. M. H. Haley, of
the Homewood stock farm, although he
has always used a pure bred Holstein
bull, only started to keep nothing but
pure breds in 1953. Since then he has
gathered a herd of Holsteins that is a
distinct credit to him as a breeder. The
herd includes some 55 animals, among
which are 46 females. Mr. Haley is a
which are 46 females. Mr. Haley is a
condition all the time.
The outstanding individual in this herd
is Calamity Starlight Butter Girl, now

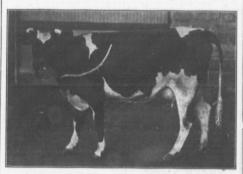
The outstanding individual in this herd is Calamity Starlight Butter Girl, now four years old. This is the cow that in the darry eta at Guelsh inst year, as a fine and the darry eta at Guelsh inst year, as a label to the darry eta at Guelsh in the star goring 20, 20 points. In this test Calamity gave 15,3 bis. or milk, testing 5,5 per cent. butter fat. This is the best record that his even been made by a helfer or cow

at Guelph. Shortly before going to the test she made a 7-day roord at home of a nuction sale with her calf for \$350. A 22.60 lbs. of butter and was improving every day in her production as the test September at Toronto and was later sold



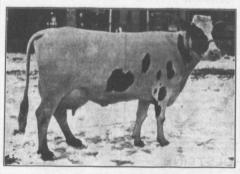
"How Much for this Cow?" She may be Yours at Your Price

Queen DeKol Posch, here shown, is one of the splendid string of Holstein cat-tle to be offered by M. H. Haley, Springford, Ont., at the great auction sale in Illisonburn geat Thesday. Her official record is 20.6 lbs. butter in 7 days. Her average test for fat in milk is 4.16 per cent. —Photo by an editor of Farm and Dairy.



A Young Holstein of Much Promise

This helfer, Auggio De Boer, has an official record of 169 lbs. butter and 384.1 lbs. milk in 7 days at 2 years old. She too is owned by M. H. Haley of Spring-ford, Ont., and is another of the choice lot be is putting in the Breeders' consignment sale at Tillsonburg Jan. 2nd. — Photo by an editor of Farm and Dairy.



Average of Five Nearest Dams, 88 lbs. Milk a Day

This grand cow, Anggie Camelia Posch, is another one owned by M. L. Haley of Springford, Ont. Her bull calf will be in the Holstein sale at Tilisonburg Jan. 2nd. Who ever gets this calf will have a grand good herd-header of choicest breeding.

—Photo by an editor of Farm and Dairy.

for \$700. A bull calf out of her, sired by Grace Fayne, 2nd Sir Colartha, will be sold at the Tillsonburg sale. Calamity Starlight Butter Girl is also to be gold at the sale.

the sale. Her half sister on the sire's side, Queen's Butter Baroness, has a junior three-year-old record of 25.66 lbs. of butter in seven days and held the championship for her age for some time. Her average test for the week was 4.4 per cent. She won the first place in the Guelph She won the first place in the Guelph dairy test two yars ago, scoring 40 joint dairy test two yars ago, scoring 40 joint more than her next nearest competitor. She is one of the higgest coven in the herd, showing length and depth, a well spring r1b, large bread basket, fullness and depth behind the shoulder, breadth across the loins, and a broad quarter. She has a straight back and a nice, mellow skin.

Artalissa 2nd, to be sold at sale, a sixyear-old, has a four-year-old record of 432 lbs. of milk and 20.15 lbs. of butter. 8he is another large oow just going dry at the time of our visit. She has a grand muzzle, a vigorous constitution and is one of the most promising animals of the herd.

Her only daughter in milk, Mercena Ar-

Her only daughter in milk, Moreem attaliass, was at Guelph in 1996, where she won a second in the class for two-year-olds, although she was the youngest in her class. During the test alse gave 44 lbs of milk per day, testing 4.6 per cent. Moreem attaliasa has just been officially tested and made nearly 11 lbs. of butter as a junior four-year-old under very year-old record of 1.68 lbs. of milk. Although not by any means fully developed she already shows an unusually strong constitution and possesses an exceptional udder.

udder. Still another large animal is Queen Pa

al udder.

Still another large animal is queen Pavorit Posch. She is a three-year-old and has a record of 562 lbs. of milk and 17.8 and 18.2 and 18

pion and gold medal female at Toronto 1911.

The prise winners noticed include the grand champion heifer calf at Toronto, the second prize yearling heifer to be been considered to be the prize of the prize yearling heifer to be the prize that the prize the

ENTRIES FOR EASTERN SHOW

ENTRIES FOR EASTERN SHOW
Only a few days now remain in which
to make entries for the Eastern Ontario
Live Stock and Poultry Show which will
be held in Ottawa January 15th to 19th.
1912. Any owner of high class stock who
1912. Any owner of high class stock who
through the premitten its of
this show through the premitten its of
this show will be a most profitable undertaking. Not only will it be profitable
in immediate financial returns but, at a
breeders' abow such as this, the advertements which results from winning contements which results from winning tothe future.

the future.

Over \$11.00 are offered in each prize for the leading kinds of horses, dairy and beef cattle, sheep, swinc, poultry and seeds. Awards will be placed by competent and impartial judges, who will endeavor to give every exhibitor his just due. Each exhibitor will be paid the full amount of his awards, even if there is also the same than the

WO

D

bercul Write RIFTO

G bulls mos. dis out with lin 7 mos. of the of Da milk, years. Here buy a E. B.

We Perfor Five Paul by Sir Wri-make freshe crease Pho E. C

Hor pion lbs. b Her Bir . sire's lbs. have to of

one. B. L

F Bons (work Kol) the record by the hreed the 30 lb We dyke Kol

day 34.41 We sons son Henris a dam recording the dam recor

FOR TWO CAL

40

HOLSTEINS

WOODCREST HOLSTEINS



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ut-

r.

x.

A few choice Bull Calves for sale; six to ten months old. Some of Homestead Girl De Kol

Sarcastic Lad, and grand sons of Pietertje 22nd. Recently tu-berculin tested by a U. S. inspector. Write for pedigrees and prices.

WOODCREST FARM

RIFTON; ULSTER CO., - - NEW YORK

GLENSPRINGS HOLSTEINS

bulls from officially tested dams. One, 13 mon. old, sired by Inita Sylva Beets Posch, is out of Lady Rose Gerben, which made with her first calf at 2 years 12 lbs. butter in 7 d. 3 m. after calving. Another, 11 mos. old, sired by Count Gerben, brother of the world's champion 2-year-old, is out of Dalay Verbelle, averaged over 11.000 lbs. milk, milked twice a day for 3 consecutive.

Here is an exceptional opportunity to buy a good sire at the right price.

E. B. MALLORY. FRANKFORD, ONT.

HOLSTEINS

We have Record of Merit and Record of Performance pure bred Holsteins. Flve young bulla stred by Sir Abbekerk Pive young bulla stred bul (sxtra) by Sir Beets De Kol Posch. Write for particulars. I must sell to make room. My cows are beginning to resehen and I need the room for the in

Phone connections at St. Thomas. E. C. GILBERT, PAYNES MILLS, ONT.

HOLSTEINS



If you are wanting HOL. STEIRS, any age, either sex GORDON H. MANHARD,

Manhard, Ont.

HOMESTEAD HOLSTEIN HERD

Home of Helbon Dekol, Canadian cham pion cow for 7 and 35 days, vis., \$1.54 lbs. bbs. butter in 7 days, 128.57 lbs. in 30 days.

bbs. butter in 7 days, 138.87 lbs. in 30 days. Herd is headed by Dutchland Colantha fir Abbekerk, whose dam, Tidy Paulline Dekol, made 32.44 lbs. butter 7 days, and sire's dam Colantha 4th's Johanna 523 hbs. in 7 days, 1,507 lbs. in 1 year. We have the choicest young bulls we ever had to offer. Better speak early if you want

E. LAIDLAW & SONS,

AVEMER WEST, ONT.

FAIRVIEW FARMS HERD --- HAS FOR SALE-

8cms of Pontiac Korndyka, size of the (world's record) cow Pontiac Clothilde De Kol and R. B. B. Lutter in 7 days. He is the size of seven familiers where the size of seven familiers where the size of seven familiers of the size of the year of th

We have he service, and can offer you sone of fir Johanna Colantha (lindi, a son off the helpest record daughter of Hencerveld De Köd.

The word of the highest record daughter of Hencerveld De Köd.

This wound street of the word of the service of

e, H. DOLLAR.

Re. Lawrence Co., N.Y.

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

CALVES WANTED-Want fifty calves to raise on charce. Leslis R. Long, Alsask, Sask.

SALE DATES CLAIMED

AALE DATES CLAIMED
April 3, 1912.—Breeders' Consignment
Sale, at Belleville, Ont.
Consignment sale of the North Toronto
Consignment sale of the North Toronto
on day following Holstein-Friedian
Association annual meeting. Date will be
announced later.
March 27–8. Macklin, Weston, Ont.

Frierheller Bros., Mt. Elgin, Ontario, have for sale a few Glydeedales, two and three-year-old geddings and filles—choice individuals worth going to inspect. They are offering also de grade Holstein helters of the control of the co

A SUCCESSFUL B.C. SALE The sale of live stock owned by Captain Jas. Erskin. Eburne, B.C., at public auction, Nov. 20, was a great success. It is a record breaker of prices.

Light horses sold cheap. One and two-rear-olds brought from \$50 to \$110; heavy lorses, from \$225 to \$500. One team of horses, from \$225 to \$500. Une team of pure bred Clydesdale marcs brought \$800: one fine four-year-old, \$500. This is a fine grade marc. One one-year-old colt sold for \$325: one foal, 1911. \$275.

Ten two-year-old heifers brought \$69 each. The grade cows brought from \$64 to \$211. Fourteen sold for over \$100, and many were nearer \$200.

many were nearer \$200.

In the sale of pure bred Holsteins the two-vear-olds averaged \$130 each and the vearlings \$414. Prices renlized \$67 pure bred cows were: Three, \$300 or over: four between \$200 and \$500; four between \$150 and \$270, and only three out of 16 sold under \$100.

SOUTHERN ONTARIO HOLSTEIN BREEDERS' SALE

BREEDERS' SALE

The largest auction sale of pure bred Robstein extite that has jet been held in Canada will be that of the Southern Oscarda will be held on Tuesday, January 2, 1922, at the Roller Rink, Tillsonburg, Ont. commencing at 10 o'clock a.m. The eattle consigned to this sale are from for the control of the sale are from control of the sale are from a control of the sale are from the control of the sale are from the control of the sale are from the control of the sale and the sale and the sale are from the sale and the sale are from the sale and the sale are from the sale and the sale and

their cattle win at dairy tests. Fever effort is being put forth by the executive committee in charge of the sale to make all visitors comfortable and welcome. The rink in Tilisonburg will afford a splendid place to hold the sake, and a warm room in connection with it will add to the comfort and convenience of all who are in attendance.

Farm and Dairy readers are assured that the aggregation of breeders as an-nounced in the half-nage advertisement elsewhere this week are breeders, not specelsewhere this week are breeders, not speculators. They are adopting the popular method of combination public auction to sell their increase and to keep their herds to the capacity of their stables.

MORE ABOUT McQUEEN'S HOLSTEINS

MORE ABOUT McQUEEN'S ROLSTEINS

These attending the Southern Bireeders'
comments als at Tillisonburg Jan.
2nd. 1912, would be well repaid by visiting it he farm of T. W. McQueen, one of the largest contributors to the sale. He is selling a lot of his best females, but selling a lot of his best females, but selling a lot of his best females. Due to the sale in the farm of the farm of his best females, but selling a lot of his best females. Due to the largest contributors to the sale in the sound one coming on of which he is soully proud.

But the one that will be of greatest interest to the breeders in the selling a lot of the sale in the sale in

record for cow and six daughters, 25.62 lbs. Also Prilly, 25.29, Beauty Pictertie, 30.51; Lillian Walker Pictertie, 50.51; Lillian Walker Pictertie, 50.61; Ruby Walker Pictertie, 27.72, and Segis Walker Pictertie at two years, 26.43 lbs. butter holds the world's records for four and five generations, the second properties of the breed who has two daughters over 30 lbs. each that have educy produced a daughter over 30 lbs. each that have educy produced a daughter over 30 lbs. cach that have educy produced a daughter over 30 lbs. cach that have educy and so the produced a daughter over 30 lbs. cach that have educy and so that have been produced a daughter over 30 lbs. cach that have educy and in this Look over Mr. McQueen's ad. in this

Stock is Selling

Recently Mr. J. W. Richardson, of Caledonia, Ont., commenced running his advertisement in Farm and Dairy in display space, at a cost to him of \$1.96 each week. He writes us under date of December 8th, as follows:

"Enclosed find the sum of \$5.88 as per account. We have received many enquiries for \$5.88 as per account. We have received many enquiries for stock through our advertise-ment in Farm and Dairy, and several sales of stock has been

Are you seeking sales for your surplus stock? Are you waiting for some one to come to buy?

Why not go after buyers?
Why not advise them through
Farm and Dairy. The cost is
little. The returns are big.
Our rate is only 98 cents per

inch for such space as you may regulre.

For next week send your copy to-day. It must be in Peterboro by Saturday, or at the latest early Monday morning before the date of the issue in which you want your ad. to appear.

issue and pick up some of the good ones being sold at the big consignment sale Jan. 2nd, 1912.

CHAMPION AYRSHIRE HERD (Continued from page 29).

Jan. 1,327 lbs., 7eb. 1,400 lbs., Mar. 1,565 lbs., Apr. 1,434 lbs., May 1,370 lbs., June 1,305 lbs., July 1,165 lbs., Aug. 1,069 lbs., Bept. 941 lbs., Oct. 983 lbs. She is going to make one of the best records ever made by a

before the rago.

Another two-year-old helfer with her first calf that has been doing good work is Buttermald of Crisicalea. This helfer hes until January the 9th to complete her test. Up to early in November, she had prince the complete her test. Up to early in November, she had prince from 4 to 455 per cent.

Sybella of Springhank, which last year in a private test produced 1,500 hs. of milk, for a four-year-old, has been doing exceptionally good work. In April she produced 1,556 hs. of milk, establishing a new 1,500 hs., in June 1,546, in July 1,597, in August 1,253 lbs. She is still doing well.

(Continued next week)

(23)

HOLSTEINS Centre & Hillview Holsteins



We own the Champion of Canada Jun-ior 2-year-old giving 21.34 lbs. butter in 7 days and 83.54 in 30 days; also a 3-year-old giving 23.83 lbs. butter in 7 days and 55.71 in 30 days. FOR SALE: Bulls up to one year old; also fomales, all ages, with official back-

P. D. EDE Oxford Centre P. O., Ont.

Long distance phone. Woodstock Station

PENINSULA FARM HOLSTEINS

Young bulls for sale from Record of Merit cows and Winter Fair prize winnars

H T. PATTERSON, ALFRED JCT., ONT.

AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

We offer bull calves, all ages, and all out of tested dams. One is a son of Sir Johanna Colantha Gladi, being a grand-son of Colantha Johanna Lad and Pon-tiac Korndyke, and from a 25 lb. three-year-old dam. Also HORN DORSET SHEEP and YORK SHIRE PIGS

Address all correspondence

H. LORNE LOGAN, Manager Brockville, Ont.

AUCTIONEER My lifetime has been devoted to Breeding Holsteins and selling Dairy Cattle. Have sold sales from the Atlantic to the Pacific. My experience is up to you.—ROBERT E. HAEGER. ALGONQUIN. ILL.

BROOKSIDE HOLSTEIN FARM BROOKSIDE HOLSTEIN FARM
Offers a beautifully marked Young Bull,
whose 4 nearest dams average 22.5 lbs.
of 'Jess' evenan A." the best type of a
Holstein cow in America; his dam is sired
by 'Johanna Rius d'his Lad." who carries
by 'Johanna Rius d'his Lad." who carries
Lad."—88.000 buil. Several other choice
ones, both sexes, for sais Write for pedigrees, photose and the company of the company

RIVERVIEW HERD

Offers bull calves from 2 to 10 mos. old SIRED BY KING ISEBELLE WALKER, whose 5 nearest dams and sister average 30.18 LBS. BUTTER IN 7 DAYS and 115.57 lbs. in 30 days from dams of likewise breeding, at exceptionally low figure, to

make room.
P J. SALLEY, LACHINE RAPIDS, QUE.

BREEDERS' DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines, nor for less than six months, or 2 insertions during twelve months.

HAMPSHIRE PIGS—Canadian Champion herd Boar herd headers. Sowe three months and under.—Hastings Bros., Croschill. Ont.

CLYPESDALES—Home of Acme. (Imp.)
Holsteins—Home of King Fayne Regia
(Hothilde, nearest 7 dams 27 lbs. butter ner week, and Broken Welsh Ponies.— R. M. Holthy, G.T.E. & P.O., Manches-ter, Ont., Myrtle, G.P.E.

HOISTEINS AND TAMWORTHS—All ages, also S.C.W. Leghorns. Young stock for sale at any time.—J. McKensie, Willow.dale. Ontario.

HOLSTEINS—Young stock, for cale. Sired by Imperial Pauline DeKol, whose 15 nearest dams average 25.20 lbs. butter in 7 days.—R. W. Walker, Utica, Ont.

TANWORTH SWINE-Choice stock for sale at all times at reasonable prices. Occasiondence invited.—Wm. Keith & Son. Listewel, Ont. Bell phone.

(24)

MONDERFY DECEMBER 1911 FEBRUARY 1912 Commencing BARGA . . Sale . ABOUT FREE DELIVERY T. EATON Com CANADA MATERIAL ALONE WOULD COST YOU MORE Sizes 38, 40, 42. 198 All \$25.00 orders a freight prepaid in tion to goods priced free delivery. Izes 32 to 42. TORONTO REDUCED PRICES PHENOMENAL That's what we BARGAINS receive. We've wo WE GLADLY REFUND YOUR MONEY IF GOODS ARE NOT SATISFACTOR! IS YOUR CHANCE TO BUY AT GREATLY MONEYSAL OR EVERY NOMAN TOU RUN OF W