Issued Each Week-Only One Dollar A Year

VOL. XXXII.

NUMBER 40

# RURALHOME

PETERBORO, ONT.

OCTOBER 2

1913



THE STOCK THAT STANDS AT THE TOP OF THE MARKET THESE DAYS young pigs such as the ones here illustrated are in demand nowadays. So are brood sows. High prices have forced hogs into the lime light. Market quotations now range from \$7.65 to \$9.15 F.O.B. at Toronto and a shade higher at points east and west. Quotations have been up recently to \$10 for choice beacon hogs. And why these high quotations? Because widely fluctuating prices have tended to discourage the producer and demand is now ahead of supply.

these occasional high prices bring a golden return to those shrewd enough to foretell the market. Stable prices would be more encouraging to farmers generally. Can not farmers and packers cooperate to this end?

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GANADIAN GOUNTRY LIFE

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DON'T get away with the opinion that the "Simplex" is complicated, like other machines. It is as simple in construction and operation as A.B.C.

BECAUSE of the simplicity and minimum of working parts, it can scarcely get out of repair and will last a lifetime. Surely this one great factor in itself should be enough to convince you that your new Separator should be a "Simplex."

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WE can't begin to give you the full particulars covering each ne of these "Simplex" features, but we'll be glad to send you descriptive matter giving all information you want about this peer amongst cream separators. Drop us a card.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

# **Choose Good Stanchions**

What's YOUR idea of a GOOD Stanchion? Isn't it one that will never bulge or sag, one that will last you a lifetime, one that will look and unlook as easily a year from now or ten years from now as on the day you bought it—and one that holds the cattle surely? now as on the day you bought it—and one that nous the earlier way. The O. K. Canadian Stanchion comes up to all these requirements— because we've been making Stanchions so long that we're on to every wrinkle in the business and we know just how to make every part best and what to make it of.

Frames of the best U-bay or channel-section steel—so strong and rigid that they simply can't builge or bend. Swing tars hinged bich instead of at the bottom—so they will silvarys be easy to lock and indock—and fixed so that they cannot fall to the floor when open, to be tread on and best.

A lock that's so simple that it can't get out of order in years of use, easy to work, and proof against the "slickest" core



CANADIAN POTATO MACHINERY CO ONTARIO

#### THAT ASTOR PROPERTY-MR, CURRIE COMES BACK \*

and Dairy you again make cer-tain statements about that Astor property which tend to create a wrong impression on the minds of your readers regarding the dealings of the Astor family and the conclusions of one of your old subscribers.

You show that the total increase in value and returns from the Astor Hotel has amounted not only \$7,436,000, but to \$7,436,000 \$7,430,000, but to \$7,430,000 plas \$2,350,000, or a total of \$9,786,000, and say, "We take no exception to the Astor family obtaining all the returns they can in the form of interest or rent on their original investment. We do take exception to their grabbing; also the \$2,350,000 of increased value which the community at large has created, and not the Astor family. That increased value belongs to the public, and should be claimed by the public through a tax on land values." You seem to have entirely forgot-

ten the fact that the Astor family have for 80 years been paying a heavy municipal tax on their hotel property. If the annual sums thus paid in taxes on the hotel had been otherwise invested so as to return five per cent. compound interest, it would now amount to over \$6,226,000. hve per cent. compound interest, it would now amount to over \$6,226,000. In addition to this, had the original cost of the hotel and its site been otherwise invested so as to return otherwise invested so as to return five per cent, compound interest, it would now amount to over \$14,872, 000. Add to this the amount which could have been secured had the annual tax bills been otherwise invested to bring in five per cent. compound interest, the total sum would now amount to over \$21,098,000, which the Astor family would have onestly earned had they invested

the money in general business instead of in the hotel and its site.

Had the site of the Astor Hotel been left vacant until the present time, the annual municipal tax bill on account of it would have amounted in the aggregate to over \$320,000, and had these annual tax bills been otherthese annual tax bills been other-wise invested so as to yield five per cent, compound interest, the sum would now amount to over \$3,885,000. After having spent the equivalent of more than \$7,500,000 in taxes, all

of which were spent for public poses, some people have the cheek to say that the Astor family did nothing towards increasing the value of their lot from \$150,000, its original cost, to \$2,500,000, its present value.

Farm and Dairy owes it to the Astors, to the general public, and to itself to let these facts be known, in itself to let these facts be known, order to correct certain misconceptions which its former article may have raised in the public mind.—David Currie, Lansdowne Avenue, Westmourt, Que.

ANOTHER VIEW OF THE CASE Editorial Note.—The principle of the taxation of land values is of great importance to the farming communimportance to the farming community. When rightly understood and applied it will lift an immense burden of taxation off the shoulders of the farmer. For this reason, and because the principle involved in this discussion underlies the taxation of all valuable business properties in Canada as well as in the States, Mr. Currie is doing a public service in defending his stand, and we feel jus-

defending his stand, and we feel jus-tified in giving the subject more space than we otherwise would. Without attempting to ascertain how our correspondent is able to quote figures so authoritatively, we would like to draw attention to some of the well taken points in his let-ter. In the first place—while we know that they did not pay them—we consider that it was an injustice that

Note.—For previous articles in this dis-cussion, see the issues of Farm and Dairy for July J. August 7 and September 11.

DITOR, Farm and Dairy,—In the Astor family were even expected the September 11 issue of Farm to pay taxes on their hotel building. By erecting that building they did the public a service. They created work for the people who built in they provided work for the employers they had to engage to run it, and they furnished accommodation travelling public. By catering to wants of the public they aided that extent in reducing the cost living, as the more hotels there the lower are the rates charged the public. For all these reasons, there fore, we feel that the Asto family should not have been expected to past taxes on their hotel buildings. LAND VS. IMPROVEMENTS

When we come to the land occupied When we come to the be-by that building, however, it be-matter. The land comes a different matter. The land was made by God, not by the Astor was made by God, not by the Astor family. It was intended for the use of mankind at large and not for the especial benefit of the Astor connec-tion. The best proof of this is the fact that that piece of land was there long before the Astor family had been beard of and will be three we may heard of and will be there, we may presume, long after the Astor family has passed out of existence. has passed out of existence. It is only right, therefore, that for the privilege of using that piece of ground the Astor family should pay the public, in the form of taxes what its use was worth to them, and that these taxes should increase as the value of the land itself increased with the influx of population into the city of New York,

would like to point out that the Astor family, as a matter of fact, did not pay the taxes on the hotel building, as our correspondent seems to think. Instead, the longsuffering public had to pay them the danger of repeating explanations given previously of this simple principle in taxation we will describe it once more. Before buying the site for the hotel or erecting a thereon the Astofs, like all good business men, made a careful esti-mate of the investment that would be required and of the operating ex-penses that would be involved in its managment, including all taxes.
They added these together and then
made a conservative estimate of the revenue and profit they might safely expect to derive from the enterprise. When assured that they were safe in estimating that they would receive a fair rate of interest over and above all taxes, they proceeded to erect thotel. Had they not been assured this return on their total investor would not Thus the taxes were really

added to the bills charged the patrons of the hotel and paid by them and not by the Astors.

In addition, therefore, to reing a profitable return on their vestment in the site of the hotel and vestment in the site of the hotel and in the building itself, the Astors also received over \$29,000, or a total of \$2,350,000, from the increase that took place in the value of the six itself. (This has been explained in previous articles.) It is this \$29,000 a year or \$2,350,000 that we contest belongs to the public and not to the Astor family. It is because hundreds of millions of dollars of these publicle created values are each year passet into the hands of private parties, in Canada as well as in the States, the we feel our farmers' organization are justified in the stand they har taken that these values should be claimed by the public. All aroust Westmount, for instance, from wheth created values are each year pass our correspondent writes. ortunes have been made throughenomenal increases in land value Had the public received their sho of these and other similarly increa-values taxes in Canada would not so high, and farming generally wo considerably more profitable.

Issued Each Week

Vol. XXXII.

HANI

Rev. Father Lea

How Fruit is Picke

DICKING and p is a science. accounts for from off condition o or in storage. When should we l

rule the apple is re

turn brown and the tive ease from the finite. A man must pearance of the ap is ready to pick, and only learn from exp a way the color is the For instance, in t Wealthy, Fameuse tosh apple, the color mature one. Duch picked before it read color, if we intend to But even in this cas not recommend at Duchess too much or

An apple is general pick when it is well does not mean that should be ripe enor eaten, but ripe enou shipped, keep well a good taste. To pick this stage is very imp all apples on a tre mature at the same in the case of Duches erally make two or t ings.

AVOID OVER-RIPE? With red apples t growing tendency on ers, on account of th color, to allow apples tree. Disappointment of such a line of cond ers were just glowing had, when there came windfalls of half of the But this is only one s

An apple that is all the tree is beautiful i and as far as casual of condition. This is w Such apples are neithe far or to hold up in e judge the proper matur many complaints from ly, after a very dry a our McIntosh and Fam and the falling down in Vol. XXXII

FOR WEEK ENDING OCTOBER 2, 1913

No. 40

# HANDLING TENDER VARIETIES OF APPLES IN QUEBEC PROVINCE

Rev. Father Leopold, La Trappe, Que., President Quebec Province Fruit Growers' Association

# How Fruit is Picked and Packed at the Oka Agricultural Institute. Precautions taken to Insure the Keeping Quality of the Fruit. Why Wrapping of Fancy Grad: 5 is Practiced

P ICKING and packing apples in the right way is a science. Ignorance in a large measure accounts for the serious loss that results from off condition of apples on arrival, in transit or in storage.

When should we begin picking? As a general rule the apple is ready to pick when the seeds turn brown and the stem separates with comparative case from the 'pur, but this rule is not definite. A man must know from the general ap-

pearance of the apple when it is ready to pick, and this he can only learn from, experience. In a way the color is the best guide. For instance, in the case of Wealthy, Fameuse and McIntosh apple, the color must be a mature one. Duchess may be picked before it reaches its full but were in this case I would not recommend at all picking Duchess too much on the green side.

An apple is generally ready to pick when it is well ripe. This does not mean that the apple should be ripe enough to be eaten, but ripe enough to be shipped, keep well and have a good taste. To pick apples at this stage is very important. As all apples on a tree do not mature at the same time, like in the case of Duchess, we generally make two or three pickings.

#### AVOID OVER-RIPENESS

With red apples there is a may be here see graving tendency on the part of some fruit growers, on account of the beauty of a brilliant red color, to allow apples to hang too long on the tree. Disappointment is many times the result of such a line of conduct. Last fall many growers were just glowing over the nice weather we had, when there came a big wind storm that made windfalls of half of their crop of Fameuse apples. But this is only one side of the matter.

An apple that is allowed to remain too long on the tree is beautiful in color, tempting to taste, and as far as casual observation goes is in perfect condition. This is what fools many a grower. Such apples are neither in a fit condition to carry far or to hold up in cold storage. Inability to judge the proper maturity for picking brings back many complaints from dealers. One year especially, after a very dry and warm summer, we left our MeIntosh and Fameuse too long on our trees, and the falling down in our cold storage plant was

very noticeable. An apple will keep just so long under perfect conditions, and we should endeavor to know just when to pick at least the two best varieties that we have in our Province of Quebec—the McIntosh and Fameuse

The picking of our apples is done every year by our Fathers and a few good students of the Oka Agricultural Institute, under the personal supervision and guidance of one of the Fathers. No matter how perfect may be the picking equip-

Apples are Here Handled Like Eggs and Packed With More Care

All products from the monastery at La Trappe, Que, have a reputation for quality and sell at the qualities the Modes guard the reputation of their products. They may be here seen sorting applicable in the product of the products of the products of the products of the products of the products. They will be easily placed because the product of the products of the products of the products. They will be easily placed because the product of the products of the produ

ment, good results can not be obtained unless the fruit is handled very carefully. There is no doubt at all that a big percentage of the damage done to our tender varieties of apples from broken skins and punctures takes piace before the fruit reaches the packing house. So we train our pickers and do not leave every student who is able to climb a ladder or cat an apple in our picking or packing erew.

#### EXPERT SUPERVISION

The superintendent sees that the fruit is taken from the tree without breaking off the fruit spurs, and that the apples are carefully placed in baskets (made especially for the purpose with osier by one of our old Brothers). These baskets hold about one-half box of loose apples. We think it would be before to line each basket with burtap. Apples should be handled as carefully as eggs for once bruised they do not keep long and have a bad appearance. More apples are bruised in put-

ting them into the baskets, we believe, than in emptying them into the boxes or sorting tables, We always insist that our pickers put their hands clear down into the baskets until the apples can be placed carefully upon the other apples already in the baskets. Care must be exercised in all points. After the picking crew is properly instructed it is absolutely necessary to insist that these instructions are carried out to the letter at all times.

We find that a hook of wire in the form of a letter. 3 is a great help to do work quickly and better, as then one has his two hands with which to work. One end of the hook catches the basket and the other end a limb of the tree or part of the ladder.

They should be strong so that they will last, and give you also the feeling that you can elimb them safely, even with a basket full of apples. Avoid ladders that lean up against a tree because they not only break the limbs but the bark. Wherever the bark is broken, an opening is made where some of the many diseases now prevalent will have a chance to enter. We have tried types of ladders advertised in The Canadian Horticulturist, and found them quite satisfar-

The ladders we use are light but solid. A great many fruit growers think that any old barn ladder that you can lean up against the trees will do all right, but we must to-day adopt modern ways and equipment. Light ladders that are convenient to carry and move around a tree and so compact that they will be easily placed between the limbs instead of require them.

Sorting and grading the apples should be done with care, all apples being handled one at a time We used to sort our apples in the orchard and continue to do so in the case of apples going into But with such varieties as Duchess, Wealthy, McIntosh and Fameuse we think it better to do the sorting and grading in the packing house. We shall mainly dwell here in our remarks upon the grading of apples that are for box packing, as our best tender varieties are all going to be packed in boxes in the near future. It seems really a pity to put up fancy and number one Fameuse and McIntosh apples in barrels, now that we have begun to take to the box. Of course we are speaking only of the best grades as we never put on the market our culls and number three apples. These invariably go to our cider mill or to our canning plant. We still continue to put "p in barrels the number two grade.

We hink it best to sort the apples before they

go to the packing table, as we are not get trained enough to do good sorting and packing from the same pile of apples on a table. It is certain that it is less difficult for our young students to pack the apples in boxes after they are carefully graded beforehand. Also it is presumed that a sorter, having only one thing to perform, might be able to do it better than a packer will, having to pack the apples at the same time.

After a basket is full the picker empties very carefully the contents in an orchard box. which is then put in the express wagon, and after a load is ready the apples are brought to the packing house. Here we should insist upon one point. Every grower intending to pack apples in boxes, should be provided with orchard boxes. The only way to deliver clean boxes to our customers is to use orchard boxes. There is nothing that soils the reputation of a grower more than a bad appearance of his barrels or boxes. The orchard box is made a little larger than the ordinary box and has cleats on the top so that the apples may not be bruised when the boxes are piled on top of one another. These boxes will last long if well cared for.

Our sorting table is quite a long one, so that apples may be put on the entire length without piling them up too high upon the canvas covering, thus avoiding bruises.

THE PACKING TABLE

Our packing tables can accommodate two men at a time. The boxes are inclined towards the packer in such a way that he picks up each apple from the table with the right hand and grasps the wrapping paper with the other hand.

We sort the apples in two grades only, fancy and number one ordinary; it will not pay to pack more than two grades, as every time that an extra grade is introduced it adds about five

cents extra per box to the cost of packing. Only perfect fruit goes in the fancy grade. Number one grade includes only fruit that is a little below fancy, and not perfect. I believe it always pays to keep above the standards set by the Fruit Marks Act; then we never get in trouble with our customers, and our name holds good everywhere.

As to the size of the apples, we first sort them with grading boards which have holes in accordance with the grade size decided upon at the last Dominion Fruit Conference held at Otta-McIntosh generally are wa. graded to 125, 138 and 150 ap ples in a box, and are all a 2-3 diagonal pack. Fameuse may range from 163, 175 and 188 apples in a box, all 2-3 packs also. These packs all contain five rows of apples and only vary in number of apples lengthwise.

We believe that every package of fruit should be lined with paper. We feel certain that when apples are wrapped they carry better, bruise less, arrive in better condition and keep longer than unwrapped fruit. The packing paper consists of a layer of paper of a spongy nature (don't get glazed or semi-glazed paper) for lining, and a soft tough paper like the "Duplex," for wrapping. We find ten by ten to suit us very well,

though eight by eight would do for the Fameuse. Part of the wrapping paper is stamped with our College motto in red color. This paper is used on the top layer at least, so that when a package is opened and displayed, everyone may know where the box came from, even though the label on the end is invisible.

Don't buy cheap paper. One never saves any-



A Wagon such as this is Very Desirable for Transporting Apples This outfit is in use at the La Trappe Monastery in Quebec. Its principal recommendations are the strong springs which protect the fruit from bruising in transport from the orchard to the packing house.

thing by doing so. Cheap paper will break or tear when wrapping, so that the time lost, let alone the appearance of the pack, will more than offset the difference in price of first and secondclass material. A tray for holding the wrapping paper is found very convenient. This tray is made so that it can be fixed on the side of the packing box. We avoid in mostly all cases using the straight pack, and find that all our Duchess, Wealthy, McIntosh and Fameuse can be accommodated with the diagonal 2-3 pack.

PACKING HOUSE ESSENTIAL A packing house is essential when a fruit grower



A Style of Table used at Ta Trappe for Packing Apples in Boxes ne method of box packing practiced at La Trappe, Que., is described by Father Leopold in the freductory article this week. Notice the paper holder to the extreme left, the style of baskets used in the orchard and the box press to the right.

wants to put up extra fine fruit. It should be well lighted, of convenient size, and well arranged for carrying on this important part of the fruit problem. In order to put up apples in the most perfect condition it is necessary after picking to get them quickly into a cool place, where they will be protected from the sun. When the grower packs in the orchard the apples absorb heft from the sun. The less heat there is in an apple when

(Continued on page 15)

#### Educating for Good Citizens

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

The young man is a progressive man. I don't believe there is a young man anywhere who has not ambitions of some kind even though it may be hard to fathom what they are. This desire for improvement is now making itself felt in cary

department of life where young men have assumed command As we get older we get better satisfied with things as they are mainly because they are of our own creating and we lose our desire to strive for higher and higher ideals. Hence the value of getting a

young man embarked on business while his ambitions and ideals are fresh. Those of us who are older may not like to admit it, but it is true that the great proportion of improvement in the world must be the work of the younger man.

In business the world has fully realized this Everywhere young men are desired. We older men have fitted agricultural colleges, we have established a system of district representatives in two provinces, in the city we have technical schools; all designed to better

fit young men for pushing on the industries of the world.

WHERE TRAINING IS L. TKING

But how much attention are we giving to the training of good citizens? The state is the biggest business in the world. Take Canada for in-The Dominion revenues run well over \$1,000,000,000 a year. What private industry is there in our country that begins to compare with the business of the Dominion in just a purely financial sense? And how little the most of us know about that business. What little we do know we learn from a partisan press, from par-

tisan speakers at partisan meet ings or from partisan discussions among little groups of neighbors.

As a matter of fact partisan ship is not a necessary part of the government of a country. There was government long be fore there were political parties. What we want our young men to know is something about the great principals that underlie government. How many of our young men for instance, on leav ing school, are able to discuss intelligently the relative advantages of protection and free trade? How many are inform ed on the relative advantages of indirect versus direct taxation? Of government ownership and operation of public utilities versus private ownership and operation? And so I might go on at length.

I think all must agree that our young men get little, if any, training along this line. Before we have learned enough about the principals of government to really cast an intelligent vote we are getting old and set in our views. I believe that our country suffers an inestimable loss because of the lack of intelligent voters among the yo nger

I have heard different suggestions for the (Continued on page 15)

ANGELS and much above to pests than therefore, to begin p date of pulling mu locality. In some of to pull a few days later. The roots sho growth as possible, i to maturity the gr value, and they will winter. If pulled to come soft, and heat; in storage.

The common pract in taking up mange grow well up out of top them by hand. both hands, then all gether, and with a broken off. It is mu the tops off by hand knife they are more ARRANGE

For convenience in throw four drills into for both pullers and l ger of frost, allow th ground 24 hours afte as this will improve drying them, and an much easier before re there are any indication either housed or cove degrees of frost will in pulled. Should mang them to remain in th handling them, as the will break the skin as

Sugar beets and ca harvest owing to their It is best to run a subsc within a mouldboard loosening and cutting fibrous roots, and thus up several roots at or pulled and laid in roy knife and thrown into b ience in loading. Th and sugar beets in mos ber 20 and 30.

Turnips being much the ground longer, as injure them so long as t being housed or pitted. There are several wa

which are quite success to top them with the or roots out with a sharp-e board removed. By stri together the turnips ca turned inwards on the r ly visible for loading in other plan is to top wi drag them out of the by harrowing across the lap if necessary. This sandy soil, but in clay siderably injured, and earth clinging to the r With this plan the tops

before harrowing. When help can be see pulling and topping by h knife, is preferable. On oot, the second stroke to a slight swing while cut

'This is a portion of the on "Growing Roots" before of the Senate on Agriculture

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# EXPERT ADVICE ON HARVESTING AND STORING ROOTS \*

Jno. Fixter, Conservation Commission, Ottawa

ANGELS and sugar mangels, growing so much above ground, are more susceptible to pests than other roots. It is necessary, therefore, to begin pulling about October 15. The date of pulling must be regulated according to locality. In some districts it may be necessary to pull a few days earlier and in other districts later. The roots should have as long a season of growth as possible, for the nearer the roots come to maturity the greater will be their feeding value, and they will keep better and later during winter. If pulled too early they are apt to become soft, and heat; and if frozen they will spoil in storage.

The common practice, and the most advisable in taking up mangels and sugar mangels which grow well up out of the ground is to pull and top them by hand. Each root is pulled, with both hands, then all the tops are gathered together, and with a sudden jerk the tops are broken off. It is much better to break or twist the tops off by hand, for when topped with the knife they are more liable to decay.

ARRANGE FOR THE CART

For convenience in loading into carts or wagons throw four drills into one row; this is convenient for both pullers and loaders. If there is no danger of frost, allow the roots to remain on the ground 24 hours after being pulled and topped, as this will improve their keeping qualities by drying them, and any soil pulled will shake off much easier before reaching the root cellar. If there are any indications of frost, roots should be either housed or covered with leaves, as a few degrees of frost will injure mangels after they are palled. Should mangels get frost bitten, allow them to remain in the field to thaw out before handling them, as the least handling when frozen will break the skin and encourage rot.

Sugar beets and carrots are more difficult to harvest owing to their long underground roots. It is best to run a subsoil plow or an ordinary plow within a mouldboard along one side of the row, lessening and cutting off some of the strong fibrous roots, and thus enable the puller to take up several roots at one time. They are usually pulled and laid in rows to be topped with the knife and thrown into baskets or boxes for convenence in loading. The time to harvest carrots and sugar beets in most districts is between October 20 and 30

Turnips being much hardier should be left in the ground longer, as a slight freezing will not injure them so long as they get thawed out before being housed or pitted.

There are several ways of harvesting turnips which are quite successful. One of the easiest is to top them with the ordinary hoe, and turn the roots out with a sharp-edged plow with the mouldboard removed. By striking the tops of two rows together the turnips can be plainly seen, and if turned inwards on the row of tops they are clearly visible for loading into wagons or carts. Another plan is to top with the ordinary hoe and drag them out of the ground with the harrows by harrowing across the drills, letting the harrow lap if necessary. This method answers well in sandy soil, but in clay soil the turnips are considerably injured, and as a rule there is more earth clinging to the roots than is desirable. With this plan the tops have all to be removed before harrowing.

When help can be secured the old method of pulling and topping by hand, using a large heavy knife, is preferable. One stroke to cut the tap oot, the second stroke to cut the top off, and by a slight swing while cutting the top four drills

\*This is a portion of the paper read by Mr. Fixter on "Growing Roots" before the Standing Committee of the Senate on Agriculture and Porestry.

are thrown into one row for convenience in loading. Turnips should be left on the ground a day or two after being pulled, as they are not so easily injured by frost as other roots.

The ordinary low wagon will be found best for drawing to the cellar or pit, as it is advisable to run the roots over a slatted chute so as to sift out the earth. No tops should remain on the roots, as they will soon decay and injure the roots. Where the roots drop into the cellar they are liable to heat unless a ventilating shaft is first put in as close to the opening as possible and running from the bottom to the top of the root cellar.

There are two important matters in connection with the successful storing of roots. The first is to keep them sufficiently cool, the second to prevent them from freezing. Heat will spoil them as quickly as frost.

VENTILATION

The principle of ventilating the root cellar is

an even temperature in the pit. To ascertain the temperature an extra shaft may be put in to allow a thermometer to be raised and lowered, and temperature noted, as heat and frost have to be guarded against.

## Big Records or Real Cows

Jas. Voden, Middlesex Co., Ont.

Well done Prof. Barton! It is not often that ve find a man with back bone enough to stand up in front of a bunch of breeders of dairy cattle and tell them that it is real cows and not big records that we want. I have just read Prof. Barton's address before The Menie District Ayrshire Breeders' Club in Farm and Dairy, Sept. 25, and think the Professor's ideal about right-a herd of cows with a uniform production of about 10.000 lbs

I believe that dairy farmers generally are large ly responsible for the craze for big records. We are continually running after cows from high record stock. For instance, the man who goes to



The Judging Class, a Feature That Might Well be Incorporated in the Program of Every Fair Watching the placings of the judge in the regular clause does not teach the young man one-half as much as actually placing the animals himself; hence the value of the judging competition. The illustration herewith is from a photo taken at the Perth (Ont.) Fair. Many fairs already have these competitions. Others would do well to fail in line.

the same as that required to cause a draught in the stove. There should be shafts made down outside the wall to enter at the level of the floor below, with large openings directly through the roof The outside doors and windows should be kept open every day until there is danger of frost. To keep out the frost have the root cellar at least two-thirds below the surface of the earth. Then about December 15 it may be necessary to bank up to the roof with stable manure.

Where there is no root cellar, or insufficient room, roots may be pitted successfully. Select a high, dry spot convenient to the buildings. Mark out a pit the required length and about five feet wide, and excavate two or three feet deep, but if there is danger of water, excavate only three or four inches. The earth should be laid along the sides for covering. Build the roots up to a point three or four feet high, then cover with straw about four inches and with earth about eight inches. This covering may be sufficient until about the middle of November. Then cover with four to six inches of stable manure and 12 inches of earth. To make provision against ex cessive frost it is now advisable to cover the pit the last of December with long stable manure.

To ventilate the pit, take two boards one inch by six inches and eight feet long, nail good strong strips of wood crosswise up three feet, the other five feet to be boarded solid, leaving the top open until severe frost comes. Then put a bunch of straw in to keep the frost out. These shafts should be in every eight or 10 feet apart along the pit, the slat work to extend through the roots to the bottom of the pit. It is desirable to keep the States and buys a bull from one of their cows with a top-notch record, immediately finds his stock in demand. And yet the dam of that bull even with her great record, may be a very undesirable cow. I have in mind one of those cows over there with a record of over 34 lbs. of butter as a three-year-old that is shallow in the body and poorly constitutioned. Just how she made her great record I do not know. It must have required a degree of skill or of trickery on the part of the feeder that the rest of us do not possess.

I have all respect for a big yearly record. I have still more respect for a cow that comes back with a big record from one year to another. They indicate the right kind of stock. But what does a big short-time record mean? It may mean that the cow has been pampered and fed and fattened to give her the best opportunity for a short-time spurt. It means a degree of feeding that no farmer who has to make his living from the milk that his cows make can afford to give. Even longtime records, where there are no breeding requirements, appeal to me as being of very little value from the standpoint of a practical dairyman. This I consider the strong point of our Record of Performance system as compared with the United States system. The cow has to freshen again within 15 months. If I had my way I would make it 12 or 13 months.

From my observations and experience I would say that farmers would do well to take Prof. Barton's advice to heart and to be rational in their demands for records in order that they may produce real cows, even if they don't get their pictures in the paper as leading breeders.



# Stop Cheating Yourself Mr. Farmer

A good many farmers cheat themslves out of hundreds of dollars a year without knowing it. Also they get cheated by the other fellow without knowing it. It works both ways.

There is always a chance to lose money on anything you sell or buy by weight if you do not know the exact weight. You are always at the mercy of the other fellow so long as you go on the "guess work" plan. So long as you are without the proper kind of a scale you lose enough money every year to pay the wages of a good hired man.

The proper kind of a scale. What is the proper kind? There is only one scale that is entirely satisfactory for farm use-The Renfrew Handy Two Wheel Truck Scale. This Scale is especially built and designed for every day farm use. It isn't an ordinary scale to be located in the Barn or the Dairy or any one spot. It is a "Handy" scaleconvenient for every farm need.

It will weigh anything from a pound to a ton. You can wheel around just like a truck wherever you want to use it and wheel it back again to the barn at night. It is a pleasure to use this Handy Scale and you very soon get into the habit of using it everyday-to weigh your milk or your cream or your calves, hogs, cows, also your hay, feed or chop or anything you want to sell.

Lots of farmers could tell you where the Renfrew Handy has paid for itself the first week. We could tell you of hundreds of instances where this convenient scale has saved farmers hundreds of dollars a year by actual record. The Renfrew Handy is not an expense. It is as necessary to profitable farming as a wagon or a horse. If you want to know just how the Renfrew Handy Two Wheel Truck Scale will pay for itself in 30 days on your farm, write us to-day telling us how many acres you farm and we will give you facts and figures that will surprise

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#### THE DRESSING AND MARKETING OF VEAL CALVES

Bu W. H. Tomhave

directly to the stockyards where they are sold to large packing houses. The bulk of dressed veal is slaughtered on the farms, or by local butchers. It is then shipped to commission merchants in large cities; or, in some cases, directly to retail butchers and hotels. Compaints are quite often made that the veal caives shipped on

note:a. Complaints are quite often made that the veal caires shipped on foot remain in transit too long without food. There is, no doubt, room for criticism and a chance for improvement along this line. Caires are if a hipped on forther a laughtered. They have been kept from their dams too long and meat of the best quality cannot be expected. The quality of this veal, however, is in most instances better than that of much of the veal which is improperly slaughtered and prepared on the farms before shipment. There is no reason why farmers cannot supply the best quality of veal directly from the farms, and ship it to the market dressed.

FEEDING VEAL CALVES

The best quality of veal can be preduced only by feeding whole milk, the color of t

make inferior veal which does not se'l as well as that from older calves. se'l as well as that from older calves. On most markets, calvos weighing less than 56 pounds are condemned as unfit for food. Veal that is too heavy or old becomes coarse in flesh and bene, and consequently is in less demand. There is a greater demand for the middle-sized veal, because chops or steaks cut from such carcasses are not too large to meet the demand of the average trade. The small local markets usually make little discrimination so far as the weight is concerned.

CRADES

The size, quality and finish of the The size, quanty and mission to voil carcass determines its grade and value. This will range from choice to light, or common and heavy. The following table gives the classification made on most markets:

Usual

Grades

Inhi or common 59-78 150-60
Inhi or common 59-78 150-60
Inhi or common 59-78 150-78 15

Proper dressing and snipping.

HANDLING PERFORM TO SLAUGHTER

Veal calves, like other classes of
animals, should be kept off feed from

18 to 24 hours before they are
slaughtered. The reason for this that
the blood vessels are not then

EAL caives are shipped both filled with nútrients. It is therefore all that are shipped alive go completely and produce meat a better directly to the stockyards where they ter quality. Care should be taken filled with nutrients. It is therefore possible to remove the blood mass completely and produce meat of better quality. Care should be taken that the calf is not overheated, excited, or feverish when shaultered. Such an animal invariably produce a carcass that is very difficult to keep from craftice.

from spailing.
In dressing yeal, the first or ation is the selection of a p which to do the work. It she which to do the work. It should be clean, in order to get a dry, attractive carcass. The best method is to use a small, stout rope, and hang the calf by its hind legs. This can be done by means of a rope and palley. This keeps the carcass clean and allows you to stick the calf while it is in a hanging position. The blood will drein out much more quisidy than if the calf were bled while lying on the ground.

on the ground. KILLING

It is always advisable to stun the calf before sticking. This may be done with a hammer as it does not require a heavy blow. Soon after stunning, insert the knife just in front of the brisket, making a leng slit down the centre of the threat. The incision should be deep enough to reach the arteries and free the wind pipe and gullet. Be sure to make a large clean opening.

After the blood has been drained from the carcass, begin to skin are

from the carcass, begin to skin on the head. Begin at the muzzle and split the skin through the centre the face to the poll. Skin each chee to the back of the head and remor Skin each cheek the head by cured g the atlas which is about an inch back of ear. Sever the muscles on both sides and it will not be necessary to us an axe or saw to remove the head

as it is easily done with a knife.

Next skin out the front shank, cu Next skin out the front snans, or ting just across the lower end of the enlargement of the knee joint so as to strike the "straight joint" so as to strike the "straight joint which may easily be located by "working the joint." Slit the ski of the front shank well down past the dew claws and remove the shank. This is all the skinning that is done to the foregree the first part of the straight part on the fore part of the carcass.

BKINNING HIND QUARTERS SKINNING HIND QUARTERS
The shank of the hind leg is not removed. This is done by cutting across the "straight joint," who is found in the lower portion of the hock just where it begins to enlarge hock just where it begins to enlas Skin out both sides of the sh as in skinning the fore leg. M an opening through the hock je through which the gambrel is to placed when hanging the care This is all the skinning that is do no a veal call before it is ship No portion of the hide should be moved, as that would make it is more difficult to keep the care even, and all to be caretas even. dry out too rapidly.

In removing the viscera or internal organs, make a cut through the m through to the pelvie bone down through to the breastbone. Cut the skin around the vent, so that the return can be drawn down with the paunch and intestines.

INTERNAL WORK
Expose as little of the inside # Expose as little of the inside a possible; being careful not to remote the liver, as that should always ne main in the carcass. Loosen the wise pipe and gullet at the briske with knife. Then cut the diaphna which separates the lungs from the heart and stomach. In doing the cut just outside of the layer cut just outside of the layer of a cie which holds this membrane place. Loosen it along the sp column, and there will be little no difficulty in drawing the h and longs out through the ope that has been made at the middle Remove any particles of blood



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dirt that may be on the inside with a clean cloth. Wipe the neck and brisket thoroughly immediately after saughtering. It is almost impossible to remove the blood stains or dirt of any kind after they dry. Do not wash the inside of the carcass.

wash the inside of the carcass.

COOLING

A thorough cooling if the veal carcass, before shipment, is very important. This is especially true in warm weather. It is a good plan to spread the opening which is made through the midline, and hang the carcass in some coal place, where it may be thoroughly cooled without exposure to flies, insects, or dust. A cool cellar,

some cool piace, where it may be thoroughly cooled without exposure to flies, insects, or dust. A cool cellar, with a .ree circulation of air, is a desirable place to cool the careass. After the careass has been thoroughly cooled, take that portion of the hide which has loosened from the hide which has loosened from the hide which has loosened from the suffer and fold back over the neck. This house he had a solid when a stout down the security ided with a stout down to be suffered to the suffer of the suffered that the suffered has been back over the legs, and its hanks back over he he had he ha

In shipping veal, it is always a good plan to try to ship to some commission firm or ment dealer whose reputation for reliability is known. The shipping tag should state by whom and from what place the calf plants of the person of firm to whom it is considered to the person of firm to whom it is considered to the person of firm to whom it is contained to the week in the wealth of the work is in the bands of the work is the work in the work in the work is the work in the work in the work is the work in the work in the work is always to be work in the work in th

day.

Ship by express, as freight service is usually too slow. Never attempt to ship veal by freight, unless refrigerator service can be had. Always make it a point to write the firm to which the veal is shipped. In case it harmans to ha missent or last the expression of the control of the

make it a point to write the firm to which the venil is shipped. In case it happens to be missent or lost the express company may then be more promptly notified to trace it. The handling of veal by the express company in the control of the contro

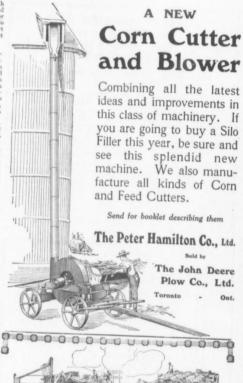
#### Rotation vs. Disease

Rotation vs. Disease

By A. F. Woods.

The accumulation of noxious weeks, diseases, and insects on the farm is one of the most serious sources of loss. This results as a rule from the constant growth or rule from the constant growth or too long continued culture of the same rule. With in various crops, on the constant growth or warmer than the constant growth or warmer than the constant of the c

an extent that ultimately it becomes impossible to secure profinible returns from land thus intested. Resistant varieties must these secured or crops cultivated on anna subject to those pests. All these troubles can be avoided and the fertility of the soil greatly improved by intelligent systems of rotation.



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## \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* HORTICULTURE

#### The Fruit Crop Report

"There has not been for many ears such an unsatisfactory state of years such an unsatisfactory state of affairs in Canada so far as the apple crop is concerned," says Mr. A. McNeil, Chief of Fruit Division, Ottawa, in his most recent summary crop conditions in Canada. British Columbia to the Atlantic coast reports, except in a few favored coast reports, except in a few favored localities, state that the crop is below average and in many sections, particularly from Ontario east, total failures have been recorded. Several causes have brought about this result, the primary one being the extremely dry weather which prevailed during the early part of the season and which caused a very heavy drop of fruit in

caused a very heavy drop of fruit in many localities.—four infestation of tent caterpillars in June and July also assisted in lowering the yield, but this is something that the growers could have controlled. In earlier re-ports attention has been called so often to the importance of spraying that it is not necessary to dwell further upon it now. It is sufficient to state that the caterpillar situation might have been obviated by a concerted effort on the part of the grow-ers. In many sections, too, severe ers. In many sections, too, severe hail and wind storms further reduced the crop.

#### NO CHANGE IN MONTH

"There has not been any material change in the situation since last month. Some localities, however, have been favored with showers, which have helped the development of which have helped the development of the later varieties, and if no unfavor-able conditions set in during the next few weeks, it is reasonable to hope that most winter fruits will be of fair quality. Unfortunately there is an almost universal complaint that apples and pears are generally smaller in size than in the ordinary veer.

"The average for the whole Dominion is estimated at 48 per cent. of a full crop of fall and winter

apples."

The pear crop in Ontario varies from fair to excellent, although the fruit may be smaller than in an average year. In Nova Scotia pears are decidedly short, as they also are in British Columbia. The plum crop has been the largest harvested in Ontario in many years. Nova Scotia on the contrary has a light crop. The British Columbia crop is heavy.

There is a heavy crop of peaches in the Niagara district, and of good in the Niagara district, and of good quality. It is quite possible that there will be a late glut, with low prices to the grower. In Essex, Kent, and Lambton there has been a fair yield. In British Columbia there has been considerable loss from dry

#### PEACHES FOR THE WEST

weather

prominent shipper of Niagara ct." writes Mr. McNeil, "has district, marked car lots of peaches in the North-West. Those responsible for the packing are to be complimented on the care and neatness exercised. The report received from Winnipeg, and dated September 10, states that, while some of the fruit arrived in good condition, and would hold up for a few days, yet at least an equal at once or was over-ripe and showing 25-50 per cent, waste. The fruit was of excellent color and size and had it or excellent color and size and had it been packed, at the same stage of maturity, there is no doubt that it would all have reached Winnipeg in prime condition. The packages and packing were excellent, and it is unfortunate that this enterprising ship-per did not meet with even greater success."

#### Fruit Markets Abroad

From Glargow comes a report that there is a shortage of pears in the British Isles. This means a demand in the Old Country which in an aver-age year could be supplied by Canadian fruit. Rapid strides have bee made in the export rink trade in recent years, not only with Great Bitain, but with Germany, South Africa and Australia as well, and Canadians should be quick to grasp every opportunity of widening these markets and supplying them with reputable and are rapidly coming into bearing in all the fruit-producing sections of Canada, and it is reasonable pose that this production will pace the concurrent increase in sumption. The importance veloping an overseas market fore becomes evident, and our am-bitious growers are to be congratulated on the foresight and perspica-city which they have already shown in this connection.

The Old Country market has, of course, been receiving Canadian fruit for many years, but the reports which have been received upon these ship have been received upon these ship-ments have not always been of the most favorable nature. Since the formation of a central selling associ-tion in Nova Scotia some improv-ments have been made, and though last year was not a good one, in the province, yet the number of unfavoable reports was not great, and the general impression made upon the consignees in Europe was good. This year, the crop in Nova Scotia is again poor, but so long as the growers are content so pack their blemished apples as No. 3's and do not attempt to include them among the higher grades, they may still retain the public favor.

THE AUSTRALIAN MARKET

The Australian market, for very obvious reasons, has been chieft supplied by Pacific Coast fruit, and this year with a central association established in British Columbia it is reported that some 30,000 boxes of choice fruit will be exported to the Antipodes from that province.

With these two models of coopera-

suppose that success will meet the union of the Ontario associations is to a central agency and Canadians will await with interest the result which follow the handling of the year's crop which will reach the 0% Country in large quantities, and which is struggling to hold its om

We hear very little of the South Africa market, and yet it is one in which Canadian fruit is already belt in some repute. which Canadian fruit is already sig-in some repute. It is not a maist which has in any season received it quantity of fruit which would set adequate, for it is closer to Halia than British Columbia is to Martialia. The box package is preferre by the South African dealers, and in that reason they have looked to botish Columbia for their fruit. I glance at the map of the world, her ever, will show that Nova Scotia the natural source from which is supply should come, and even is year in spite of the poor crop, so fruit is being exported to this mai from that Province.—Report No.

Enrich the garden plot with is poultry droppings.

We had a fine crop last year, some 1,600 barels 1,300 which grew on 14 acres of land a on trees 21 years of age. Much on trees 21 years of age. Such this fruit was of a fine quality a fairly well colored. We had so scale in one part of the orchard to incessant rains at the time spraying; otherwise the fruit in fine. It was shipped to the British market.—R. R. Sloan, Huron Que.

ONDITIONS op this yea but so far be about the weather o imp ase crop bein ver, was ver rotted badly and half of the crop wet cold, wet spring iod of drought ove the province and t quently be short, too carly to estimof the mid-se very unfavorable t of blight and conse crop is of good cally all marketabl are now 75 cts. a identically the same

last year at this ti In such a large p conditions may be greatly. The foreg an average of all r from Farm and Da correspondents local province. In Easte crop will be consic average, early frost able damage but on will be fair. Some ern Ontario, notably adjoining counties, from 75 per cent, to is true of the potato of Middlesex. Fro mistic reports, even farmers will have to their own use and fo as been very bad th

One of Farm and pondents, Mr. Georg ington county, make new disease, potato c that the area affecte extended. Another is raised by Mr. Chidlesex county, who r dier bug as playing h beetles, proving a mo edy than any spray a fie says, "the cheape Similar re work by natural enem. beetle come from oth province as well.
It would seem tha

potatoes at Ontario ce will be determined la abundance of the yiel time provinces. From hand Farm and Dairy that potato prices thi about the same as t respondents follow:

FAIR CROP IN CA

"Potatoes will be a f in the season they suffdrought, but a heavy 12th saved the crop. B 12th saved the crop. B Co., Ont.

"Late potatoes caug frost will not be a quart planted ones half a planted three-quarters of blight or rot. for bugs.—J. A. Se: Haliburton Co., Ont.

'Many late tubers wer before ripe, but the yie cases will be fair with to size and quality. Very seen this season."—H. Hastings Co., Ont.

"Early potatoes are a light crop. The late cr hurt by the frost but to I cannot say yet. Our the same as in former yea noticed neither bugs no Judson Kelly, Hastings

# PROSPECTS FOR ONTARIO POTATO CROP ONLY FAIR

CONDITIONS affecting the potato crop this year are widely different from conditions ruling last year but so far as monetary returns the crop are concerned results be about the same. In 1912 favweather conditions led to an oral e weather conditions led to an immune crop being harvested. Blight, however, was very general, the crop rotted badly and not more than onerotted baddy and not more than one-had of the crop was marketed in a satisfactory condition. This year a cold wet spring, which delayed planing, was followed by a long per-jed of drought over large sections of the province and the crop will conse-mantly be short, how short it is we questly be short, how short it is yet too early to estimate. The dry weather of the mid-season, however, was very unfavorable to the development of blight and consequently this year's of blight and consequently this year's crop is of good quality and practi-cally all marketable. Toronto prices are now 75 cts. a bag in car lots,— identically the same as was being paid

identically the same as was being paid last year at this time.

In such a large province as Ontario conditions may be expected to vary greatly. The foregoing summary is an average of all reports as received from Farm and Darry's special crop correspondents located throughout the province. In Eastern Ontario the crop will be considerably below the crop will be considerably below the average, early frosts doing considerable damage but on the whole returns able damage but on the whole returns will be fair. Some portions of Western Ontario, notably in Waterloo and adjoining counties, the crop will vary from 70 per cent. to full. The same from 70 per cent. to full. The same is true of the potato growing sections is rue of the potato growing sections of Middlesex. From Sincoe county correspondefits send very pessivate reports. even claiming that our correspondents send very pessi-mistic reports, even claiming that farmers will have to buy potatoes for their own use and for seed. The same is true of Essex where the drought

has been very bad this season. One of Farm and Dairy's correspondents, Mr. George Wright of Wellington county, makes mention of the new disease, potato canker, but states hew disease, potato cather, but states that the area affected is not widely extended. Another point of interest is raised by Mr. Chas. Macfie, Middlesex county, who refers to the solution in the property of the solution of the county. dier bug as playing havoc with potato belong as playing havor with potato beetles, proving a more effective rem-edy than any spray and as Mr. Mac-fie says, "the cheapest brand on the market." Similar reports of good work by natural enemies of the potato come from other parts of the province as well.

It would seem that the price of

It would seem that the price of potatoes at Ontatio centres this year will be determined largely by the abundance of the yield in the Martin time provinces. From all reports that potato prices this year will be about the same as they were last year. The reports of some of our correspondents follow: respondents follow:

#### FAIR CROP IN CARLETON

"Potatoes will be a fair crop. Early rotatoes will be a fair crop. Lany in the season they suffered from the drought, but a heavy rain on July 12th saved the crop. Bugs have been few."—John A. Davidson, Carleton

tes."—John A. Davidson, Carleton Co., Ont.
Late potatoes caught with the Late potatoes caught with the rest will not be a quarter crop. Early planted ones half a crop, medium planted three-quarters of a crop. No blight or rot. Sprayed three times light or rot. Sprayed three times for bugs.—J. A. Seymour-Taylor, Halburton Co., Ont.
"Many late tubers were frozen down before ripe, but the yield in most

hann late tubers were leaven down before ripe, but the yield in most cases will be fair with tubers of good size and quality. Very few beetles seen this season."—H. S. Tucker, llastings Co., Ont.

"Early potatoes are a medium to light crop. The late crop has been aurt by the frost but to what extent I cannot say yet. Our acreage is the same as in former years. We have noticed neither bugs nor blight."— Judson Kelly, Hastings Co., Ont. "The crop has suffered from

"The crop has suffered from drought and the season was shortened by frost. Consequently we will have little over half a crop. have heard of canker once or twice."

The potato acreage is about the same as usual with a 75 per cent. Season was also as a consequence of the consequen

THREE TO THE HILL

"Potatoes average three medium sized tubers to the hill. They are generally free from scab and blight."

—C. Nicholson, Dufferin Co., On "Potatoes are not grown here to a commercial extent. Late potatoes were fairly free from bugs; blight was noticeable on some patches. With the potatoes are a failure, the very late of the potatoes are a failure, the very carly one are a failure, the very carly one are a failure, and the potatoes are some patches, will be the smallest ever gathered. Wost farmers will be compelled to be starters will be some as well as for see present the potatoes of use as well as for see from the potatoes of use as well as for see from the potatoes of use as well as for see from the potatoes of use as well as for see from the potatoes of use of the potatoes of the po

Simcoe Co., Ont.
"The potato crop will be short as compared with previous years. I have not heard of anyone with rot."—Wm. Lockheart, Simcoe Co., Ont.
BELOW THE AVERAGE
"Compinion dry weather will result

"Continued we are a potato or period we average. The areage much less than last year. The areage much less than last year. There are also period or or."

R. R. Sloan, Huton sign of not."

"The acreage is less than last year, but the quality of the crop is better. Tubers are of good size but few in a hill. Bugs were plential, but no blight."—Jas. A. Lamb, Bruce Co., Ont.

"Potatoes are about half a crop. Some fields are almost a failure, but in no case are the up to fillure, but in no case are the up to fillure, but in no case are the up to fillure, but in no case are the up to fill t "Potatoes are about half a crop

AN OPTIMISTIC REPORT

"Potatoes are a good average crop, fine and dry when cooked, and free from blight, Darmouth, Deleware and from blight. Darmouth, Deleware and Caradoc townships are famous for potato growing. They all have fine fields and are looking for good yields. Bugs were not bad."—Jas. E. Orr. Middlesser Co., Ont. "We have had some blight. Late planted potatoes missed the bugs, but were recently caught by frost. They are immature but will harden. Prospects are for a good yield,—Chas.

are immature but will harden. Prospects are for a good yield.—Chas. Macfie, Middlest. Co., Ont.

"Prospects for the potato crop this year are much better than last year as we have had no blight or rot. The acreage is not up to former years."

Jas. Laird, Lambion Co., Ont.

"Potatoes are a fairly good crop. The acreage is not increasing; the blight is not as bad as usual."—J. W. Kennedy, Kent Co., Ont.

DROUGHT IN ESSEX

"The peato crop is very poor, the early open to cop is very poor, the early open to cop is very poor, the early open and the early. We have not has good as the early. We have not has good as the early. We have not has good as the have peated to the ground. The crop will not to make the ground. The crop will not to cop third of last year. Blight was accept third of last year. Blight was come but bugs were plentiful."—L. C. Palmer, Essex Co., Ont. "Late potatoes will be almost a failure owing to the long drought. (Continued on page 15)

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## Some Difficulties

By F. C. Brown

In asking for information in regard to several details of management, a subscriber raises some points of such general interest that it may prove instructive if I deal with them

in this column.

Is it better to keep fowls in small flocks shut up in small runs, or large flocks on free range? is an old problem. Confinement too restricted is not good for any bird, and having a free range a small flock will do much better than in confinement, provided, of course, that where winter eggs are desired the birds have comfortable quarters and good scratching accommodation in which they can shelter in cold and unfavorable weather. course, a small flock will always give a relatively better profit than a large one—indeed, it will generally be found that the greater the number of birds run together the lower will be the

average return. The use of a male bird is unnecessary unless the eggs are required for

sary unless the eggs are required for hatching purposes.

As to the desirability of providing grit as well as oyater-shells, some breeds will certainly do well on sea-shells alone. As a preventive of liver-troubles, however, sharp gravel grit is always advisable, and in the case of some of the heavier breeds it

is essential. There is no best-balanced ration. There is no best-balanced ration. The most satisfactory results are obtained where a hen is allowed to balance its own ration, especially where the birds are of varying laying capacity. Green stuff cannot be oversupproviding, of course, the birds are fed a sufficiency of other materials

—a good warm mash in the morning -a good warm mash in the morning (two parts pollard to one of bran) mixed with skimmilk or meat soup, boiled meat at midday (as much as the birds will readily eat up), and grain at night

Providing the birds are of a heavy laying strain, give them as much food laying strain, give them as much looks as they can consume at each meal. No definite amount can be stipulated as to the daily supply for a flock of birds, as their appetites vary much according to the season, the weather and the laying condition of the birds.

## Veterinary Notes

Charles Keane, D. V. S., San Francis-co Veterinary College.

Disturbances in digestion are by far the most common ailments of cows. On the first signs of indisposition in a cow the food should be investigated, and at this time if a savestigated, and at this time if a sa-line purgative is administered the at-tack will often be aborted. A drench consisting of one to one and a half pounds of Glauber's or Epsom Salts in solution of water is the best purgaat this time.

Inflammation of udder in cows is often infectious and can be carried from the effected to healthy earried from the effected to healthy members of the herd on the hands of the milkers. A good practice to fol-low is to segregate any animal show-ing disease of the udder until it has recovered. The milker should was and disinfect his hands after milking.

DEPRAYED APPETTES
Deprayed appetits (pica) in cows,
in which they appetite (pica) in cows,
in which they are the compared to t

Young calves suffer from a variety

of diseases, such as inflammation of tion of a purgative dose of Glauber's the joints, (joint iil), diarrhoea and or Epsom Salta is advisable. Milk pneumonia, that are due to infection sometimes becomes red tinged after taking place through the unhealed standing a while. This latter condiumbilical cord (navel string). These tion is due to the presence of a micro affections can be stopped by a thorough cleaning and disinfection of the calf barn, and washing the navel with a three per cent. solution of creolin.

organism that enters the milk after milking. Thorough attention to clean-liness and sterilization of milk utensils, will prevent the condition



No Trouble to Dispose of Dressed Poultry Such as This se are selected, crate fattened chickens packed in two styles as photographe an editor of Farm and Dairy at the Peterboro Cold Storage. The left hand is a breast pack To the right the chicks are packed back up. Which pack do you prefer?

after which paint it with tincture of iodine.

Cows lose their calves (abort) from a variety of causes. Infectious abor-tion is very prevalent in the dairy herds of this country. For this rea-son, take no chances. Isolate immedson, take no chances. Isolate immediately every cow as soon as he shows signs of impending abortion. When she aborts burn the ealf and its membranes. Clean up and disinfect all discharges. Wash her hind parts with a three per cent. solution of creolin. Keep her out of the herd until all signs of discharges have disappeared.

Never use force to remove a calf om a cow unless you are sure the calf is in the right position. Undue force used when the calf is in some positions will result in severe lacera-tion and tearing of the cow and might result in her death.

Mastitis (inflammation of udder) may be often induced in a cow by rough milking when the teats are sore or chapped. Chapped teats may be relieved by gentle rubbing with vaseline before and after milking. Several applications of zinc cintment to sore teats, after cleaning them, will re-

lieve most cases.

Bleeding from the navel cord in a calf may be stopped by tying it firmly with a clean piece of string. Before tying always be careful to examine the cord to see that it does not contain a loop of the bowel.

#### A Time Saver

C. F. Whitley, In Charge of Records, Ottawa.

The favorable weather of June bringing some good records of milk



The Kind of Cattle in Demand out West Now-a-Days This is Auggie Cornucopia Palestine, the champion dairy cow at the Red De Pair this fall Sounce and the several between the Pair this fall. Sounce and the several between the Pair this fall sounce and the several between the pair of the several between the several betwe

Flooding (excessive bleeding) which

Flooding (excessive bleeding) which sometimes occurs after calving, can often be controlled by dashing cold water over the loins of the cow Bloody milk is caused by injury to or disease of the udder also by functional derangement of the udder due to excitement in heat, eating of irritant plants, etc. In all cases a reduction in rations and the administra-

produced by cows trained to the produced by cows trained to the business by far-sighted owners. Grade cows yielding as much as 2,300 pounds of milk and 65° pounds of fat in 30 days are well worth keeping as many factory patrons can testif some poor records were hand some poor records were hand some poor records were hand some poor many and districts, not only in yields of malk but in many instances in pecu-

liarly low percentage of fat; even than two per cent. That is one than two per cent. than two per cent. That is one so dreason why it pays farmers to take up cow testing, for with the tests ranging, as they frequently do in the same herd from 2.1 to 4.3 with common herd from 2.1 to 4.3 with common grade cows giving almost the name weight of milk and handled under similar conditions, there is evid adp plenty of room for considerable differ ence in returns.

October 2, 1913

As a matter of fact, cow tening was never more needed than at the present time when farmers are com-plaining that it is hard to get good hired help. The time spent in taking a few weights and samples is aved over and over again, a hundred t over, when it proves to a man that he saves time by milking profitable coun-only. Why waste precious time month after month, year after year, on coun-tant test only two per cent. of fat?

#### Age to Breed Heifers

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

From our own experience, we have From our own experience, we have found it best not to have our hoifers freshen before two and a half years of ago. We have had them freshen from one and a half to three years old, and those freshening young have been hindered considerably in their growth, sometimes never making as irge cows as those freshening old We have also seen heifers which droptheir first calf at a year and a half of age, mature very satisfactor-ily and make splendid cows, but they took one to two years longer in ma-turing. These cares of course are turing.

In freshening from two and a half to three years of age, the heifer is more matured and therefore more fit to milk much better, than if younger Freshening at this age, will not alone make them what they ought to be, if they are not liberally fed and well cared for. They must have proper care and feed from the time they are dropped to make large strong heifers. Our best records have been made by beifers freshening when nearly two and a half to three years of ago, namely, Briery 2nd of Springbank, Buttermaid of Craiglea, Spick of Springbank, and many other good

# Light and Tuberculosis

Investigations recently complete one of the state universities show at one of the state universities shor-ed that the bacilli of ubberculosis will remain alive and virulent outside the body of a living animal for months. In the droppings of tuberculous cattle, they lived for more than two months; in butter in cold storage, for ten months and in the tissues of a designing pig, in water, for nearly year. It is evident that a condition of the animal, either alive and a dad, is a well dispused of ... and disposed of.

There is one thing, however, that is certain death to these devastating and well-nigh invincible little germs and that is abundant sunlight, which makes short work of them. Farmen who sneer at scientific agriculture up-to-date methods and convenient. sanitary buildings as mere fads that cannot profitably be followed by the operations for his living, will perhaps be able to see, in the light of these disclosures, why it will pay any farmer to have plenty of windows in the buildings that shelter his live stock. so arranged that direct sunlight my

reach to all parts of them.

Light, air, wholesome ford pure water, with intelligent kindly care, applied generous beginning and all the time, many control of the property of most effective means of keep ng disease out of our herds.—H. F. l'egiste

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# Training an Ayrshire's Horns

Wm. Stewart, Northumberland Co.,

Wm. Stewart, Northumberland Co., Ont.

I have been asked by the editor of Farm and Dairy if there is any way to straighten the horns of an Ayr-salive heaften when they show a tendency to grooked. The horns of an Ayr-salive when one has the proper any shape when one has the proper apparatus to pull them up or down, not one of the control of the contr

This apparatus, as will be seen by This apparatus, as will be seen by the diagram herewith, consists of a socket to go on the end of the horn with a thumb serew to hold it on. On the top end of the socket is a ring on which the rope is fastened and the rope in turn passes over a pulley and

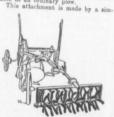


# Straightening Horns

Straightening Floras
then back through another pulley
where a small weight is attached.
Where both horns are to be trained the diagram herewith shows the
ed the diagram herewith shows the
ord. Short pieces of rope run
from the rings to a short, wooden
brace to rings to a short, wooden
train the brace and through the
centre of the brace and through the
centre of the brace and through the
centre of the brace and through the
train the horns up. If one wishes to
draw out, one will need a device similar to the tightener on the back of a buck-saw where the double thread arrange-ment will enable one to apply either an outward or an inward pressure.

# New Revolving Harrow

Agricultural authorities in Germany Agricultural authorities in Germany speak favorally of a new revolving harrow which has recently been introduced. The illustration herewith gives and so of the general arrangement of the implement, one of the merits of which is that it is attachable to an ordinary plow.



A New Combination Implement

ple claw fixture. Any desired inclina-tion can be given to the implement by the adjustable arm, which connects it with the plow. By the lever, which its easily controlled, deep or shallow plowing can be done at the will of the driver. The barrow is provided with six or nine sets of blades fixed on a square steel aske, and held in posi-tion by the frame. Every set or "star" has six or nine blades, which are wing-shaped, and are made of the best steel. Between every star there is a scraper. The implement works for a width of from 18 to 30 inches. No special expenditure in strength is required to draw the harrow. The required to draw the harrow. ole claw fixture. Any desired inclinacan also work it with the harrow on behind. The sharp, bent steel blades cut to pieces, break, pulverize and level the land. The blades are described as cleaning themselves at every revolution.—N. Z. Farmo

## Docking

Tastes differ. In nothing do tastes differ more than in the preferences people express for different styles of



The Tail of the Horse that Can Win

on horses The two rough tails on horses. The two rough sketches herowith are used by Mr. Walter Winans in an English agricul-tural paper, "Farm and Home," to show the enormity of docking.



# And the Tail of the Horse that Cannot

"Which," he asks, "is the most re-

"Which," he asks, "is the most re-fined style quite apart from any cruelty of docking?"

Mr. Winans was once directed to remove from the show ring one of his best animals for the avowed reason best animals for the avowed reason. that the animal still retained its tail!

#### Government Distribution of Stock

As announced early in the season, the Dominion Live Stock Branch has this year undertaken a distribution of pure bred male animals throughout of pure bred male animals throughout Canada on a somewhat extensive scale in inaugurating this policy can be as a policy of the animal pure bred sires were lacking and to encourage new communities in following an intelligent system in breeding. This form of assistance has proveevery popular and during the past few properties of the country in the hands of local associations formed specially for the purpose of handling and maintaining them. tions formed specially for the purpose of handling and maintaining them. All animals place main the property of the Department of the property of the Department of the period of the property of the period of the period of the property of the period of the period of the property of the

The distribution of bulls and stal-lions having been brought to a close for this year the opportunity is now open to deal with applications for open to deal with applications for boars and rams. Full information re-garding the rules governing the dis-tribution and the procedure to be fol-lowed in forming the necessary or-ganization may be had upon applica-tion to the Live Stock Commissioner at Ottan.

As it is the intention to consider only such requests as are forwarded before October 20th, it will be necessary for districts desiring to takead-vantage of this offer to act promptly.

Farmers in the corn belt turn their sheep into the corn fields after the corn is bearded to eat the weeds. The plan is worthy of experiment in Canada.

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FARM AND DAIRY

FARM AND DAIRY

#### POCKET LOYALTY

As noted in Farm and Dairy last week, the Canadian Manufacturers' Association when in annual session at Halifax recently received a telegram from the Grain Growers' Guide of Winnipeg, asking them if they were willing to join with the Western Grain Growers in urging the Government to reduce the tariff upon British imports to be followed by free trade with Great Britain in four years. In their reply, through their president, Mr. R. S. Gourlay, the association sidestepped the issue in a manner implying that the Grain Growers' Guide was not in a position to speak for the western grain growers, whose official organ it is, and left the question unanswered.

The Canadian Manufacturers' Association, through the various journals that it controls and public ad- and therefore attractive and free dresses of its members, has been from bruises. Hence the fruit of

Britain and the British connection. The association in its fight to defeat reciprocity with the United States in 1911 sent out a protest "against any measure that would tend to weaken our imperial relations." They then claimed that trade had a vast influence in moulding public sentiment, and that it would be dangerous indeed to enter into closer relationship with the United States, as it might ultimately lead to political union.

If it is true that trade relations will weaken political affiliations, as the manufacturers then claimed, the converse must be equally true, that trade will strengthen political affiliations, and from an imperial standpoint free trade between Great Britain and Canada would be most desirable.

The Grain Growers, through their official organ, have given the manufacturers of Canada a chance to prove their loyalty in a substantial manner. It was very easy for the manufacturers to advise farmers to sacrifice what financial advantage there might have been in reciprocity with the United States for the sake of the British connection. Here is a chance for them, in their turn, to make a sacrifice that will tend to bind closer the ties of Empire.

The Manufacturers have been given a chance to prove whether their loyalty is of the lip or pocket variety Does the way in which they dodged the issue presented to them by the Grain Growers' Guide indicate that a tariff enclosed market and larger dividends are of more value to them than an Empire strongly united in the bonds of trade?

#### COOPERATIVE SUCCESS

Farmers in and around the village of Chatsworth in Grey Co., Ont., have organied themselves into a cooperative society for the marketing of their produce. As noted in Farm and Dairy last week these farmers, through their organization, hope to do as the Danes have done; to eliminate unnecessary middlemen's profits and get a larger share of the consumer's dollar.

These Grey county farmers have evidently studied the subject of cooperation. They have organized their society on lines that world wide experience has proved to be most advisable. They realize that the first essential to the success of their society is a higher quality of produce to offer the consumer. Hence their first object is to raise their standard of quality.

This improvement of quality lies at the basis of the success of the cooperative fruit growers' associations in Canada. The fact that last year their fruit sold well while other fruit was allowed to rot on the trees was not due to cooperation in selling, but to the initial work of cooperation in growing. Buyers knew that cooperative fruit was grown on sprayed trees and that it would therefore be free from disease. They knew that it would be uniformly well packed loud in its protestations of loyalty to these societies was in demand. There

is a big advantage in cooperation in production. There is also an advantage in cooperative selling. ideal farmers' cooperative enterprise is the one that combines both production and selling.

Farm and Dairy has another reason for predicting the success of this Grev county enterprise. It is a nonshare company. Many cooperative enterprises have failed in the past because they were cooperative in name only. Really they were joint stock companies. Dividends were paid in proportion to the amount of capital invested and gradually the object of the enterprise came to be dividends for shareholders rather than the greatest good to all who dealt through the association. In the Chatsworth association dividends will be divided among the various members in proportion to the business done by each. Herein lies the true basis of successful cooperative organization.

The Chatsworth association has been in operation only one month, but already a small dividend has been distributed among the members. As the association is one of the first of its kind in Canada its further success will be watched with interest.

#### THE MANAGER'S SALARY

Cooperation is in the air these days and while all are interested, Farm and Dairy would like to drop a friendly suggestion to intending cooperators. Don't expect to get a good manager at a figure not much better than a hired man's wage. A twenty thousand dollar cooperative enterprise needs just as efficient a business man at its head as a twenty thousand dollar private business. And such a man is accustomed to receive a good salary nowadays.

We farmers are so accustomed to pay twenty-five to forty dollars a month to our employees, the latter figure without board, that it goes against the grain to have to pay a manager for our new cooperative enterprise seventy-five to one hundred dollars or more a month. Parsimony in this connection explains the failure of many a cooperative institution well located and organized on the right lines. Canadian cooperative associations have suffered particularly in this regard.

Cooperators are always pointing to Denmark as their example. What salaries are paid in Denmark? There are several managers in the employ of Danish cooperative associations receiving salaries up to \$10,000 a The Danes have recognized year. that they must pay a good man the same salary that he would receive in any other line of enterprise. Even the managers of small local societies are there paid a salary that would be considered generous, even in this country.

One of the most successful coop erative societies in America is that of the California orange growers. From the first this organization has paid more attention to the ability and efficiency of their managers than to the salaries that they demand. Right

economican

E an know that war is made by capitalists, and by certain financiers who manipulate the stock market. War is enginerad by them and the poor solder has to step in and do the work.—Co.l. Rughes, Minister of Militia and Defence.

in our own Norfolk county is one of the most successful cooperative associations in Canada, and cooperators there attribute their success largely to the efficient manager that they have; and his salary is in thousands

The laborer is worthy of his hire. If a good man cannot get a good salary from the cooperative institution, there are lots of private enterprises ready to recognize his worth and pay for it. Let us not cripple otherwise promising associations with cheap and inefficient managers.

#### THE FIRST GOOD ROADS PROBLEM

The Toronto Globe has detailed one of its staff writers to collect all available information on the good roads problem. At present their representative is travelling in the Fastern states, and his daily letters tell of the progress that is being made with the roads problem in New York, Massachusetts, and other go-ahead localities.

The figures that are quoted are enough to stagger the most enthusiastic advocate of high-class rural roads. In New York, for instance, we are told that the average price per mile of improved roads to date has been \$13,000. How, we ask, may the farmer be asked to view a problem the solution of which involves an expenditure equal to a mortgage of \$3,000 for the roadway running in front of an ordinary sized farm?

Our contemporary also discusses the necessity of such expensive roads and the wherefore of the annual repair bill of \$3,500,000. Both the outlay and the expense for maintenance are made necessary, we are told, by heavy motor traffic. Roads costing only one-quarter as much a mile as they are spending on improved highways in New York state, would be perfectly satisfactory for farm traffic the whole year round. Such roads however, would be torn to pieces in a season or two by large motor can travelling at high speed.

All auto associations are strong on good roads. They are perennial good road enthusiasts. seem, however, that they are still stronger on tearing good roads to pieces. Are these automobile owner willing to pay the extra price of a automobile road? Are they willing to meet the repair bills that the traffic alone makes necessary?

The relation of the automobile # good roads is the first problem aling for solution. In New York state they are starting to regulate the size and speed of autos on rural high ways. More stringent regulation however, and higher fees from and owners will be necessary before fat mers will feel justified in authors

ing great expenditures for bette

roads in Canada.

October 2, Selling St

What would y our largest man ceased the adv goods? Would suspicion that so ously wrong? infer that the m ducts were glu conclude that th bankrupt. You that something w either with the n manufacturer, or

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Can you think of any consequence ing every measure and me with the ge ducing? I canno The manufa not advertise has wide reputation, hand is of very li How different is

breeders of pure 1 We know they have stock for sale. W there is a big dema tle all over Canada majority of us seen with the very loca the wider market what we have for

Elbert Hubbard man who shouldn't man who has nothin infers therefore tha is in the selling bus his prospective custo he is and what he h A few of our n

dairy breeders are in the same way. the success of their pends upon the num buyers whom they ca so we find them tel have for sale through of the farm press. Ness, Howick, Que., 6 ham, Bedford Park, Brockville, H. Boll A. C. Hallman, Bres of other dairy breed it is to their advant buying public know so animals they are pre We ask you to note s vertisements these me in the pages of Far These men use a dairy medium realizing that dairy papers understa of pure bred stock as to pay good prices fo Does it pay these r

will be persuaded that ing a great opportunit ing your surplus stor through the columns Dairy,

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### Selling Surplus Stock

What would you think if one of our largest manufacturers suddenly ceased the advertisising of his goods? Would you not have a faint suspicion that something was seri-ously wrong? Possibly you might infer that the markets for his products were glutted. You might conclude that the firm had gone bankoupt. You would at least feel that something was radically wrong either with the markets or with the manufacturer, or with his goods.

Every manufacturer receives publicity for his products largely through the papers that reach his prospective customers, and so it has come about in this busy 1913 that we take the measure of any manufacturing concern largely by the amount of advertising it gives to its products.

Can you think of a single factory of any consequence that is not taking every measure to acquaint you and me with the goods they are producing? I cannot recall a single The manufacturer who does not advertise has already gained a wide reputation, or on the other hand is of very little consequence.

How different it is with our breeders of pure bred dairy cattle. We know they have much surplus stock for sale. We know too that there is a big demand for dairy cattle all over Canada. But the great majority of us seem to be satisfied with the very local field, even if the wider market is demanding what we have for sale.

man who shouldn't advertise is the man who has nothing to sell." He infers therefore that everyone who is in the selling business should let his prospective customers know who he is and what he has to sell.

A few of our most prominent dairy breeders are looking upon it in the same way. They know that the success of their business depends upon the number of possible buyers whom they can reach. And so we find them telling what they have for sale through the columns of the farm press. Such men as R. Ness, Howick, Que., Gordon Gooder-ham, Bedford Park, A. C. Hardy, Brockville, H. Bollert, Tavistock, A. C. Hallman, Breslau, and scores of other dairy breeders, know that it is to their advantage to let the buying public know something of the animals they are prepared to sell. We ask you to note some of the advertisements these men are carrying in the pages of Farm and Dairy These men use a dairy paper as their medium realizing that readers of dairy papers understand the value of pure bred stock and are willing to pay good prices for it.

Does it pay these men to advertise? Ask any one of them and you will be persuaded that you are missing a great opportunity in not having your surplus stock advertised through the columns of Farm and Dairy

"A Paper Farmers Swear By"

President Gourlay says that the Canadian Manufacturers' Association is well satisfied with the general level

of the protection Want Still More tariff in Canada, but Assistance. that the steel and wool schedules are

badly in need of revision. Haven't these manufacturers got enough? We farmers who pay the most of the taxes thought we were doing fairly well by our steel magnates when we gave them over \$17,000,000 in bounties in addition to tariff protection, amounting to several dollars a ton of their products. We have paid them more than all they have paid out in wages and have been about equally generous with the manufacturers of woollen goods. Everyone of us has been paying one-third to onehalf more for woollen clothing than would have been necessary under free trade conditions just to give this last-mentioned infant a start; and still it is calling for more.

The truth is the manufacturers have come to look on the tariff as a vested right rather than a measure of temporary assistance. They don't regard it as in any way unreasonable to ask us to impose greater hardships on ourselves in order that our steel and wool magnates may reap the benefit. This is one of the greatest objections to a protective tariff as those who benefit by tariff favors are never satisfied but continually call for more as long as they see any chance of obtaining their demands. Hitherto the common people of Canada have been rather easy on these points. Now, however, that evidence Elbert Hubbard says: "The only is accumulating rapidly, which shows that the protective system is one of the principal causes of rural depopulation, through its tendency to build up the urban centres at the expense of the country districts, we are beginning to look at these matters in a different light. It is time that we

#### Inspection of Stalliens in Ontario

Editor, Farm and Dairy,—After the inspection of stallions had been made last fall; it was found that quite and the stallion owners, through not having stallion owners, through not having stallion owners, through ont understand the Stallion on understand the Stallion or understand the Stallion or stallions inspected, were anxious to have their horses inspected before the season of 1913 commenced. This over much of the same ground in the spring, which had aiready been gone over the previous fall.

spring which had aireauy been gone over the previous fall.

While this made a very thorough inspection, it was felt by the Board, it should not be made a practice of having two inspectors for each stallion enrolment year. It was, therefore, decided at a meeting of the Board which was held in the secretary's office, Parliament Buildings, Toronto, office, Parliament Bulliungs, 1070m.o.,
on Monday, Sept. 22, that there
would only be one inspection of stallions made during the year ending
Jule 31, 1914, which inspection will
begin February 17th, 1914.

The inventors will visit and stell

begin February 17th, 1914.

The inspectors will visit each stallion owner at his stable, provided that he makes application for inspection to the secretary on or before February t. 1914.—R. W. Wade, Secretary.

# DE LAVAL CREAM SEPARATORS

## Make Fall and Winter Dairying More Profitable

THERE are special advantages in using a good cream separator during the fall and winter months.

The milk from cows long in lacta-tion is hardest to cream,—and likewise hardest to separate with an inferior separator.

Moreover, cream and butter prices are highest, so that the waste of gravity setting or a poor separator counts for most.

Then there's the sweet, warm skim-nilk for stock feeding, alone worth he cost of a separator in cold weather.

the cost or a separator in cold weather. There is surely no reason to delay the purchase of a separator or to continue the use of an inferior on the law in the continue the use of an inferior on the law in the continue the use of an inferior on such interest of the continue that is not the continue to the continue to the continue that is not the continue to the continue that is not the continue to the continue that is not that is not that is not the continue that is not that it is not that is not that it is n

See your local De Laval agent.

De Laval Dairy Supply Co., Limited Montreal Peterboro Winnipeg Vancouver

# EGGS, BUTTER and POULTRY

For best results, ship your live Foultry to us also your Dressed Poultry, Fresh Dairy Butter and, New Laid Eggs. Egg cases and poultry crates supplied. Prompt Returns.

The Wm. DAVIES Co. Ltd.

Estapibshed 1854 TORONTO, ONT. 



The Secret o

# AUCTION SALE

Of 150 Six to Seven Months Old Holstein Heifer Calves



WILL BE HELD AT

LORNEVILLE JUNCTION

# Wednesday, Oct. 8th, 1913

SALE COMMENCING AT 1 O'CLOCK P.M.

HAV: 150 heifer calves which were brought from the cheese districts of Eastern Ontario. They are well selected and well raised, weighing 400 lbs., and are from splendid milking stock. Here is the foundation of a very fine milking herd for anyone desiring such, as you cannot find another lot their equal in Ontario.

siring such, as you cannot and another for their equal in Omario.

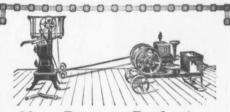
Lorneville is on the Midland Division of the G.T.R., between

Lindsay and Orillia. Train arrives from Blackwater Junction at

11 a.m. and 8 p.m.; from Orillia at 9 a.m. and 6 p.m. Good shipping accommodation is provided by the G.T.R., also hotel accommodation by two hotels.

Anyone desiring further information may communicate with the undersigned

WM. NEWMAN - LORNEVILLE, ONT. 



# Door to Perfection

POUR your milk into an IHC cream separator. Out of the cream spout will come close to 9,999 parts of cream for only one part that goes into the skim-pail. That's marvelously close separation; it means every pos-

milk pail. That's marvelously close separation; it means every possible dollar of dairy profit from your cows.

It takes an I H C separator to do such efficient work. Every detail has its use, every mechanical point its purpose. Shafts and spindless are the strongest made for separators. Bearings all have phosphor bronzo bushings. Gears work without back lash, and they are protected from dirt and grit. In short, everything in

# IHC Cream Separators Dairymaid, Bluebell, or Lilv

makes for great strength and durability. Perfect adjustment and balance mean smoothness and ease in operating, hence continued satisfaction during long life. All parts are easily accessible for cleaning. There are four convenient sizes of each style.

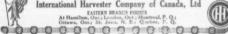
There are four convenient sizes of each style.

Then if you have a one-horse power back-geared I H C engine to complete your separator outfit, you will soon find that an indispensable helper on the farm. It will run steadly and at the proper speed to pump water, run washing machine, churn, grundstone, etc.

Study I H C separator outfits at the local agent's. Catalogues may be obtained from him, or, write to

International Harvester Company of Canada, Ltd

EASTERN BRANCH HOUSES
At Hamilton, Ont.; London, Ont.; Montreal, P. Q.;
Ottawa, Ont.; St. John, N. B.; Quebec, P. Q.





## Wanted---Cream

Delivered at nearest express office Highest prices paid PETERBORO CREAMERY Peterboro, Ont.

#### FALL AND WINTER Milk or Cream WANTED



This is one of four cups donated for the Best Horse, Beef Ani-mal, Dawy Cow and Pen of Bacon Hogs shown at the Guelph Fat Stock Show this

# Creamery Department

Butter makers are invited to send sontributions to this department, to ask questions on matters relating to butter making and to sugrest subjects for discussion. Address subjects for discussion. Matres as a subject of the subject o

#### A Creamery Danger

Under the above heading the Nor'. West Farmer discusses a menace to the creamery industry that dairy far-mers in all parts of Canada would do well to avoid. Our contemporary

"There is a danger just at present in connection with the creamery situ-ation in certain portions of Western Canada. This danger is that cream-eries shall be foolishly organized in unsuitable situations."
Two factors are more likely than any others to lead to this result. One

any others to lead to this result One of these is the ill-directed ambities of local boards of trade, which ambition leads one town or village to fee that it must have a creamery in is midst simply because there is one in the next village. The other danger our element is the professional or the professional trade of the control of the creamery organizer, who makes it his business to talk people into creamers building projects simply in order that he may secure a contract to erect a building and equip it

WHEN TO BUILD

"There is only one proper basis upon which creamery organizates should proceed or be considered. This is the basis of the most good to the farmers at large. The town, after all, has never anything more that a secondary interest in a creamer, and town enthusiasm can never be effective in sustaining such as effective. effective in sustaining such an en-terprise when there is a dearth of farm patronage. And everyous should remember that there should should remember that there should be the cream for at least 400 or 800 average cows available at any cream-ery in order to enable it to operate. "It is much better for a few es-thusiastic cow owners at any point

to ship their cream by rail to a goo to ship their cream by rail to a god creamery than it is to start a local creamery that will either be a strug gling institution of itself or divide the patronage of a neighboring creamery that already is giving god service to part or all of the field Better be a railway patron of a god creamery elsewhere than be force to back the bonds of a failing cream ery at home

GET THE BEST ADVICE
"We believe that communities of farmers should always consult their provincial dairy departments before embarking upon such enterprises is a cooperative way. We under that in Montana they have much further than this, and We understar given to the state dairy commis the authority to say when a me creamery shall be started in the state. No doubt there was a go reason for such a law; otherwise would not have been passed. The most obvious reason would be to do able the dairy commissioner to the creamery industry from fooli professionally interested persons of unwisely zealous local enthusiasts

"There is no need in this coun to extend to any of our provinc dairy commissioners any autocra authority, but at the same time di would do well to take them into ou

Does the label on the wrapper of this week's Farm and Dairy, of that your subscription has run of if so, get busy. Don't waste a mit ute until you have seen that we renewal is on the way. Remember Prompt renewal saves mistakes, tim and money. — Circulation Depart and money. — Circulation ment, Farm and Dairy, Pet

# Cheese D

butions to this d quations on ma chose making an jects for discussio to The Cheese Ma ...............

## The Western

The Western Onta ventum and exhibitude Jan. 14th a connection with the connection with the usual liberal provided, as well infeading contribute to the London Nevember 10th. The pay the cold storage of reshipment to thion. Cheese, which to put in cold stora dairy exhibition, with those Selalatyne. and exhibit Thomas Ballantyne ord, express to be

Dairymen intendi herds in the herd comake application Nov. 30th. Sections patrons of both che creameries with her eight to 14 cows, in

Use of S

Starter is used in for two purposes: I the flavor of the re and second, to has ment of lactic acid. dency on the part of to use too much star ing the cheese making reduces the yield of likely to cause an a The starter shoul

into the vat of milk s be no lumps, since leven color and text starter should be accolor is put in.

In general from .5 of good commercial safely used. If the a small percentage ca before the rennet is a not hurry the proces prove the flavor. If the if it is thought t will work slowly, a age may be used. into the milk and left fore the rennet is ad will become rather a case should so much that the curd does no contract naturally be is removed.—Cornell

#### Weight of

selling 100 ga We are selling 100 ga day to the creamery at a of 10 lbs. a gallon. I wo the exact weight of a ga what we are galning or gallons what is the weig cas gallon of milk im weighs, with very slij 10.032 lbs.; 100 gallon foreweigh 1,003.2 lbs.; of 3.2 lbs. between the



# Show that Animal IN CONDITION

The Caldwell Feed Co., Ltd., are again offer-Silver Cups at the Guelph Winter Fair for the best conditioned Horse, Steer, Sheep and Hog, irrespective of conditioner used.

You can take the word of the majority of owners of "blue ribboned" stock that nothing can



# CALDWELL'S Molasses Meal

for getting animals into the pink of condition in a mighty short space of time.

The Reason isn't hard to find: this feed contains 84% pure cane molasses-all nutriment. 16% edible moss-great aid to digestion. Animals like it from the start.

Use it-it is an economy and an excellent investment and you will see the value of your stock going up.

From your feedman or

The Caldwell Feed Co., Limited **ONTARIO DUNDAS** 

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Cheese Department

Makers are invited to send contributions to this department, to ask questions on matter relating to the forest of the cheese the contribution of the contribution of the contribution of the contribution of the cheese Makers' Those letters to the Cheese Makers' Those letters to the Cheese Makers' Those letters to the Cheese Makers' Those letters are the cheese that the cheese the cheese

## The Western Dairy Meet

The Western Dairy Meet

The Western Ontario Dairymen's Assection will hold their annual convention and exhibition of dairy product Jan. 14th and 15th, 1914. In connection with the dairy exhibition serviced, the product of the produ

tors.

Dairymen intending to enter their herds in the herd competition abould make application for entry before Nov. 30th. Sections are provided for patrons of both cheese factores and creameries with herds varying from eight to 14 cows, inclusive, and for herds of 15 cows and over.

#### Use of Starter

Starter is used in cheese making for two purposes: First, to improve the flavor of the resulting cheese; and second, to hasten the development of lactic acid. There is a ten-dency on the part of the cheese maker to use too much starter, thus hurry-

to use too much starter, thus hurrying the cheese making process; this
reduces the yield of cheese and is
likely to cause an acidy cheese.
The starter should be strained
into the vat of milk so that there will
be no lumps, since lumps cause uneven color and texture. All the
starter should be added before the

color is put in. In general from .5 to 2 per cent. of good commercial starter can be safely used. If the milk is overripe safety used. If the milk is overripe as small percentage can be added just before the rennet is added. This will not hurry the process, but will improve the flavor. If the milk is gassy or if it is thought that the starter will work slowly, a larger percent-age may be used. This can be put into the milk and left some time before the rennet is added, so that it will become rather active. In no case should so much starter be used that the curd does not have time to contract naturally before the whey is removed.—Cornell Circular.

#### Weight of Milk

Weight of Milk

We are solling 100 gallons of milk a
day to the creamery at a standard weight
of 18 lbs. a squilon. I would like to know
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at the standard weight of 18 lbs.

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Uness Department

Makers are invited to send contributions to this department, to said particularly addressed to the department, to said particularly addressed to the department, to said particularly addressed to the department, to the control of the department, and four cents. For all practical purposes, therefore, the usually active particularly and the department, to the Obsect Makers Department.

The American gallon contains 8.586 lb. of milk.

lbs. of milk

#### **Educating for Good Citizens** Continued from page 4

imparting of this knowledge to the youngsters. A school teacher who has made a great success of this oc-cupation told me that his plan was to spend 20 minutes every morning dis-cussing current events of the day from the daily newspapers with his pupils. In the discussion that ensued he had an opportunity to get the boys and the girls discussing free trade, ideas

the girls discussing free trade, ideas on taxation, and so forth.

The danger in this method of instruction is that the teacher has a great opportunity of saddling on the young minds in his charge his own ideas, good and bad. My own ideal system would be a literary and debating society in connection with every school in the land. Make it a requisite part of the curriculum and every school in the land. Make it a requisite part of the curriculum and then lay out a schedule of debates covering all subjects of civic interest. covering all subjects of civic interest. My scheme would not work well at first, but as we could improve it with experience, I believe it would be useful to them when they take up the great work of government in this self-governing country.

### Handling Tender Varieties of Apples in Quebec Province

Continued from page 4

it is shipped the better it will carry and the longer it will keep in cold

Not only must we have good pack-Not only must we have good packing houses to protect the apples from the sun but we must do our packing as soon after picking as possible. There is nothing equally responsible for damages to the crop as allowing the apples to remain unpacked from one to three weeks. The sooner the one to three weeks. The sooner the the apples to remain unpacked from one to three weeks. The sooner the apples are packed after they are pick-ed the better their condition will be when they are in the hands of the con-sumer. What we all should try to do is to give satisfaction to the con-sumer.

Let us hope that the fruit growers all over our province may live up to the best in modern orchard manage. They will be well repaid for their trouble in many ways.

#### Prospects for Ontario Potato Crop Only Fair (Continued from page 9)

As digging has not commenced, however, I cannot give an accurate ac-count. Early varieties were below average. Acreage same as in former years; very little blight; bugs never so plentiful."—A. L. Arner, Essex

Co., Ont.
"Our acreage is the same as usual,
"Our acreage yield will not be near-Our acreage is the same as usual, but the average yield will not be nearly as large owing particularly to the severe drought of the past summer. Potatoes may be imported."—W. A. Barnet, Essex Co., Ont.



## THE TWO-YEAR-OLD RECORD AS AN INDICATION OF PRODUCING ABILITY

AN a dairy cow be judged by her two-year-old performance? Breeders disagree. Many of our leading breeders of dairy cattle never think of discarding a heifer of milky ancestry if she fails to "make good" in her first lactation period. They give her another trial. To those who are at a loss to know how long a young cow should be kept in the herd before it is safe to conclude whether on not she is a nyofitable animal. ther or not she is a profitable animal, the findings of Prof. C. H. Eckles, Professor of Dairy Husbandry at the University of Missouri, will be of in-In a recent issue of Hoard's terest. In a recent usue of moard's Dairyman, Prof. Eckles makes a compilation of all the records of all the cows in the University herd that have cows in the University head that have two lactation periods or more. In all, data is given of 76, cows having 325 complete lactation periods. In the table the column marked "year-old record" means the production of butter-fat during the first lactation period which began when the animal was two years old or in most cases a little older.

r lierie	order				
Group No.	No. of		Tl. num- ber lacta- on periods.	Lbs.	
		100	7	120	
2	3	100 to 150	11	156	
, 3	15	150 to 200	66	251	
4	26	200 to 250	103	292	
5	21	250 to 300	103	384	
6	8	300 to 350	34	346	
7	1	350 and above	2	345	

This table gives the records of these This table gives the records of these cows grouped according to butter-fat production as two year-olds. For example, group three includes 15 cows that produced between 150 and 200 pounds butter in the first lactation period. A study of this table will convince the reader that the records of these 76 cows as two-year-olds was a safe basis upon which to judge them when mature.

"One question," writes Prof. Eckles, "cannot be answered from this table, that is, how many of the animals in a certain group come near the average. For example, in group four the 26 cows average 292 pounds fat for all the lactation periods. The question is, were some of those inferior producers as mature cows, or were they all reasonably good? In other words, what proportion of those in this medium good group ranked the same when older?

"In group three for example, the "One question," writes

"In group three for example, the average fat yield was 250 pounds for the entire 65 lactation periods of the 15 animals. In this group one cow averaged 100-150 pounds; three averaged 100-100 pounds; three averaged 100-100 pounds; averaged 100150 pounds, three averaged 150200 pounds, three averaged 250 200 pounds, three averaged 250 200 pounds, while two averaged 300-300 pounds. While there is considerable variation in each case, as siderable variation in each case, as siderable variation in each case, as a rule most of the cone come fairly close to the general average. In group six the poorest of the cows averaged between 250 and 300

"It is clear, therefore, that a two-year-old record is a reasonably safe basis upon which to judge the future value of the animal. Naturally there is considerable variation one way or the other so that it is not safe to as-sume that all will follow the average. In studying the records sume that all will follow the average. In studying the records of the 76 cows which are included in the above table, it is found that had the cows been culled upon the basis of the two year-old records, in only one case would a good ow have been sacrificant ficed

"In this connection it might be well to have in mind the average, variation in production between a two-year-old and a mature cow. On the average a dairy cow as a two-year-old may be expected to produce year-old may be expected to produce about 70 per cent., as a three-year-old around 80 per cent., and as a four-year-old around 90 per cent. of the milk and butterfat she will pro-duce under the same treatment when mature

mature.

"It seems reasonably certain from the study which has been made of these 76 cows with their complete records that it is safe in more than nine cases out of ten to divide the profitable from the unprofitable cows after one year in milk."

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Lump Rock Salt, \$10 for ton lots, f.o.b. Toro Toronto Salt Works, 128 Adelaide St. S G. J. CLIFF, Manager Terento, n



THE habit of viewing things cheerfully, and of thinking about life hopefully, may be made to grow up in us like any other habit. - Smiles . . .

## In Defence of Babe Farm and Home.

By ELIZABETH JEWETT BROWN

(Continued from last week)

She remembered that she had tried lawyers in Fenway and West Fen-She remembered that he had tried lawyers in remway and West Fen-ices, no to explain about the kitten, and also, way! She would move immediately, the room that in some unaccountable way she but Babe should go with her and go ture of bad. 'fergotten them both, but the man direct And in order that there should standing world not listen. He ridiculed the be no doubt about it in the mind of school be idea that she had forgotten the boy; the lawyer, she called up his office on to him. idea that she had forgotten the boy; the lawyer, she called up his office on to him. He stepped to examine it, in scoffed at her sympathy for the the 'phone and told him so. His an-then spoke in surprise: kitten, and he taunted her with neg swer was that the law must be obey. This is the picture of the old clering her duties for the dancing ed. She answered that it would take school building hest Fenway, and lecting her duties for the dancing party she had attended that evening. Even her terrified journey to the schoolhouse, alone, at night, did not appeal to him; and with his biting appear to nim; and with his ording words of condemnation ringing in her ears, she had fled from the school-room, with the kitten in her arms, to her boarding place, leaving him to wake his sleeping brother and take him home.

In the morning she had sent in her resignation, and taking the kitten with her, she had left the town and

with her, she had left the town and school work for even the the tended that the tended the tended that the tended that the tended the tended that the tended place as her home, until her rude awakening that morning. But as she thought the subject over calmly, she was not sorry that she had upheld the cat, although he was the cause of all her trouble.

She saw the pompous

She saw the pompous physician stop his automobile, a little later, at her landlord's door, and before night a friendly gossip brought her word that the scratch was so serious that they feared Mr. Winslow would have blood poisoning. She passed e side they feared Mr. Winslow would have blood prisoning. She passed a sleep-less night, with Babe curled in her arms, and rose the next morning heavy-eyed and languid with the color faded from her soft cheeks. Presently, leaving Babe securely locked in the house, she went to the past office for the mail. An envelope past office for the mail. An envelope

post office for the mail. An envelope bearing the name of John Allen, Attorney at Law, frightened her so that she hastily thrust it in her hand bag she hastily thrust it in her hand bag and hurried back to her home, where she could read it undisturbed. She was not reassured by the sight of the doctor's car in front of Mr. Wins-low's house. Probably the man would die from the seratch, and then Babe would have to be killed. She knew that if John Allen was against her, again, she might as well make up her mind for the worst. His letter was brief. It consisted of a legal notice that she must vacate

a legal notice that she must vacate a legal notice that she must vacate the premises within a specified time; also that she was warned against keeping a dangerous animal and in-formed that she must either dispose of the cat at once or the proper authorities would see that it was done.

Then Miss Catherine's temper rose. Nover! Babe should live in spite of all the Winslows and doctors and

her grit," he said to his clerk. "I believe I will run out there in a day or so and see her myself. Winslow has the name of brow-beating everyone who crosses him, and Dr. Carter is his tool. I don't like the idea of

her dainty living room, which, with its fresh white paint, its delicate wall paper, soft harmonizing colors of rugs, furniture and draperies, made it seem an exquisite retreat from the it seem an exquisite retreat from the dust and heat outside. Miss Cather-ine, too, in cool linen, with a deep rose color in her cheeks, and with sparkling eyes, seemed the last person in the world, he, in his capacity as

lawyer, could make war upon. He handed her his card, wi which she read without comment. After clearing his throat he made some inanc remark about the weather, which she answered briefly. Then, feeling help answered briefly. Then, feeling help-less, he let his glance wander around the room. It fell upon a framed pic-ture of a group of school children, standing with their teacher near a school building, which looked familiar to him. He stepped to examine it,

is his tool. I don't like the idea of making war on a woman, myself, so I'll try to settle this affair without further trouble, if I can."

Miss Catherine answered his knock the next afternoon and seated him in

· variable survival s

### "Gee, I'd Like to be Back There!"

"Gee, I'd Like to be Back There!"

GEE, but I'd like to be buck there. Just think, the boys up home have freeh east and butter, warm milk and leituce-why, it just makes my mouth water. You bet I'm mous ook. " a struggled to rise; the nurse mouth water. You bet I'm mous ook." a struggled to rise; the nurse mouth water. You bet I'm mous ook. " a struggled to rise; the nurse moust have been deepen from him forever-he was dead. Poor Ernest Ecart, just seventeen years of age. He heard the cail of the city, be had read literature dealing with the success ment in an automobile plant, and his new work and the busy city attracted his attention for a time. He sarned good waige, but room rent and board took most of it. The big city was ionesome: so lonesome. He are the same of the country and his new work and the busy city attracted his attention for a time. He sarned good waige, but room rent and board took most of it. The big city was ionesome: so lonesome. He are well as the same of the same of

ore than him to make her dispose as I live, here is Billy! How did you her cat. get this, Miss Mason?"

"You do not know anything about it," she said forcibly. "The cat is said icily perfectly harmless. That man is put the only ting up a b'uff to get rid of my I'll never believe that he is dying from that scratch, or has any notion of doing so, either. Anyway, Babe shall not be killed until Winslow is dead," she declared vehemently.

and," she declared vehemently.
The lawyer spoke soothingly: "But
the doctor's statement that the scratch of the cat is poisonous."

began. You don't know Dr. Carter," she interrupted. "As long as he can get five dollars a visit he will agree to anything that hypochondriacs wants him to. I know both of them, and you don't. One of my neighbors, a anything in the control of the contr was going to have hydrophobia. He made such a fuss about it that they had their pet killed, and then Winslow recovered. So go ahead and make all the teach he made such a full the teach he made with the teach he made and make a full the teach he made with the teach he made and make a full the teach he made and the teach he made a all the trouble you wish for me, but Babe is not going to be killed, and that ends it."

"I was teacher there once," she "Of course, you remember the only time we ever met before to-

des with the control of the control was now the resolute, beautiful wo-

'It is very fitting that you should be the prosecuting lawyer again," she

said, sarcastically.
"I beg your pardon, Miss Mason." "I beg your pardon, Miss Mason," he said, as soon as he could recover speech. "I would never have had a thing to do with this case if I had known it was you. The fact is, I have wanted to see you all these years, and apologize for what I said that night." night.

that ends it.

She did not hear the amused "It is rather late for that," she recluckle the lawyer gave as he heard 
plied, frigidly. "If I remember 
her receiver clam into place. "I like 
aright, you would not let me say a

word for myself when I tried o explain the ga."

"I was a brute," he and and I did not recover my senafter you had left town. woke up, made a few inquiri-learned the truth of the matter fact was, both mother and I Billy. He was fifteen years y than I, and as father was dewas away at college, he got the hand of mother, who believed thing he told her. But that no had ever had. He owned up t frightened nearly to death, of his resolves was that he never torment any living co living creature again. And he has kept his word He is now a chap to be proud of, and he

is now a chap to be produced, and as says he owes it to you."
"To me?" she repeated, doubting her very ears. "But you would not believe that I forgot him," she cried "You said I left him there purposely!

"You said I left him there purposely! I could not make you listen to me, and it nearly drove me crazy."
"I know it," he agreed, humbly. "I tell you I was a brute, and I're been ashamed of it all these year. When I have thought how you rushed to the schoolhouse at dead of might. and how you were treated by n wished some great hulk of a f would kick me out of the state wished it more than once,' he heartily. "But where did you heartily. "But where did you I tried to find you and apolog

I tried to him your We went west. I wanted to forget all about it. I felt as if I was dis all about it. and I have never all about it. I let as if I was as graced forever, and I have never taught since. But I'll accept you apology," she said, smilingly. "It seems singular that there should a ways be a cat in our conferences.

ways be a cat in our conferences. I will show you Babe, the lineal descendant of the cat that made the tropble between Billy and mr.!

Babe graciously raised his head an arched his back as Mr. Allen stroke him. Then he did an unheard of thing for him—he vacated his chair, and s the lawyer sat down in it, he upon his knee and purred today, upon his knee and purred against his breast. "The little rascal is peading his own case." he laughed.

Catherine smiled. "And do

Miss Catherine smiled. "And do you think he will have to be killed?" she asked tremulously.
"Killed! Well, I think there will

have to be an authenticated case have to be an authenticated case or rabies pronounced by more than Dr Carter, before he is," the lawyer siternly. "I made you consideral trouble once, over a cat, Miss Masa and now, if you will take me as you lawyer. I'll try to save you any more than the state of the control and the cat as well. Think I will of personally on Mr. Winslow, and may be necessary for me to see y again. If you are my client can't object. An old bachelor ill

usually has plenty of spare time.

When he was gone Miss Cather face was unusually smiling. She Babe in her arms, after decorating him with a wide blue bow, and sate her shady piazza in plain view Winslow, who with a bandaged kee limped on his piazza, leaning heard on the arm of his wife. He glared her, but her face wore a pression. Someway alarmed any more. Someway, she did not is

It was surprising how many of Mr. Allen found it necessary to mak
On his next visit he reported hav
had a heart-to-heart talk with t
doctor, who had decided not to all
bute the lame knee to anything me than rheumatism and a poor contion of the blood. On the next w he reported, that in view of unsavory record, which he, unearthed against him, Mr was willing to withdraw th against the cat being a vici ture. On the next visit he as Catherine if she would obje bought the place. It just su and he was willing to pay

price for it, on e Winslow was will

pleasantness Mis Catherine' low over Babe, wl and she knew wh bled as she blue ribbon. "It she answe and as long as h I would rather you anyone else.

Outside the Ju their beauty; the in their pure love ming birds darted fragrant bloom of Babe perched on I and purred a peri piness upon his tw oking across the Winslow, with sea his walk, was scole deners.

Bless Billy." "And bless Ba .

Soup will be as day as on the firs ing point. It sh dish and put asid cover the soup, as to sour. .

To keep bread b rub them well w in the wind or su



price for it, on condition that Mr. pleasantness

pleasantness.

Miss Catherine's sunny head bent low over Babe, who was curled in his own chair. Her heart beat rapidly, own chair. Her heart beat rapidly, and she knew what was coming, but she did not look up. Her fingers trembled as she tied and untied the blue ribbon. "It is a beautiful little place," she answered, in a low voice, "and as long as he is going to sell it. I would rather you would buy it than anvone else

anyone else."

Outside the June roses rioted in their beauty; the white lilies nodded in their pure leveliness, and the humming birds darted in and out of the fratrant bloom of the garden. Inside-Babe perched on Mr. Allen's shoulder and purred a perfect benison of happiness upon his two friends, who were looking across the lawn where Mr. Winslow, with scarcely any limp to his walk was seelding one of his gardeners.

"Bless Billy," said Miss Catherine.
"And bless Babe," echoed John echoed John ...

Soup will be as good on the second day as on the first if heated to boiling point. It should never be left in a saucepan, but turned into a dish and put aside to cool. Do not over the soup, as that may cause it to sour. ...

To keep bread boards a nice color, rub them well with half a lemon, then wash in cold water and stand in the wind or sun to dry.

# The Upward Look

A Cure for Poverty

"Thy kingdom come.

So we have prayed for two thou-sand years. And the kingdom to-ward which every Christian looks with ward which every Christian looks with earnest expectation is not yet here on earth. It never will come on earth while God's will not obeyed here as it is in Heaven. The crainly will never come while our crainly will never come while our crainly will never come while our crainly will a few to monopolize the bounties of a few to monopolize the bounties of nature and live in luxury while the many, equally God's children and equally entitled to His bounty, live in poverty or near poverty. Last week poverty or near poverty. Last week we promised to discuss the method we promised to discuss the method proposed by the great Henry George to do away with monopolization and the poverty that results and conse-quently to really do God's will.

Henry George divided the needs of people into two classes—personal needs and public needs. He saw clearly that God had provided for all personal needs by the richness of personal needs by the richness of nature but that people were not per-mitted to have free access to it. But how about the public revenues? Had God provided for them? And then came another revelation of just how thoroughly has our Heavenly Father anticipated our every need. Henry George observed that just as popula-tion increased and the need. tion increased and the need for revenue for community purposes increased so did the value of the land. He found that the increase in earning power of land, due to the centraliza-tion of population, was fully equal to the increased needs of the commun-

But instead of taking that increased But instead of taking that increased earning power for the good of all, as cur Heavenly Father had clearly in-tended, Henry George found that peo-ple were allowing the landlords to ple were allowing the landlords to take the most of that revenue while public requirements were largely met by taxes on buildings, machinery and even on the food and clothing of the people, thus rendering these necessi-ties more expensive

ties more expensive
Why not, asked Henry George, take
all taxes off buildings and other products of labor, stop all protective tartiffs which make the meessities of life
harder to obtain, and as he betaxes
on the value of land, as he betaxes
of the value of land, as he betaxes
of the value of land, as he betaxes
of de had intended. Then, said he,
the value of land will go into the public treasury and will be used for the
good of all. When land increases in
value the nublic reverues will be ingood of all. When land increases in value the public reverues will be in-creased and all will be better off in-stead of these increases making rich men richer and poor men poorer be-

men itcher and poor men poorer be-cause of higher rents.

He saw too that his plan which he called the "Single Tax," would cause God's will to be observed in another way. When all taxes are collected from land values, he reasoned, the taxes on unimproved land will be so heavy that the owners will either have to work it themselves or permit oth-

(17) ers to work it. Thus would the peo-ple be given access to the land so long denied them. This is the Single Tax, a cure for

involuntary poverty and a method of causing God's will to be done on causing God's win earth.—I.H.N.

Laugh a Little Bit

Here's a motto just your fit, Laugh a little bit. Laugh a little bit.
When you think you've trouble hit,
Laugh a little bit.
Look misfortune in the face,
Brave the beldame's rude grimace;
Ten to one 'twill yield its place
If you have the wit and grit
Just to laugh a little bit.
Cherish this as sacred writ,
Laugh a little bit.
Keep it with you, sample it,
Keep it with you, sample it,
Little if little bit. Laugh a fittle out.
Little ills will sure betide you,
Fortune will not sit beside you,
Men may knock and fame deride you,
But you'll mind them not a whit
If you laugh a little bit.

... Tar stains may be removed from dress goods by moistening with olive oil. Let stand a half hour, then wash with tepid lather. Do not wring, but let the water drip as it hangs up.

If a boot or shoe pinches, a cloth wrung out of very hot water and laid over the place while the boot is on the foot, will expand the leather and give instant relief.



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BOX 1112. FARM AND DAIRY, PETERBORO, ONT.

#### Plants for Winter

Now is the time to make prepara tions for winter plants, before Jack Frost nips our garden flowers. We sometimes hear women say that

they do not bother with flowers in vinter, as it is rather difficult to keep winter, as it is rather quincult to keep them looking healthy and safe from frost. But after all are they not worth a little trouble and attention when we consider the difference a few flowers make in the home during the cold, dreary days of winter when evwy mantle?

If slips are taken from the flowers If slips are taken from the flowers that are too large to bring into the house, they should be blooming nicely by winter time. Geraniums and fo by winter time. Geraniums and to liage plants grow well in the garden and also in the house if planted in good soil and pots of suitable size. Leaf mould or well rotted manure placed in the bottom of the flower pot with some good soil from the woo lot on top, is splendid for plants. A novel idea that came to our n

A novel idea that came to our no-tice recently was to gather flower seeds after the frost comes. If we push back the leaves and dirt in the flower beds we will find the seeds that have fallen and by planting them in pots will have summer flowers blooming in our windows in winter. The idea is worth trying out.

#### Housekeeping Course at Home Mrs. J. McIntyre, Welland Co., Ont.

We farmers' wives are not all lucky enough to have taken a Domestic Science or Homemakers' Course at one of our colleges; but if we have not one of our colleges; but it we have not excused from being good housekeepers; just the same. I believe that a course of this nature is very beneficial and that wherever possible our daughters should be allowed to avail themselves. of this opportunity as it will prove of untold value to them.

Many of us, however, feel that we cannot afford this training for our girls. Nevertheless, we can give them

giris. Nevertnetess, we can give them a thorough training in the arts of housekeeping right in our homes. In too many instances, we fear, the idea is prevalent that while book-keepers, teachers and so forth, require special instruction along the particu lar lines they have chosen, a girl can become a successful housewife without any previous special education.

CREATE INTEREST

It seems to me that every mother should realize that if there is one thing above all others that she owes her daughter it is a good training along household lines. The only way this training can be successfully imparted is by getting our girls interested in all the daily tasks and allowing them to try each one in turn. Although we may oftentimes think that we could do the work in half the time and much better, yet we should remember that we ourselves had to this training can be successfully imlearn at one time

I have two daughters and ever since they were old enough to assist me, I have held them responsible for some of the tasks in connection with the household routine. As they grew older they were allotted more responsibility and now they take turns in running the house. Of course I am general manager and am usually on hand to

We have tried to plan the work so that each one is treated fairly. One week one girl will look after the buying of the groceries, meat and everything necessary for the meals, as well as the preparation of the same, while the other one will have charge of keeping the house in order and vice versa. In this way there is a friendly rivalry between them as to who will be most successful, with the result that the work is usually performed in good shape.

# Deafness



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WE WILL PAY YOU \$120.00 portunity for promotion. Spare tim International Bible Press, 182 Spa

# THIS WASHER MUST PAY FOR ITSELF.

MAN tried to sell me a horse once. He sak t was a fine horse and had nothing the matter with it. I wanted a fine horse, but, I didn't know anything about horse much. And I didn't know the man very well

my money if I once parted heres, although I wanted to be a support of the control of the control

wearing or tearing them, in less than half fittime they can be washed by hand or by any other than the continuent of the

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10KE BLOUSE OR SHIRT, 739 and 10 to 10 to

CHILD'S CIRCULAR CAPE, 7948



Entroy Ultrie girl should own a cape and the should own as the should be sho

with a yard 27 inches wide for the g for the hood.

Is pattern is cut in sizes for children 2 and 4 years

lining for the Bood.
This pattern is cut in sizes for children
This patt



shown in large view.

This pattern is cut in sizes for girls of.
16 and 18 years.



wine, with 1 yard at trimming. This pattern is cut in sizes for boys of 2, 4 and 6 years of age.



this pattern is cut in sizes for boys of 4 and 6 years of age.

FOUR-FIECE ORAPED SKIRT, 1937

The skirt with just of a slight drapery is one of the control of the control

For the medium size the skirt will require 5½ pards of material 27 or 35. 2% yards 44 if them thouse the skirt will require 5½ pards 44 if them thouse the skirt will read the skirt will be subjected by the skirt will be skirt w

PLAIN BLOUSE, 7940



OUSE. 798

The simple bouse number with property of the proper

yard 27 inches wide yard 27 houses to the cut in sizes for 54, 56, This pattern is cut in sizes for 54, 56, 38, 40 and 42 inches bust measure.



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(19)

Do you have of the many advantages the Mew Ontario, with its Miller of the Mew Ontario, with its Miller of the Mew Ontario, with its Miller of the Mew Ontario, which is made a feet of the great territory, and for the great territory and for the great territory. The control of the great territory and for the great territory of the great territory and for the great territory. The control of the great territory of th

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MANTLE LAMP CO., 724 Aladdin Bldg., Montreal & Winnepeg

#### MANOR FARM

Senior Herd Sire, Prince Hengerveld of the Pontiacs, a sen of King of the Pontiacs and from a daughter of Pietertje Hengerveld Count De Kol. Junior Herd Sire, King Segis Pontiac Posch, a son of King Segis Pontiac Alcaria (the oo bull), and from a 29.62 lb. 3 year old.

We will be glad to mail to anyone extended pedigrees of these Sires. We are offering a limited number of cows in calf to them for sale.

No Heifer Calves for sale at any price

GORDON S. GOODERHAM

BEDFORD PARK, ONT.

## FAIRVIEW FARMS HERD

Some of PONTIAC KOENDYKE ready for exvice in the sear fature or younger, some and daughter of SIR JOHRANDYHL (JABA), whose three income and daughter of SIR JOHRANDYHL (JABA), whose three income income income and the search as purposed to expend the search as purposed to the search as purposed by the search as t NEW YORK HEUVELTON, E. H. DOLLAR. (Near Prescott, Ont.

# 15.345 lbs. in 1 Year

# Lyndale Holsteins We are now offering Bull Calves from 1 month to 7 months old. All are from official record dams and sired by some of the greatest bulls in Canada.

Brown Bros., Lyn, Ont.

For a ir. 2-year-old, milked twice per day. She is a daughter of Dutchland Colantha. Sir Abbekerk A pair of his sons from 22 and 25-lb, 4-year-olds for sale. Both extra show bulls, old enough for service. Write for pedigree.

AYLMER, ONT.

Over 30 head to select from. All in good condition. Cows and heifers are bred to King Segis Pontiac Koningen, who is a % brother to King Segis Pontiac Alcartra—the \$10,000 buil. Come and look over the herd or write your needs and we will try to fill them.

J. Alex Wallace

Cows Heifers Calves

Heifer Calves Bull Calves Mature Bull

#### **Bullsfrom High Record** Registered Holsteins Dams

Sired by Canada's Greatest PONTIAC BULL

One 6 months old out of a 29-lb. three-year-old daughter of King Segis Two grandsons of Pontiac Korndyke out of 25-lb. daughter.

Several others of lower records. Every one splendid individuals and some ready for service.

AVONDALE FARM

Lynn River Stock Farm, Simcoe, Ont.

A. C. HARDY . . BROCKVILLE



# HET LOO STOCK FARM

Present offering a son of Minnie Landes. Les Chenaux DeKol Burke and Paul DeKol Jr. Blood. Calf sired by a son of King Segis and out of daughter of Paul Beets. Write for price.

HET LOO STOCK FARM, VAUDREUIL, QUE.

GORDON H. MANHARD, Manager Dr. L. de L. HARWOOD, Proprietor



Evergreen Stock Farm



# High-Class Registered Holsteins

Winners of 20 First Prizes at the Canadian National Exhibition this year-a record unsurpassed by any breeder of Holsteins in Canada.

At present we are offering for immediate sale to make room for our full crop of Calves, ten Head of Females, composed of Young Cows, Yearling Heifers and Heifer Calves. These will be priced very reasonably and should find quick

We are also offering one choice Young Bull, ten months old, winner of 4th prize at Toronto and 1st at London. His dam is a 15-lbs. two-year-old daughter of Madam Posch Pauline, 101.3 lbs. milk one day, 660 lbs. in seven days and 26.8 lbs, butter seven days at four years of age. His sire is Prince Abbekerk Mercena, grand champion bull at Toronto and Ottawa this year. This young bull has every chance of having a dam and grand-dam with 30-lb. records. He is mostly white and weighs nearly 800 lbs. Anyone buying will have the privilege of returning him if not suited. First cheque for \$200 takes him.

## A. E. HULET BELL PHONE

NORWICH, ONT.

#### MECHANICAL MILKERS RUN BY FOOT POWER.

The phrase, "Mechanical milking, of a stable suitably piped, a dairy room filled with unit cans and numerous rubber tubes, and near the stable somewhere a gasoline engine that supplies the power to milk the

To some farmers, however, a milkso complicated or expensive farmers in Canada, more in the Unit ed States, and a still greater number in New Zealand, think of the milking machine as a light piece of apparatus that any farmer can carry around in one hand, with which no piping is needed, and for which the milker's foot supplies the power. We refer to the foot-power milking machine, of the type illustrated on this page.

THE MACHINE ON TRIAL This milking machine has been in use a long time, and quite extensively used. It is noticeable that it is recommended by any of the United States Experiment Stations that have tried it. Canadian experiment stations have never given the foot-power milker a test,but Canadian dairymen have. Mr. V Sturgeon of Leeds Co., Ont., a breed-er of pure bred Holstein cattle, wrote

recently regarding this machine as follows: have used a foot-power milker for three years with perfect satisfac-tion, milking 10 and 12 cows. I have milked 10 cows in 30 minutes, after

the cows had become accustomed to the machine. I can milk two cows with the machine much quicker than a person can milk one by hand. And the more milk the cows give the

better the machine seems to work. COWS TAKE TO IT

"The cows take kindly to the ma-If milked carefully they will seldom lift a foot at the first milking but do not milk out as well the first few times as they do later. chine does not injure the tests or udder in any way. In fact, if you do not milk carefully after a machine they will not take kindly to hand-milking. The machine will milk a sore teat and not hurt it as does a hand milker. I have noticed no dif-ference in the flow of milk.

"As for milking dry, the machine will do its part if the man and cow do theirs. The machine is simply an air pump, and it does not take a very large hole to let in air. When some air gets in you will not get milk, and that is where the trouble comes in milking them dry. If one understands his business there is no trouble. It is not much trouble to clean out the wagon with a shovel after you have unloaded a load of manure with the fork. would scrape out the wagon; others would not. Just so with stripping the cows. Of course the machine will have to take the blame if the cows should happen to drop in their milk when you do not expect them to, or if they are not doing as well as you think they ought.

WORK FOR THE BOSS

"The only drawback to the machine is that the boss will have to do all the milking himself, as there is not one man out of 25 that would learn to use a machine because the milker has the cow's nature to work against, and no two cows are alike.

I have had a stranger walk into my
stable when milking and start to talk. The cows would stop milking. stable must be quiet.

able must be quiet.
"I have no hesitation in saying that the milker is O.K. There is no expense except for disks for milk cups at five cents each; two sets will last a season. All the power necessarv is a two-legged man."

"I used the milker four years continuously, as long as the cows were

milking," writes Geo. H. Tachaberry, Leeds Co., Ont. "During that time I kept from 12 to 18 cows. Conditions being equal on an average milk two cows with the milker a With one exception, my cows took kindly to the machine; they would stand chewing their cud, as if being

milked by hand. "As to milking dry; at first practiced stripping after the milker, but it seemed to be establishing a habit, so we quit it and used the machine only, with no ill results, machine milking as dry as the In my experience I could see no jury to the udders nor a tendend dry the cows. Having reduced stock, owing to selling part of my farm. I have not used the milker dur-ing the last five years. One should have 10 cows or over to work to good advantage

WHO SHOULD OWN A MACHINE "I have no hesitation in recom-mending the machine to any dairy-



Foot Power Milker in New Zealand

man of ordinary mechanical know ledge and patience; the latter is required on the start, and the former all the time. Every joint must be air tight in order to milk. If joints are not tight there will be no milk. and probably some bad humor. an intending purchaser I would say: read and follow the directions carefully, and use your own brains as well, for cows are not like machines. They are not all alike in either disposition, or udder and teats. Pair your cows as nearly alike as possible as to size of teats and easiness to milk. Don't put a tough and easy cow together.

"I have had no experience with any other milker but for efficiency I think the foot power milker would be hard to beat. Being worked by foot power the operator can control the suction, regulating it so that it is not too strong or too weak.

## Economy of Autes

"If one wishes to go a long distance, you can go much cheaper by auto that by train," says Mr. Marshall, a dairy farmer of Hastings county, Ont. "Last farmer of Hastings county, Ont. "Last summer I went from Stirling to To-ronto and back with six passenger and made the round trip on about M gallons of gasoline and half a gallor of cylinder oil."

"I have run a car for three season now. I would recommend a light car as it is easier to keep up. I can run from 20 to 25 miles on one gallon of gasoline according to the reads e set of tires will average 5.000 to 8.000 miles. Any farmer who can handle farm machinery can care for a car. My son, 12 years old, drives of car perfectly and my wife is safer with it than she is with a horse."

Early celery may be bleached by wrapping paper about each plant of by placing boards along the plants Dirt is apt to cause decay on early celery, although it is desirable to us it for the late crop.

## \*\*\*\*\*\*\*\*\*\*\*\* MARKET \*\*\*\*\*\*\*\*\*\*\*\*

October 2, 191

Monday, is ening fairly reports of cide the ac decide the act by ments, how the control of the con

Canada's shar this year and such figures influence on fi has been con er rate. To da rio erop have steadily main is quoted 89%

Mr. Gilbert is

Mr. Gilbert is Alexander G. Gilbe Poultry Expert and Mr. Poultry Expert and Mr. Experimental Faren, O. Foultry Department at Experimental Faren, O. Mr. Gibert has been is for some time, and the formie will not come; exer. will feel almost exer. Gibert with the feel almost exer. Will feel almost exer. Mr. Gibert with the feel almost exer. It will be feel almost exer since. Of Mr. Gibert will be all the Experimental F which position he has a will be gibert exert exercise. Will feel almost exer since. Of Mr. Gibert exercise and exercise. Of Mr. Gibert him.

No. 2. 84c outside; COARSE GRAI re is a fair trade in trade in the control of the c

HAY AND STRA HAY AND STRA ations are not imate that in Juebec as much last year's or hands. De to wever, both the needed for fe quotations are to \$14; No. 2, 8; merican dealers in the count d on the city m an abundant abundant changed so \$13.50 to \$ AND POULT markets show dozen on egg casonable, and oncoming of oncoming chations may rs quote as i fresh, 27c to to 22c. Mont

to 22c. Monthly firm market, at this time a ting 23c to 25c th loss off.

# MARKET REVIEW AND FORECAST

Monday, Sept. 23. — Fall fowl, If to 15c; live, Ife to 15c; spring ry reports of the crops, while decide the activity of all busic decides and activity of the ac

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## Mr. Gilbert is Dead

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Alcander G. Gilbert. Canadian
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Local dealers are paying farmers for seed as follows: A'sike No. 1, \$7.75 to 88; No. 2, \$6.50 to \$7.50; No. 3, \$5 to \$5.59; No. 2, \$2.

No. 2, 82.

Trade is brisker, and prices have advanced somewhat. Quotients are: Hides, cured, 13% to 14%; greenen ser: Hides, cured, 13% to 14%; greenen series share 376; cilf skins, 17c to 18c; lamb skins, 56 to 68.

culf skins, 1re to toe, wanted (65c.

Weol quotations are: Unwashed, coarse, 1640 to 1fc; fine. 17%c to 184c; washed, coarse, 25%c to 25%c; fine, 27c to 27%c.

Coarse, 25% to 2

to dec. grapes, 601, bb.21, bears, bkt., 36c
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## AYRSHIRES

**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.

#### SUNNYSIDE AYRSHIRES

SUNNYSIDE ATRISHIRES
Imported and Home-bred, are of the
choicest breeding of good type and have
been selected for produced to the selected
Young Bulls dropped this fall, at 118, 22
Young Bulls dropped this fall, at 118, 22
Nother Hall Good-time "26,841-(Imp.),
as well as a few females of various ages,
for sale. Write or come and see.

J. W. LOGAM, Howick Station

J. W. LOGAM, Howick Station

('Phone in house.)

# HOLSTEINS



month to 9 months. Bull Calves, from 1 to months. Also Cows up to 6 years.

WM. HIGGINSON, INKERMAN, ONT.

# Lakeview Holsteins

Bull calves only for sale for the pro-Buil calvee only for sale for the pre-sent, aired by Count Hengerveld Fayne De Koi or from his daughters and aired by Dutchind Colamba Bir Mona-Write for extended pedigrees of these buils, or come to Bronte and see the herd. Visitors always welcome.

E. F. OSLER, BRONTE,O NT.

# HOLSTEINS

# RIVERVIEW HERD

# OXFORD DISTRICT

In the Holland of North America
Is the palce to buy Holsteins of quality.
The Third annual sale will be held in the
city of Woodstock on March 25th, 1914.
Full list of breeders in the Oford District
with post office and station addresses cent
on application to R. J. KELLY, SECY., TILLSONBURG, ONT

## Registered Holsteins For Sale

One Bull, 9 mos. old; one 4 year old Cow o calve September 25th; one Heifer Calf, mos. ol

Jesse Looker - Mitchell, Ont.

## Live Stock Wanted

If you have any Thoroughbred Guern-sey, Ayrshire or Loistein Heifer Calves-Brood Sows or Sow Pigs for sale - com-municate with

P.O. Box 176 - Westmount, P.Q.

## LAKESIDE DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dam; also a few females.

W. P. BELL, BRITTANNIA HEIGHTS, ONT Ottawa Bell 'Phone

# Scores of Men Will Mail This Coupon

They will be progressive men-men who believe in keeping right-up-to-date-men who have heard about the latest and best type of gasoline engine for sale in Canada, and who now want further information.

Show that you are one of these progressive men. Fill in, cut out and mail the coupon now. The wide-awake, get-ahead man does things right away.

# Information Coupon THE RENFREW MACHINERY CO., Limited RENFREW, ONT. When to blighting me in any way, mail me /our catalogue and circulars fully describing the Renfrew Stend rd garoline engine, white or the fly-ball standing has a governor of the fly-ball standing, mar as governor of the fly-ball standing before the fly ball standing before the Form and Dairy, Peterboro, Ont.

NOTICE I wish to announce that I have a arge importation of prize winning oress, just arrived from France, Bellum and Scotland.

Percherons, Belgians, Shires, Clydesales, Hackney and French Coach

lales. Hackney and French Consistency and Stations, Stations and Stations and Stations and Stations and Ottawa. It is a superior and championshipast Shortbrook and Ottawa. Stations are of the station and the superior and championshipast Shortbrook and Ottawa. Stations are superior and stations and the stations are superior stations and stations and stations are superior stations. The station is superior superior stations are superior stations are superior stations are superior superio

J. E. ARNOLD - GRENVILLE, QUE.

## "Somebody Took My Farm and Dairy"

is the substance of a good many letters we'get asking us to send for-ward another copy.

If you are troubled that way give us "his" name and we will send him a subscription blank, and a gentle hint

RURAL PUBLISHING CO. Peterboro, Ont.

# Sir Lyons Hengerveld Segis

I am offering a young son of this great bull, that sold for \$1.500 when a calf. This youngster is a nice individual and out of a grand-daughter of Sarah Jewel Hengerveld the 8rd a \$2.000 cow. Price reasonable. Will meet interested parties Peterboro by appointment, or write 105. O'REILLY, ENNISMORE P.O., ONT.

#### FOR SALE

Vestern Ontario Modern equip-nent. Splendid territory. Conven-intly situated. Price reasonable. · FARM AND DAIRY.

# You Can Sell

Your pure bred cattle, any surplus stock you have, by advertising in these columns of Farm and Dairy. We take you nest upwards of 17,000 possible buyers, and at a cost very small to you for this great service-only \$1.40 per inch.

Send your advertisement to-day for next issue.

Farm and Dairy, Peterboro, Ont.

We want a man in every locality in Eastern Canada to sell our big line of Household Necessities, Medicines, Extracts, Spices, Stock Remedies, Poultry Supplies, etc., - direct to farmers. Every one a household necessity, sold on Rawleighs' Pay-After-You-Are-

YOU CAN MAKE



NO DUTY TO PAY. Good freight service. Practically no competition. Where the only Company who eans and operates its own acrory in Canada. Hundreds of our salesmen are making money here in the West. Now is the time to secure.

EVERY RAWLEIGH SALESMAN is EVERY FLAWLEIGH DALLOMAN IS backed by the service of one of the deet Buying Manufacturing and Distributing Organizations in North America. Established 19 years. Capital and Subuls over \$2,000,000. References: Duris, Bredstreets, or any bank in Winnipeg. Write today for full particulars.

THE W.T. RAWLEIGH MEDICAL COMPANY 65 GUNNELL ST., WINNIPEG, MANITOBA



# **Breeder's Directory**

Cards under this head inserted at the rate of \$400 a line per year. No card accepted under two lines nor for less than six months, or 26 insertions during twolve months.

น้ออออออออออออออออออออออ FOR SALE-2 Sons of King Fayne Segis Clothilde, from B. O. P. cows. Also three Clyde Fillies and 3 Stallions, Yearlings. -R. M. Holtby, Manchester, Ont.

SPACE right here costs you only \$4 a reading line a year. Takes you weekly to 13,000 possible buyers. Oan you afford to be out? Then come in! Write Farm and aDiry to-day about it.

#### WANTED

Steady position as buttermaker by competent man.

WM. YOUNG - CULLODEN, ONT.

\$700 in Cash Prizes can be won with a load of 15 Steers AT THE

FOURTH ANNUAL

# TORONTO FAT STOCK SHOW

UNION STOCK YARDS, TORONTO

SATURDAY and MONDAY, DEC. 6-8, 1913

THERE ARE OTHER LIBERAL PRIZES OFFERED

ENTRIES CLOSE, NOVEMBER 25th, 1913

For all information address

C. F. TOPPING, Secretary Union Stock Yards, TORONTO

EXECUTIVE COMMITTEE Robert Miller J. H. Ashcraft, Jr. J. W. Wheaton

Martin Gardhouse

Make Sure of protecting yourself against loss, by mentioning Parm and Dairy 'when writing to devertisers. Note conditions of our guarantee on Editorial Page.

EXPORT CREESE TRADE

Montreal, Saturdary Sept. 27—The easy feeling which developed iast week in the market for choses was continued this week and prices dropped according to the market for choses was continued this week and prices dropped according to the week and prices dropped according to the week and prices dropped according to the prices of the EXPORT CHEESE TRADE

sold them. Lastly, several Holste 'Pris, ian breeders have written me as what should be expected from Holste 'Pris, ian bulls in grade or sorub herds about the prished were finding fault as to the opcome in color of calves.



The Proof of the Value of High Grade Seed

"It all comes out in the threshing." That is the best test of the value of good said of a good variety. This scene is the threshing that yielded H. R. Nixon, Brant 5, Ont., 48 bushels of O.A.O. 80, 21 barley to the acre this year.

higher prices are looked for next week, there is keen competition for the offerin as was only saved by a black spot

higher prices are looked for next week, as there is keen competition for the offerings in the control of the offerings in the control of the offerings in the control of th

CHEESE MARKETS.
Campbelltord, Sept. 23.—669 boxes boarddet all sold at 13%- Woodstock, Sept. 28.—1.046 cheese, 100
being white. Beet bid Lie, none sold.
All sold at 15c.
Frockville, Sept. 29.—The Offerings were
2,325 colored and 815 white. The highest
offer, 121136c was refused.
Kingston Sept. 29.—The oboses colored
boarded, and sold for 12%-

BOSTERN COLOR FADS.
During the past year or two, I have been brought into centact with the color question from an unexpected angle,—that of its relation to pure brode Hoistein—and the property of the relation to pure brode Hoistein—and the property of the relation to pure brode Hoistein—and the purchase of a pure-bred bull; and of these mentioning color four-fit when I asked their reasons for preferring light colors, almost to a man they amount of the terms of the purchase of the purchase

was only assed by a black spot as as a silver dollar; and I have seen as a silver dollar; and I have seen what is to be expected if a put light colored Holstein bull, with the dency to black weakened for great silver and the silver

THE HORSE SHOW AT GUELPH

THE HORSE SHOW AT GUILLPH FAIR
The Rorse Show at the Out without Winter Fair to be held a number of the Horse Show and held of the Horse Show and hetter than ever. The Horse Show and Canadian-brid density will, no doubt, result in a her will her will be a subject to the her w

October 2, 1913 \*\*\*\*\*\*\*\*\*\*\*\*

**OUR FARMER** \*\*\*\*\*\*\*\*\*\*\*

QUEBEC COMPTON CO. N. Sept. 22.—Wand little rain-te gone dry a and little rain-have gone dry at few have finis They are a fir price. Grain wa to much threshin atoes are selling 4c; eggs, 250.—H

ONTARI KIMBOUTH BADE 22
day made Galway Fair P
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Market P HALIBURTON C

RANKORD, Sept. 25, de recently, was a gr. Mallory had 12 head ek and white herd out the prizes. E. W. Breeys, and W. C. Ke arlow, a fine herd of tetin exhibitors were: 4 R. O. Morrow, Hills, better as and R. O. Morrow, Hilt-to be getting better as year. All leading breeds well represented. I wou ask about the horse show pace.—W.I.

PERTH CO., WILLOW GROVE, Sept. has been very dry; very ing done; a lot of light pl



**INKA SYLVIA** KING PONTIA SONS AND DA

Full particu

the choice breed

OUR FARMERS' CLUB

The stant of the land. We had a good at the stant we have a stant of the stant we were stant of the stant we were stant of the stant we were stant on the stant we want to stant our stant we were stant on the stant we want to stant our stant

Our FARMERS CLUB

Typescore and the second of the land. We had a good provided the second of the sec

100 Head

Selected Individuals

Proven in Milk and

Butter Production

# Holsteins at Brockville

# Tuesday, Oct. 21, 1913

In contributing these superior animals to this big Consignment Sale, every breeder is aiming to make this the Greatest Advertisement Sale of the season. They are consigning of their very best. A satisfied customer is the best "ad" a breeder can have.

# This is your "Thanksgiving" Opportunity

NOTE THESE OFFERINGS-

INKA SYLVIA 6th—29 lbs. butter in 7 days, at 4 years old.—the highest 4 year old record cow in Canada.
100 lbs. milk in 7 days,—the youngest cow with this record. 2900 lbs. milk in 30 days. KING PONTIAC AVONDALE (1 year old)—He carries 75% of the blood of Pontiac Korndyke and Hengerveld De Kol.

SONS AND DAUGHTERS of Ray Apple Korndyke 18th.—The only place in Canada where offspring of this bull can be secured.

AND MANY OTHER CHOICE INDIVIDUALS

From the well-known herds of W. C. Stevens, J. W. Stewart, G. A. Gilroy, A. C. Hardy, and will include the out-and-out dispersion of the magnificent herd of that popular Holstein Breeder, Gordon H. Manhard.

# YOU WILL REGRET IT IF YOU MISS THIS SALE

Full particulars of breeding, individual consignments, etc., given in catalogue. Write at once for your copy, and learn all about the choice breeding of the animals we offer you. Write to the Secretary.

A. C. HARDY, SECRETARY BROCKVILLE, ONT.





This label, on every bag, indentifies Canada Portland Cement OLD STI

Make certain of complete success in your concrete work by always using

# CANADA Portland CEMENT

We are supplying Canadian farmers with the highest quality of Portland Cement it is possible for human skill to make.

We have reduced the price of Canada Portland Cement until it is within your reach for practically every purpose. It is the only building material that is not increasing in cost.

Be sure and ask for CANADA Cement, in bags

Canada Cement Company Limited, Montreal

If you have not received a free copy of "What the Farmer Can Do with Concrete," write our Information Department and get one. It's a complete practical concrete encyclopedia.

See that every bag of Cement you buy bears the "Canada" label--it is your guarantee of satisfaction