Fifth Annual Special Orchard and Garden Magazine Number

VOL. XXXII.

NUMBER 10

RURALHOME

PETERBORO, ONT.

MARCH 6

1913



SPRAYING IS ESSENTIAL TO No. 1 FRUIT, THE ONLY PROFITABLE KIND NOW-A DAYS Spraying, pruning, cultivating, fertilizing,—all of these operations find a place in the practice of the up-to-date fruit grower: but of all these the most important is spraying. Only when we spray can we hope for clean, worm-free fruit. Our cooperative fruit growers' associations recognize the importance of spraying and no member is tolerated who neglects this important operation. Manufacturers have also noted the growing interest in spraying and now make high-power machines that do the work efficiently and cheaply. Such a machine is the outfit here illustrated, at work in an Essex county orchard. Sooner or later we all must spray. The time to start is now.

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If your enquiry as to the success the Maxes had in operating the 5th Mechanical Mileon, supp. 5th Mechanical Mileon, supp. 5th Mechanical Mileon, supp. 5th Mechanical Mileon would say that we are well pleased with them. We have kept records of our herd yields for some time, and find that the machine does not affect the yields of once to any appreciable estent.

cows to any appreciante extent.

If There have only been four cows

In our hard that did not take
hight to the Milker, and we are
one hundred cows regularly. The
set results are obtained from helfchines. In this case, the stripping,
while we follow the practice with
them as with the older cows, might
in all cases have always milked
out clean, uniese a mistake of
some kind has been made.

As to the economy of the instal-lation, I figure that with aver-age milkers in a herd the size of ours, the outfit will pay for itself in ONE YEAP.

In a smaller herd the saving would be less proportionately. We have had ro difficulties with men since installing the machine, and the men appreciate the saving as much or more than the manage-ment, if that were possible.

ment. If that were peerble of the pe

If you may use this letter in any way you like, for I feel, after a year and a half's experience, that the milker is an undoubted boon to the dairy farmer.

(Signed) R. E. GUNN, Owner and Manager, Dunrobin Stock Farm, Beaver-ton, Ontario.

Write us for an estimate of just what it will cost you to have a B-L-K Milker in your stable. Our booklet describing these machines will interest you. Send to-night for your copy.

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Full particulars from any C.P.R. Agent, or write M. G. Murphy, District Passenger Agent, Toronto

HOW FASTERN FRUIT MEN MAY RETAIN A MARKET IN THE WEST

N. B. Ireland, Saskatoon, Sask.

A one time Ontario Fruit Dealer, now in the West, tells of some of the things that: Eastern Shippers must do if they would Successfully Compete with their Western Rivals, for the Prairie Markets.



N. B. Ireland

erners. - the fruit growers of British Colum-British Colum-bia, Oregon and Washington are taking first place and rapidousting Ontario produc-er. If Ontario producers wish to retain the west-

it will be necessary for them to observe some of the following points, which from my experience in the fruit trade of the West. I judge would enable them to meet the consumers' demand.

For small fruits a box of a pint to For small rules a box of a pint to a pint and a half with 18 boxes to the crate and the crates of heavier material than the present 24-box crate now used is advisable. This applies to boxes for strawberries, applies to boxes for strawberries, respherries and all the more juicy fruits, as the present imperial quart box is too deep for long, shipment, the lower berries being weighed down by those above. In the shallower box the berries would be only two to three layers deep and would keep better. If a slat box crate with ends from nine-sixteenths to three-quarters of an inch in thickness were used the crates could then be piled. used, the crates could then be piled in a car and would not be damaged handling or the rolling of the car. In a crate containing 18 boxes there would be sufficient ventilation to prevent the fruit molding.

PACKING TRINDER FRUIT
Such fruit as peaches, pears,
plums, tomatoes and early apples
should be packed in a small box about
eight to nine inches square and four to the crate; or eight to the crate if there is a bottom placed under the top layer to keep them free from the under Loxes by an inch or so. The boxes should be deep enough to con-tain not more than two layers of paper lapped fruit of all the soft varieties as the fruit, coming in con-tact and rubbing by the vibration while in transit, begins to decay and therefore lower the profit of hand-ling and also the desire to order any more from the same source. the crate; or eight to the crate if ore from the same source.

Ontario fruit men must adopt standard box of about 60 to 70 pounds for the apples and hardier pears. For several reasons the box is preferable. several reasons the box is prefrable. The barrels now in use amanting factory. They are to seasy for one person to hands were to places required. However, the property of the places required. However, the property of the p they feel they can spare to buy ap-ples. All these are valid reasons for the producer complying with the re-quirements of the customer.

As regards grading of fruit and honesty in packing, I believe that a hosenty in packing, I believe that a law requiring the packe: to place TO DISCOURAGE DISHONESTS

RUIT growers East and West are his name on each outer crate in type both competing for a place on the plain enough to be read distinctly markets of Western Canada; and would soon compet the dishonest in this case the packer to go out of business. The conwise men do not sumer would learn that he, the packcome from the er, was dishonest. By making the East. The West-law so that an inspector or any constable or police officer could summon any person using a receptacle another's name on it or packing front true to name and grade, before the most convenient magistrate for trial and place the risk beyond the likelihood of gain by a stiff penalty, this constant receiving of doctored boxes and barrels experienced in this country would be stopped. And from many years of experience on the mar-ket at Hamilton, Ont., before coming here, three years ago, I can say the writer is pretty sure it is possible to have Ontario Fruit so good as to hold the same respect in this western country as the fruit of any other place.

THE TRANSPORTATION PROBLEM

I know the producers in Ontario are handicapped by the railroads into these provinces giving them poor ac-commodation. There is no reason commodation. There is no reason why fruit should take 11 or 12 days to get from the Niagara Peninsula to this point, three or four of which is spent at Sutherland station three miles from here. If proper methods of packing were followed there would soon be enough fruit in cars shipped west that the reilroads could either, by cooperation, place their cars at a central point such as Hamilton or Toronto and then make a solid fruit train to some central point such as Brandon, Regina, Moose Jaw or here, and then have those cars attached to the first freight to continue the journey to destination. The writer believes this would prove as profitable to the railway companies as the present arrangements by which they for-ward settlers' effects and other merchandise. The writer is a firm be-iever in compelling the railroads to give the people the accommodation to which they are entitled. The people have helped our railroads handsomely with guarantees of bonds, bonuses fair play hurts no person.

A third reason why the Ontario

producer is not meeting the market demands to best advantage is the same as explains the loss of millions of dollars to the farmers of the West on their grain, no arrangements having been made to hold the fruit of keeping varieties. As it is there is a slaughter market as soon as the fruit is picked. The farmer buffls large buildings to house his stock so that he may not be forced to sell all off in the fall of the year, and then buy again in the spring. He does not in the fall of the spring. He does not again in the spring. He does not again in the provision because he want the trouble of feeding the stock all winter, but because he knows if that winter, out because he gnows if that were the rule he would have to sell when all his neighbors were selling; therefore he would get a low price and when he came to buy in the spring he would have to buy in competition with many of his neighbors and therefore pay a high price. So he invests his money in material, buys fittings, etc., and when the buildings are completed he disposes of what he considers he can do with-out at a price that he dictates to the purchaser, whether that customer is consumer or a dealer.
STORAGE FOR PRUIT

If Ontario fruit growers would use the same business tact with regard to (Continued from page 32.)

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SI. XXXII.

FOR WEEK ENDING MARCH 6, 1913.

No. 11

HOW TO MAKE NEGLECTED ORCHARDS PRODUCE 85 PER CENT. OF No. 1 FRUIT W. F. Kidd, Toronto, Ont.

Why do we Produce such a Large Proportion of Inferior Fruit? The Pruning Methods that were used in Restoring many Neglected Orchards to Profitable Productiveness Described by the Man who Did It.

RE we producing even creditably good fruit in Ontario? From what I have been told by the managers of apple associations and judging from the orchards I have seen, I believe that the average apple pack of Ontario will not grade better than 50 per cent. No. 1. Some good authorities say that 40 per cent. is nearer the mark. This enormous per cent. of No. 2 apples is largely due to neglected pruning. And what are the possibilities? Six orchards used for demonstration purposes in Simcoe county by the Ontario Department of Agri-

culture three years ago graded 85 per cent. No.

1. These orchards were sadly neglected, could not be more in need of pruning, and had never been sprayed.

The aim of all apple growers should be to grow the best. Good apples are profitable-I mean apples of high quality. Red apples should be as nearly red all over as it is possible to make them. Apples grown among dense foliage where the sun cannot reach them are usually poor in color and not tempting in appearance. it is often said "Ontario can grow the best apples in the world," but it may be as truthfully said that Ontario is growing a great number of very poor ones. The highest priced apples selling in Toronto are not grown in Canada, but come from the Western States. A small town in Eastern Ontario is also importing apples from the States. A storekeeper of this town said that some of his customers wished something better than that with which Ontario growers were

supplying the home market. ORCHARDS WITH POSSIBILITIES

There are a great many neglected orchards which, if they were properly pruned, sprayed, and cultivated, would produce paying crops. As a matter of fact, the finest Spy apples at the Ontario Horticultural Show in 1911 were grown on old trees carefully reclaimed. The following directions indicate the methods followed in producing 85 per cent. No. 1 fruit in the Georgian Bay District.

First, we removed all dead wood, high limbs were cut back, and cross branches cut out. This pruning induced an abundant growth of suckers upon the large limbs. Those most favorably situated were selected and cut back to form new fruit-bearing wood lower down on the trees and at points where no fruit buds had previously grown. In this way the long

bare limbs were made in time just as fruitful as the top and outside branches. In reclaiming these old orchards in case they were in sod, we plowed in the spring after pruning. We plowed as shallow a sod as could be turned. Where tillage has been neglected the roots feed near to the surface and deep plowing the first year will destroy a great many of these feeders.

And now for the farmer who has an old orchard to be reclaimed. A thorough overhauling of the orchard should be undertaken. All rough bark should be scraped off because it covers many insects that are hard to reach with spray materials. A hoe is a convenient tool with



One of Four Important Factors in Orchard Improvement Work

Spraying, pruning, cultivating and fertiliting—all of these four factors must receive attention if we would derive the greatest profit from our bearing orehards. Mr. Brimmingcomb, Huron Oo, Ottl, may be here seen gerforming the first and most important of these operations with an up-to-date power sprayer. In the article adjoining, Mr. W. F. Kidd deals with the second orehard improvement factor, pruning, and in the following pages the remaining two factors, cultivating and affertiliting, are also deals with. The neglect of any one factor is bound to result in reduced profits.

which to scrape. An ordinary handle vill reach the higher limbs. It is not often necessary to scrape higher than a man can reach with an ordinary hoe, standing on the ground. A hoe with a short handle is convenient for the trunk and lower branches. If the centre of the hoe is filed out to make a circular edge it will do better work and not slip so often. Do not scrape deep enough to expose the live yellow bark.

Pruning now is not done in the way many did it 20 years ago. Low-headed trees are now considered most profitable; they are easier to prune, spray, and pick. But if we have high headed trees we can but make the best of it. Again, some old orchards have the main branches destitute of bearing wood 12 or 15 feet from the ground. After the trees have been pruned, as already described, part of the top branches should be cut off, always cutting back to a lateral. Cutting back the head has a tendency

to force out sprouts on the bare lower branches. This high wood is a dead loss. There are some trees so high that it is next to impossible to spray or pick. There is no profit in growing apples that cannot be sprayed, and apples shaken off are almost without value. Twenty-five feet is a high tree, rather lower is better. There are many tres in Ontario 45 feet high. Such high trees should not be lowered to 25 feet in one season. That would be a terrible shock to the tree, and it might die.

PLAN FIRST-THEN ACT

In pruning, it really takes more time to determine what to cut off than to do the cutting. This suggestion to some may look like a waste of time, but it is not really so Look carefully round a tree and determine where there is a likely place to head back to. About five or six feet in one season would be lowering a tree very fast. The pruner should make up his mind when on the ground where he means to cut to. but after looking at the top from the tree he may find it necessary to cut slightly higher or lower because of the lateral branches not being exexactly as he thought they were when on the ground.

I would first cut back the centre, then the outer branches to laterals corresponding in height to the centre. The centre of the tree should be highest, gradually sloping lower to the outer branches. In every case cut back to a lateral. The following season those trees still high should be lowered more, to the next lateral, several feet lower, and so on, every season or every other year until the tree is th desired height.

DON'T LET TREES CROWD When trees are so closely planted

that the branches are growing into each other, I would cut these trees back all round, leaving at least four feet of space free from branches. That much space or more is necessary for sun and air and to enable free driving with the spray outfit. Cutting back all side branches of large trees has a tendency to make the branches stiffer so there is less danger of fruit being rubbed by swaying branches. The sprouts that will likely come on lower banches after such top pruning

I would leave on where necessary to fill vacant spaces, others would be cut off at once. Next I would cut back those sprouts that are to be left to a length of six inches, leaving the last bud pointing in the direction the branch is desired to grow. Sometimes it is necessary to tie *a sprout and force it to grow where it is needed. These sprouts, if cared for, will bear fruit in three years.

As a rule there has not been nearly sufficient labor put on the outside of the tree. To have fine apples they st have light and room. A safe rule is never to leave a

it can be avoided. Occasionally there is a large branch so low that a team cannot get close enough to plow or cultivate. In such a case I would cut the branch off.

ABOUT PRUNING TOOLS

There is no tool the equal of a fine-tooth, sharp saw for pruning. When the branches can be reached clippers may be speedier, but they do not do such clean work. There is a saw manufactured in the States that is superior to anything yet made in Ontario. This saw has a blade half an inch wide and about 18 inches long, with a strong back about three inches from the blade, so there is little or no friction. Last season some of these saws were in constant use during a long pruning season and never required sharpening. (Spare blades can be had for these saws.) What is generally known as a long-handled pruner may be used where saws cannot reach. These pruners are of various lengths. Eight feet is a convenient length, with one 12 feet long for very high trees. In every case cut as close to the branch as possible. Shoulders or stubs are unsightly, and the wound does not heal so well.

The pruner should be very careful not to bruise or break the bark with rough boots or ladders. Broken bark is a most likely place for spores or black rot canker to start. In some districts there are a great many trees injured with this disease, and if not cut out or treated the tree is likely to die. If the disease has gone completely round the branch, cut it off about 12 inches below the injured part. I burn all black rot canker at once. When only a small portion of the branch is infected it can be treated and brought back to a healthy condition. With a sharp knife cut off all the discolored bark and anything that looks unhealthy; then disinfect with corrosive sublimate at a strength of 1 to 1,000. Corrosive sublimate can be procured from any drug store. Apply the solution with a small stiff brush, rubbing well into the bark. When the wound is dry, paint with two coats of white lead and raw oil paint. This paint is only for protection until bark grows over the wound.

Thorough pruning of large neglected trees is a slow and expensive business. I have seen a first-class pruner being as long as eight hours on one tree. Many districts are spraying thoroughly, but few can be called well pruned.



There are Many Orchards in need of Similar Treatment

rule is never to read a branch of twig that can This month, March, is the one generally adopted by fruit growers as pruning time. rub or touch another Mr. Brown, Simoso 6c, Ont. may be here seen pruning up some trees in an old branch when loaded with orchard. Notice the high heads and generally undesirable shapes of these trees. fruit. It is not advisable And yet orchards in just as bad shape as this one, through thorough pruning, followed by good spraying, have been made to yield profitable crops.

Experience with Commercial Fertilizer J. W. Clark, Brant Co., Ont.

I have been using commercial fertilizer for 15 years and fully appreciate its value. I value it especially for fruit and vegetables. Before one can use commercial fertilizer to best advantage, however, he must thoroughly understand the needs of the plants to which he is applying fertilizer, and he must also have a good knowledge of the deficiency in his own soil. Otherwise, how can he decide what fertilizers are needed?

Experimental experience is the only way in which this knowledge can be gained. From my own experience in orchard work, I have found that mature trees show best results when treated with acid phosphate and muriate of potash, about 200 lbs. to the acre. I prefer finely ground bone as a source of supply for acid phosphate. This bone is not in a very available condition, and it must be applied as early in the spring as possible.

In addition to this, I have been using a cover crop which is plowed down each year and every third year I make an application in the orchard of barnyard manure. Where wood growth is desired nitrate of soda is the desirable fertilizer, but I find that with bearing trees the nitrate tends to delay maturity, and its use will not be advisable on winter varieties, especially where color is essential.

Fertilizers, however, are not all. The fruit grower must ever bear in mind the importance of humus in the soil as a retainer of moisture. Proper pruning, thorough spraying, and cultivation are the other factors in successful fruit

To get the best results from food and labor, the cow must be comfortable, and have light and air. Simply because we know that cows will live in a dirty, dark, ill-smelling place does not prove that they are doing their best there .--P. H. Moore, Victoria, B.C.

Where do we stand in Appple Industry?

P. J. Carey, Dominion Fruit Inspector. After a season such as the past year has been many people are asking the question, where do we stand in the apple business? Have we overdone the industry? Is it advisable to plant out more apple tres? To these questions I make answer that it is advisable to plant still more trees, but these must be only of desirable varieties. We must cut out the undesirables. We must give the people what they are asking for -the varieties they want.

In the West, and in our larger cities even here in the East, we are up against competition fre American apples such as the Roan Beaut,. which are even now retailing in Teronto at five cents apiece. They are not up to much in quality, but they have a most attractive ap They are clean apples, perfectly pearance. formed and attractively packed.

The bad state of the markets this past year put a great many irresponsible buyers out of business. The money from abroad usually adranced to them was withdrawn. Only the reputable buyers and the cooperative associations were left, and thus there were not enough buyers to go around, and many apples of necessity went begging for buyers, realized a very low price, and in some cases even rotted in the

The key to the whole situation is to produce good fruit, properly care for it, properly pack it and market it where the people want it. Our Ontario and Eastern apples cared for and packed as they should be have Western apples beat to a frazzle. We have got to raise better apples and larger apples having abundance of high color. There is a good thing in apples yetin fact, they are the best thing yet on the



Not Much Chance for Insects Here

"Spray till every last twig is dripping." These words, from one of our best fruit growers, describe spraying as it should be. Notice this tree aprayed with lime wash. Everything is white.

farm-but it all depends on how you treat your orchards. "Eternal vigilance in orcharding is the price of success."

It was generally agreed by sheep men at the Winter Fair at Guelph that belled sheep were less liable to attack from dogs than sheep with out bells.

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The Management of a Farmer's Orchard R. R. Sloan, Huron Co., Ont.

When the editor of Farm and Dairy first ask ed me to write on orchard management, I was rather shy of the subject. So much has been written about the fruit growing industry the past few years that one would naturally think that anyone with an orchard of any size would surely learn to see the advantages of good sound orin the soil from the previous winter's snow and spring rains for the use of the trees during the summer. We continue to cultivate every 10 days or two weeks till the end of June, or the middle of July if the season is very dry. By this time the trees will have enough wood growth, and this new wood must be ripened before winter comes on. The buds require considerable energy while developing in July and August, and



A Style of Sprayer ever Becoming More Popular with Large Fruit Growers

Spray solution, to do its work effectively, must be applied at just the right stage of growth. In some cases there are only four days to a week in which to e over a large orchard. Here it is that the power sprayer is almost a necessity. It will do the work of several harrel pumps. The one here illustrated is at work in a Huron Co., Ont., orchard.

chard work as practised by the up-to-date grower. But such is not the case. There are still many good orchards unmolested, and allowed to remain in somewhat dormant condition. And as long as this condition exists I feel that I have an excuse for writing on what should be, but is not, a time-worn subject.

Before we can intelligently manage the orchard to obtain the best results, we must learn the why and wherefore of the different problems that confront us in our endeavor to grow fine, clean, well shaped specimens of fruit. The best way to impart this information, I believe, is to tell just how we go about it in our own orchard.

We begin to prune our orchards about the first of March; that is, we do not expect to have time to do that particular work in the month of June. The latter month, we believe, is the better period of the year for such work, as we get a better set of fruit buds by pruning in the summer. The amateur grower has much to learn as to the habit of growth of the different varieties he may be growing. We find the Spy the heaviest wood grower; hence we must make an extra endeavor to keep Spy trees as open at the top as we desire to have other varieties. This openness of the top admits plenty of air and sunshine to properly develop and color the growing fruit. Also the fruit buds, which determine the crop for the coming year, which must have plenty of sunshine.

As to cultivation: We start the plow, or whatever implement we may use, according to the condition of our land, as early in the spring as possible so as to retain all the moisture that is this they do not get if wood growth is allowed to continue.

Young orchards up to eight or 10 years of age may be successfully intercropped with hoed crops such as roots, beans, and potatoes. Clover may also be grown as a hay crop for one year and then plowed down the following year. We have practised both systems of cropping.

We follow the cultivation with a cover crop of some kind, preferably clover or vetches. These crops usually make a good growth before winter comes on. This vegetation protects the roots by holding the snow and the following spring we have a crop to plow down as a green manure. This practice helps wonderfully in keeping up the fertility of our soil.

(Concluded on page 33)

Success with Pears John Beemer, Brant Co., Ont.

My one acre orchard of Kieffer pears is the most profitable acre on my farm. This orchard was set 14 years ago, and for the past eight or nine years has yielded an average income of \$200 for the area.

Pears are particularly subject to pear blight or canker on account of the soft spongy character of the bark. I have found that they are less subject to this disease when the pear orchard is kept in sod. Good pruning and spraying are, of course, as esential with pears as with apples. Kieffer, to give best results, must be pruned. cultivated, and fertilized. It will not do well in sod. Dempsey and Bartlett also must be cultivated and thoroughly sprayed.

A Living from an Acre

"Ten acres and a home" has long been the dream of many landless city men who long to own a home of their own on land of their own. F. W. Krouse, of Guelph, Ont., once a laboring man working on the college farm at Guelph. gave up his position, bought one acre of land and started in to make the home that so many other landless men desire. We will give his story in his own words as he told it at the last annual meeting of the Ontario Experimental Union at Guelph.

"The first year that we lived on our one acre farm we made \$425 enough to keep my wife and myself. Our ideas then enlarged and we bought one and one-half acres just at the back of the one acre we already had. Next year from that two and one-half acres we sold \$1,600 worth of produce, and the third year \$2,700 worth. Our ideas then suffered from further enlargement and we bought seven and one-half acres more of much better land, bringing our small estate up to 10 acres.

"We have not done as well proportionately on the 10 acres as we did on the two and onehalf acres. We consider ourselves land poor, and are willing to sell some of the farm. We cannot work the 10 acres as thoroughly as we did the smaller area without much hired help.

"We put bees first in our list of moneymakers. From 100 colonies this past season we extracted 11,000 lbs. of light honey and 2,000 lbs. of dark honey and had an increase of 80 colonies. We sell our honey on the Guelph market. The light alone brought us \$1,650, the dark honey \$78, and the increase in colonies we value at \$250. From a one-half acre bed of asparagus we had an income of \$200. We have 400 bags of potatoes still on hand, and from poultry we derived \$250. The total value of all this produce we would estimate at \$3,000 and nearly all of it came off the original two and one-half acres

"We do most of the work ourselves. I work from daylight to dark in the busy season, but I thoroughly enjoy the work and it never gets



Suitable for the Small Grower

The outfit here illustrated, mounted on a truck, will meet the requirements of the farmer with a small orchard of one to four acres. Such an outfit is also handy in spraying potatoes and whitewashing stables and outbuildings.

laborious. When first we started, strawberries were our mainstay, but we have gone out of this fruit, as it involves too much labor. In the winter we take matters easy and enjoy life."

I have visited many hundreds of orchards, old and young, and do not recall ever having seen a dozen dead or dying trees that were in this condition as the result of old age. Accidents, neglect, mistakes in pruning and injuries of various sorts, in nearly all cases preventable, have been the cause. - A. McNeil, Chief, Fruit Division, Ottawa.

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ding is at the p were ep with Any man who grew the right kind of fruit and packed it right did not need to be, nor is he, ashamed of the apple business, even under the market conditions that prevailed last sea-

son. There are a few things essential to the success of apple growing. We must grow quality first, it is quality that is wanted. We must pack them properly and use reasonable horse sense and learn how to sell them. When we learn to market our apples properly one-half or more of the difficulty has been overcome.

To grow good apples there are four things we have to do. First of all, we have to spray. We have to spray as it ought to be done, using the right material at the right time and the work must be done thoroughly. When we have over five or six acres of apples we must have a power pump and spray at a pressure of from 200 to 225 lbs.

Second: Pruning is absolutely necessary. It is not true that the more limbs we have, the more apples. This is a big mistake. Many men are afraid to cut out enough or to cut off the tops of the trees. Always start from the outside to prune a tree and work in. Don't go to the inside and work out. We want to see day.

light down each row of apple trees, even if we have to cut off 10 feet at the ends of the limbs. Head the trees back and thin them from the outside.

Third: Cultivation is a very important thing. We can't start too early in the spring, nor keep up a too rapid cultivation up to the end of June.

Fourth: Fertilize. Do the preceding three things first, then attend to the fertilizing. Barnyard manure is good, but we will have to resort to commercial fertilizers as well.

Fifth: Thin the apples. This practice is necessary in the great majority of years. It is generally possible to take off from 2,000 to 3,000 apples from a tree and then not get enough off. Some varieties particularly, have got to be thinned.

Follow the foregoing direction and we most surely will grow the very best.

Why the Farmer Fails with Apples

J. A. Wilk, Jordan Cooperative Company,
Orcharding in the Niagara Dist.ict as regards
the setting of apples is something of the past.
While the fruit grower who has an orchard takes
care of it or takes it out (generally the later)
the farmer lets it take care of itself. I am glad
to say there has been an awakening among the
farmers lately and that they, profiting by the
example of the fruit-growers, have procured
spraying outfies and cultivate their orchards occasionally. This will result in a higher percentage of No. 1 fruit and more money for the
grower. There is no reason why fruit growing
should not be carried on to a limited extent as
a side line to general farming.

The cause of so many failures to make a profit on orcharda is sufficiently apparent to any person, who, while driving through the country, looks about himself. No farmer would expect to grow a crop of corn by simply planting it and yet this is precisely what the farmer-fruit-grower does with his orchard and expects acrop. Orchards are usually allowed to go to sod

which is moved till it no longer pays, then when the sap-producing roots of the trees in their search for moisture and plant food are near the top of the soil it is resolved to "plow up the orchard," which they might just as well do as far as the enct years' profit is concerned.



A Garden in the Great Clay Belt of Ontario

The garden of Mr. Lorne McDougall, Nipiasing District, Ont., is a fine example of what settlers are producing on the soils of Northern Ontario. The peas in the background are seren feet high. The seed was sown on June 3rd and the photo was taken on Aug. 12th. They had a small application of Muriate of Potash, followed with good cultivation.

It is a matter of regret to me to see orchards which with a part of the tillage and fertilization necessary for the successful production of ordinary crops and which are capable of producing \$150 to \$200 an ere go to grass and destruction. If these farmers would prune and cultivate for three successive years they would let some other farm work "go" and attend to their fruit.

With the rapid expansion of our Northwest



Ideal in Every Respect

This orchard is located in the Wenatchee Valley of Oregon, where orchard lands are valued at \$2,500 en acra. Notice how thoroughly well cultivated is the soil, how thrifty looking are the low headed trees. And when the crop is harvested the fruit will be packed in boxes and sold at double the price of most Canadian fruits.

trade for summer, fall and winter varieties of apples and the Nisgara District owing to the growing of more tender fruits practically out of it our northern friend should bestir themselves not only to take care of orchards already planted but to plant more extensively. A Western Advantage

W. J. L. Hamilton, Nanaimo Dist., B. C.

I have read much about the relative merits of Ontaric and British Columbia as regards fruit growing, but not knowing Ontario, I will keep out of the discussion except to point out one

inestimable advantage we possess in British Columbia in having a compulsory spraying law.

If only one orchard in a district is unsprayed it acts as a pest preserve, from which, as a centre, all the fruit growers' enemies are disseminated. Moths and beetles have wings, spores of the fungi can be carried long distances by the wind and by the feet of the birds and insects, and this is true also of the scale insects, both San Jose and Oyster-shell. It has been calculated that one San Jose scale is capable of producing at least three million descendants in one season. This alone should suggest the amount of damage done a district by one neglected orchard or even tree.

THE BAMMER ONE MAY DO Take the codding moth: If all epray, the first brood should be reduced by about 95 per cent, and two more sprayings should check the next brood, another death blow being given by careful fruit thinning and banding the trees. But one infected and neglected orehard just doubles the

cost of fighting this pest, since double the number of sprayings at least will be called for. Not only that; much more arsenic will be applied to the tree, which, many authorities believe, will ultimately injure it.

Need I say more to show how manifestly unfair it is to all progressive orchardists for one "back number" to work such widespread injury. Moreover, this negligent orchardist will sell his inferior fruit for what he can get for it, thereby spoiling the market for all and lowering the high standard of fruit, which it should be the object of each district to maintain.

By all means enforce sanitation in your orchards as you do in your towns, or you will be heavily handicapped by those who do.

A Story of Great Results

"Do you wish to get a good article in few words?" asked Mr. Clark of the Niagara Brand Spray Co., of an editor of Farm and Dairy, who, with pencil in hand, stood near their booth at the last Ontario Horticultural Exhibitions.

"Certainly, go shead," we replied.

"Well, here goes. Paul Campbell, Merton, Ont., picked 65 boxes of No. 1 Snows, one box of No. 2 Snows and one box of oulls off of one tree. Of 1,000 barrels of apples from his orchard, 97 per cent. of them were No. 1. He has sprayed thoroughly with lime-sulphur for the last five years. So good is his fruit that he readily dispose of all of it directly to his customers by private order."

"Thank you."

I have often been asked why we have larger yields of grain on our Experimental plots that are common throughout the province. Our soil is not extra good. We do not fertilize heavily. The explanation lies in the careful selection of best varieties, good seed, the best of cultivation and in underdrainage.—Prof. C. A. Zavitz, O.A.C., Guelph.

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Our Methods of Cherry Culture

Wm. B. Leavens, Prince Edward Oo., Ont.
We have plenty of land adapted to the growing
of cherries; that is well drained clay limestone.
We have also a partiality for the culture of rruit.
I first decided to specialize with the cherry and

Car.

we now have in the "Leavens Orchards," in which my son is also interested, 22 acres planted to this fruit.

to this fruit.

The trees are placed about 20 feet apart,

Wm. 8. Leavens and number from 100 to 110 trees an acre. We prune the tops to three or four branches so that each may have room to expand without much interference with the growth of the others. We use two-year-old trees for planting, though, I believe, one-year-olds would give equally good results.

Owing to climatic conditions in Prince Edward county, in com-

mon with other counties on the north shore, we do not attempt growing some of the more tender varieties of sweet cherries in a commercial way. We have a dozen varieties, but for market purposes, they have simmered down to three, the Early Richmond, Montmorency, and English Morella. The e varieties meet the requirements of 95 per cent. of our customers. The Early Richmond when grown upon proper soil and allowed to remain on the tree until really ripe is an excellent cherry. Unfortunately it is often shipped when just turning a light red color and as full of acid as a chemist's bottle. If it had been left a week or ten days longer on the tree it would have been larger, a darker red, richer and riper, and the buyer would have wanted more, instead of regretting his purchase.



A Well Balanced Cherry Tree
This seven-year-old cherry tree, about 10 feet high, is
considered by Mr. J. W. Smith. Wentworth Co., Ont.
to be about the right shape.

The Montmorency is the standard cherry; no better all-round cherry is to be found. We usually plant two trees of this variety to one of all other varieties. They have size and color, stand shipping well, and ripen at the time they are wanted by the housewife. English Morellas are heart-shaped, nearly black, growing on a drooping, dwarf stree. They are very late and in favorable seasons are ** good preserving cherry. The demand for English Morello is limited but they extend the season.

The cultivation of the cherry is similar to that of a well-cared for apple orchard. The diseases of the cherry require the most careful attention. Black Knot must be cut out and buried as soon as it appears; leaf blight is controlled largely by spraying, though lime-sulphur failed to answer the purpose last year and we may have to go back to Bordeaux for better results. Insecticides also have to be used when required.



Strawberries on a Commercial Scale Involve Labor in Wholesale Quantities

The commercial strawberry plantation has proved itself a profitable proposition with many. But before going into strawberries one needs to be sure that there will be an abundance of cheap labor artialable at pleking time, such as Mr. R. Guthrie, Lambton Co., Ont., whose strawberry patch is here illustrated, has secured.

When noic ing time comes, the aim is, to get careful intelligent people to assist who are interested in getting a beautiful fruit put up in the most attractive form and thus far we have not been disappointed. At a later date we will describe in detail our methods of packing and marketing the product of our 22-acre cherry orehard.

How I Grow Strawberries

J. R. Semple, Colchester Co., N. S. In selecting a piece of ground for strawberry

culture I prefer soil that is naturally or artifoially well drained and where water is not likely to remain on the surface in winter, as ice over the plants prove fatal. If the land hes grown a crop of roots, and was well manured the previous year so much the better. A second application of coarse manure plowed in in the fall will greatly benefit the land and put it in condition for the setting of the plants the following spring.

After the surface is well pulverized to a sufficient depth with the disc harrow, finishing with the roller or drag, allowing time between the workings for the weed seeds to germinate, the rows are measured three and one-half or four feet apart using stakes the length required set set such and and centre of the rows. Then we run off lightly with the plow. We place the plants two feet and rin the furrow opened with the plow. The planting is done as quickly as possible, so as to get the benefit of the moisture in the freshy turned sou;

After planting we keep the ground well stirred to prevent crusting, and also to upset the little weeds as they germinate. For this work we use the one-horse scuffler, garden rake, and hoe, and enternal vigilance.

As to varieties we have had good success with Brandywine, Wm. Belt, Parsons Beauty, Sample and Clyde, in the order named.

Buy a Spray Pump.—Even in mo more than a dozen trees it will a syr a spray pump. The barrel spray hat the average small fruit grower will be cheaper to buy the pump and the most it on a good molasses or vinegar barrel, than to no good molasses or vinegar barrel, than the vinegar barrel with the color of the vinegar barrel with the vineg

The Question of Thinning

R. M. Winslow, Prov. Horticulturiet for B. C.
A tree may set more fruit than it can possibly
bring to perfection, as the fruit-grower understands perfection. Nature cares nothing for the
fruit, except as an aid to produce seed; the

orehardist cares nothing for seeds, except as they are necessary to the production of fruit. We wish each tree to carry all the fruit it can bring to commercial perfection, and no more. Hence we thin out the surplus setting.

As soon as the crop can be determined and the supply of label to permits, thinning should be commented. Start with those varieties which are most advanced. Generally, apples, pears and peaches are thinned when about the size of a hickory-nut, and the thinning should be completed before they are more than double that size. On the various plume the work should be commenced as soon as possible after the dropping, familiarly known as "the June drop," is ower.

Apricots, cherries and crabapples are not usually thinned by hand because
the crop which they are to bear is a reasonably
certain quantity, and can be controlled to a
greater extent than the larger fruits by proper
prunning. The Italian prune and the peach
plum are not usually thinned, because normally
the set of fruit of these varieties is not great
enough to warrant the expenditure.

HOW TO THIN

To set rules for thinning is even more difficult than to set rules for pruning. The fruit-grower must determine for hixelf just how much crop the tree will be able to carry. Much depends on the variety, the age of the tree, its vitality, the soil, cultivation, climate and district. Under equal condition the Winesap may be thinned to, say, five inches, where the Jonathan would be say, five inches, where the Jonathan would be



After the Thinning

the photograph from which this illustration was taken was empred by Prof. J. W. Crow, O. A. C. Guelph, in The apple, seen of trehard two years or more ago. The apple, seen of the contract of the prof. The apple, seen in the prof. The apple, seen in the prof. The pro

thinned to six or seven and the Northern Spy to eight. In climates such as that of Vancouver Island, where no irrigation is available, and the rainfall averages about half an inch per month during the summer season, or one-fifth that of the average Ontario district, all varieties are thinned to a greater distance than in districts of greater runfall or where irrigation is available. In this district it is advisable to thin many crops, the whole of which could be carried to advantage under other conditions. Unhealthy or diseased trees should not be expected to grow as

(Concluded on page 31.)

Own your car-don't let it own you. A new Mr. Dooley rises to remark that there are only two kinds of cars-"the Fords and the can't affords," You'll want a Ford when the season is on. Then buy it to-day.

There are more than 220,000 Fords on the world's highways-the best possible testimony to their unexcelled worth. Prices-runabout \$675-touring car \$750 -town car \$1000-with all equipment. f.o.b. Walkerville, Ont. Get particulars from Ford Motor Company of Canada, Limited, Walkerville, Ontario, Canada,



Flower and Vegetable Seeds

Selecting good seed has a great deal to do with the ultimate success of growing flowers or vegetables. The love of flowers

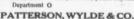
wegetables. In love of Rowers
should inspire those who cultivate them to select the choicest
and most reliable seeds, Gardening for profit or pastime
with a view to getting the best results. The size, quantity
of flowers and vestables are things that are governed largely by the character, strength and pedigree of the seeds

CARTER'S TESTED SEEDS

These famous seeds are known, sown and grown the world over. These lamous seeds are known, sown and grown the world over, Wherever used they have made extraordinary records for productiveness. Your flowers and your garden vegetables for next season will be the administon of all who see them and a source of pride and satisfaction to yourself if you sow Carter's lested Seeds this Spring, Order from the catalogue, White for a copy at once, so you can order early.

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Kennangangengengengengeng The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interrested are invited to ask questions, or a scal items of interest. All quee tions will receive prompt attention.

Experience Recommends It

Robt, Jariott, Middlesex Co., Ont. I have used a cement block silo for three years. I feed ensilage to cat-tle, horses and swine. I consider that good ensilage is the best of feed available for farm stock.

available for farm stock.

I feed my cattle about all the ensilage they will eat twice daily. I feed straw or hay at noon in place of silage. To my horses I feed silage silage. To once a day.

Corn should not be cut too green for the silo. I leave my corn until it is well glazed. I would advise any farmer to build a silo ar I have had good results with mine.

Alfalfa for Dairy Cattle J. H. Grisdale, Director Experimental Farms, Ottawa.

It is as a feed for dairy cattle that we most value the alfalfa crop. Al-falfa is unsurpassable. (1) As a soil-ing crop; (2) as a hay crop; (3) as a substitute for meal. We can get a substitute for mean. We can get two to three times as much value for soiling from an acre of alfalía as from an acre of any other crop. One of our neighbors who keeps a large number of dairy cattle, says he would

number of dairy cattle, says he would rather do away with any other crop he grows than alfaifa.

We have fed it as a substitute for meal. In some carefully conducted tests we fed alfaifa against bran, pound for pound for two months, changing the two lots of cows, first to one feed and then to the other.

We found that the alfaifa feed were We found that the alfalfa fed cows gave just as much milk and kept in just as good condition as when being fed bran. This gives an idea of the fed bran. This value of alfalfa.

When we can harvest two and one half to five tons of alfalfa and some-times six tons to the acre, when we consider that alfalfa is one of the cheapest crops to produce and then compare it with bran at \$20 or more a ton, we have an additional appreciation of the value of this crop. I believe that every farmer should conduct experiments similar to the one I have described on his own farm .-

Bees in the Orchard

Summary of an address.

The presence or absence of bees in an orchard is often of sufficient iman orenard is often or sufficient importance to determine whether the fruit-crop shall be large or small. Since practically all fruit-blossoms are fructified by the passing of polen from one flower to another, and since the wind too frequently fails perfectly the preferred the different profession of the orenard to the perfectly to perform the office of a pollen-bearer, great numbers of blos-soms must remain unfertilized but for the friendly offices of the bees; which seldom skip a bloom as they pass from one to another in search of nectar. The pollen gathers on their wings and bodies to such an extent wings and bodies to such an extent as often to change their color, and it is dropped on the waiting pistils of blossoms before unfertilized; thus ensuring the "setting" of the fruit. A few hives of bees in the orchard not only make the services of the lit-

not only make the services of the lit-tele creatures in this way far more reliable than when dependence is placed upon the visits of wanderers from distant colonies. If clover and other blooms are near to supply them with food after the fruit-blossoms have performed their office, the lives may afford a profitable crop of honey.

DOUGLAS GARDENS

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SPECIAL INTRODUCTORY OFFERS TO
READERS OF FARM AND DAIRY.
a.—Aquilegia (Columbine). F plants in 2
b—Astern Hardy (Michaelmane daisles), 10
plants in 3 sorts.
—Astible (Spirea), 5 plants in 4 sorts
d.—Shasta Daisles, 2 such of 3 sorts named
a.—Delphinium (Larkspur), 5 plants in 3
g—Kslpboda, Hitser (Torot Lily), 9 plants
h.—Phox, "Mass Lingard", 5 plants
h.—Phox, "Mass Lingard", 5 plants
h.—Antirrhum (Sangdragon), 35 plant

fine.
Any one or more of above items safely sacked and sent carriage prepaid, for \$1 or cach item.
All of the above are fully described in our Spring Planting List, sent free on

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Improved prize winning strains.
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MAIL CONTRACT

SEALED TENDERS, addressed to the Postmaster General, will be received at Ortawa until Noon, on Priday, the 4th April, 1913, for the conveyance of His Majestry Malls, on a proposed Contract Majestry Malls, on a proposed Contract Commence at the pleasure of the Postmaster General.

Grant Mail Route No. 5, from Peterboro, Ontario, to commence at the pleasure of the Postmaster General.

To the Postmaster General Commence of the Postmaster General Contract may be seen and blank forms of Tender may be obtained at the Post Use of Peterboro and at the office of the Section Commence of Peterboro and at the Office of the Section Commence of Peterboro and at the Office of the Section Commence of Peterboro and At the Office of the Section Commence of Peterboro and At the Office of the Section Commence of Peterboro and At the Office of the Section Commence of Peterboro and At the Office of the Section Commence at the Post Use of Peterboro and At the Office of the Section Commence at the Post Use of Peterboro and At the Office of the Section Commence at the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use of Peterboro Commence at the Office of the Post Use o

H. MERRICE Post Office Inspector's Office 19th February, 1913.

Farm Help

Farm Laborers will again be brought out this year by our Immigra-

Also Boys and Lomestic Servants We are making a special effort this year in country districts and will have the best class of immigrants. We seek desirable places for these. Apply early for application form t

The Salvation Army Immigration Dept. Albert Street, . TORONTO, Oat.



SYNOPSIS OF DOMINION LAND
AND PERSON REGULATIONS hand of a family or any maje aver 13 years old, may homested a quarter section of available Dominion land in Massicoba. Section of the section of available Dominion land in Massicoba. Section of the section of available Dominion land in Massicoba. Section of the section of available Dominion land in Massicoba. Section of the section of available Dominion lands Agency or Sub Agency for the disamont appear of the section land and the Dominion Lands Agency or ocrtain conditions by father, mother, or estimated the section of the land in each of three years. A homesteader may live within a section of the land in each of three years. A homesteader between the section of the land in each of three years, and the section of the land in each of three years. A homestead when the section along the section of the land in each of three years. A homestead between the section of the land in each of three years and the section of the land in each of three years. A homestead in the land in each of three years are section of the land in each of three years. A homestead in the land in each of three years are proported by the land in each of three years. A homestead in the land in each of three years are proported by the land in each of three years. A homestead in the land in each of three years are proported by the land in the land in

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SPRAMOTORS ARE THE WORLD'S STANDARD



The tank is the coming vessel for spraying. Saves greatly in time. A 100-gallon tank saves 20% in day's work over barrel. Spramoter as shown above is an ideal arrangement.

for all purposes yet invented Single or in clusters. No springs, nuts. screws, nor packing glands in this nozzle.

It can be disgorged by forward thrust. Warranted to apply oil and water, paint, or to produce a better spray than is possible with any vermorel nozzle.

Prices range from \$6.00 to \$75.00. Price: 100-gallon tank complete, \$14.00. Spramotor Nozzle

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Supplied with hardened steel interchangeable discs, without extra charge.

Price, single and clusters, from 75c to \$5.00. I N the famous Spraying Contest held at Grimsby under the auspices of the Board of Control of the Fruit Experimental Stations of Canada, and by approval of the Dept. of Agriculture, in which there were eleven contestants, the Spramotor was awarded first place. The judges were Prof. H. L. Hutt, of the O.A.C., and Mr. Murray Petitt, President O.F.G.A.

Sprainotors are used the World over. They are acknowledged to be the standard. They are made by the Spramotor Co.—the only Canadian firm in their line who have an American branch manufacturing in the United States, where they have been established for 12 years.

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A Gold Mine On Your Farm

This book also contains much valuable information on the sprays to use, how to prepare them, when to apply them for each of the various kinds of insects, spots and scabs which affect your fruits. This book will be sent you free.

Write us to-night for your copy of "A Gold Mine on Your Farm." It will show you the very style of Spramotor you will want for your work—a style for every conceivable use where a spray is required—small ones at a price as \$12.00 up to big power machines run by horses and gasoline engines. Address me personally for this book.

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Duplex Spramotor No. 40, here illustrated, because the property of the

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RENOVATES OLD WORN OUT PASTURES WITHOUT RE-SEEDING

HERE are thousands of farmers in Ontario whose pastures have been worn out by the continued grazing of dairy stock. Such lands have been drained of fertility and now grow only poor, worthless vegetation. Clover has entirely disappeared. This need not continue. A dressing of Basic Sing applied broad cast at the rate of L80 lie, per acre will bring such pastures back into good heart and depublic or troble their capacity for stock carrying. The effect of such an application about he apparatus for four or five years.

Bado Sing is being used in thousands of tons in the Maritime Provinces and Quebec, and the consumption in Europe amounts to over two million tons per annum. It is therefore no untried fertilizer. Every farmer from the control of th

Until our selling arrangements in Ontario are completed, you can be spulled direct from the factory at \$20.00 per ton, freight prepaid to your nearest station—cash with order.

Make this experiment and you will feel grateful to us for bringing the merits of Basic Siag under your notice. An interesting pamphlet, giving particulars of the results obtained by leading agriculturists from the use of Basic Siag will be forwarded by post on application

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Hatches good, strong, healthy chicks at a very little cost. Made of all metal: is fire proof; easily run.

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STRONGEST and best farm gate made. 30,000 sold in 1912. Can't sag, bend or break. Can be raised as shown. Good for Winter and Summer. Send for The CANADIAN GATE CO. Ltd.

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It Hatches



Sturdier Chicks and More of Them

The Hamilton requires the least il and attention because absolutely o heat is wasted. The walls are no heat is wasted. The walls are constructed of five thicknesses of non-conducting material. One en-thusiastic owner writes that his Hamilton hatched 83 chicks out of 90 fertile eggs, and he only used a gallon and a half of oil. The sys-tem of ventilation is perfect. Presh air and moisture are supplied equal-ly to all parts of the Incubator, as well as even temperature—that is why the chickens hatched are all equally sturdy and big.

Send for the Hamilton Incubator Booklet study it carefully learn how to raise chickens properly—make big profits. First, 81 in this coupon and mail 41 at once.

The Hamilton Incubator Co. 47% Shaw Street

HAMILTON, ONT.

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Name.			*******		
Addres	e				

POULTRY YARD

Points on Turkey Culture

For 27 years, Mr. W. J. Bell, of Angus, Ont., has been raising tur-keys. Many consider Mr. Bell the successful turkey raiser Ontario. He is the only man we know of who has bought a farm and paid for it out of turkeys. At the recent Guelph Winter Fair, Mr. Bell was asked to lecture on his turkey experiences. Following are some of the practical points made by Mr. Bell in his address

"Turkeys are not plentiful enough. Too many of them have to live on grass hoppers.

Never use late hatched immature sickly birds for breeding purposes. "For breeding stock use females weighing 14 to 15 lbs. and the best male you can get anywhere. "I would not care to undertake to raise turkeys on the same ground

year after year, with an allowance of less than an acre a bird. I would prefer 100 acres for 50 young.

"Hatch turkeys with turkeys and not by hens.

"In winter I give a moderate fe "In winter I give a moderate feed-ing of oats in the morning and a full feed of wheat at night. They have apples for green feed, a bank of gravel for grit and pure water at edi times. I would especially emphasize the latter point. Many turkeys die form driviting fifthy water in the from drinking filthy water in the barnvard

barnyard.

"In spring I take wheat from the females as on it they get too fat. Let them range freely and do not compel them to roost inside in the summer.

"I do not try to raise two broods in a year as the second brood has not the constitution to prevent disease. I plan to hatch the last of May or the first of June.

"Prepare the nest boxes early in the spring, three feet deep, two feet high and two feet wide. For nesting material I use wheat chaff without beards.

"I collect the eggs wanted for hatching daily, put them in bran at a moderate temperature and turn three times a week.

"I make the nest boxes flat, thus

avoiding the breaking of eggs.
"The turkey is dusted with insect powder and allowed to sit two days before a setting of 15 eggs is placed under her

"During hatching the birds are cenfined in a covered yard. If they cannot see the top of the fence they will not try to fly over. They are at to come off the eggs whenever they like

"During hatching grass is the only food I give the birds with a dust bath

and lots of pure water.
"Directly before hatching on the
25th day, I dust the birds with insect powder, remove the broken eggs, wash the dirty ones and thus give the young a clean start.

"The young birds are kept in a rough cocp until four weeks old. The coop is moved to a fresh place every day. I keep them away from the day. I ke other fowl.

The feed of the pullets the first day is stale bread cooked in skim milk day is stale bread cooked in skim milk and fed five times a day. The sec-ond day I add a little shorts; the third day I keep out the bread and give culy shorts and milk. I cut give only shorts and milk. I cut dandelicn leaves and onion tops for them for four weeks. They have water and milk to drink. Through the summer they get fall wheat at night and shorts in the morning until cold weather; then oats are substituted. I give no stimulating drugs such

"Diseases such as black head and

Planet Jr 12-tooth FREE An is S L ALLEN & CO

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The Lightning Evaporator is not only the fastest one made in the world, but it holds more prises, medals and diplomas for quality of syrup it makes than all the other makes put together. Write for catalogue, it is free and gives lots of information. SMALL BROS .. . DUNHAM, QUE

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small fowl in and strong enough to keep large ani-mals out. Securely locked together at each intersection together at each intersect of the wires. It's many times hear and stronger than poultry netting, being well galvanized, will last my years longer. Top and bottom w are extra heavy. No top and bottom consideration of the property of the pr

It's close enough to keep

Here's How Strong It is Read this Letter

When this Letter are Tiest in writing a testimonial as to the recepts of PERILEYS Janoir Chicken Funcing, inc is four fast high. It turned two horses acted in in four fast high. It turned two horses acted produced to the product and the sticking ideal products are the same in. The receit was that they both turned a new things of the product and the

Sorrey Costes, B. C.

Think of it.— a positive feroe strong mough to withstand the combined weight of two big borses. And that without a top a bottom board either. If you are interested in such fencing, write us. Ask for our iterature. We also manufacture farm fence and ornamental gates.

gents neurosciptor. Live agents was ted in such fencing with the company of the cost of the cost

The Banwell-Hoxie Wire Fence Co., Ltd., Winstpog, Man. Hamilton, Out.

rch 6, 1913.

MAKERS

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DUNHAM, QUE RILLING ACHINES

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Together enough to keep keep large ani-Securely locked ach intersection top and be KRLESS Po-and heavy, mber of posts eal fence

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ate one bird and if the nead remains swelled for two days kill it.

"If I were sure that I had black head in my flock, I would quit turkey raising for two or three years.

"The best indication of the turkeys health is in the droppings."

Poultry Possibilites of P.E.I.

T. A. Bensan, Dominion Poultry

T. A. Benzon, Dominion Poultry Representatives for P. E. I.
It is not too much to say that in no province of the Dominion is the immediate future of the poultry industry brighter or more assured than in A prince EdWard Island. The conditions of soil and climate may be described as almost ideal, and what is sects and larvae of insects found in perhaps even greater importance, the ground. Especially will they do the farmers, a thrifty highly intel-this if the ground is cultivated—as it

spotted liver are not very frequent. If I see a bird's head swelling I iso-late the bird and if the head remains awelled for two days kill it.

"If I were sure that I had black head in my flock, I would quit turn."

I were sure that I had black head in my flock, I would quit turn. Prospects are enhanced by asland. Prospects are enhanced by assured better transportation. Watch the industry in Prince Edward Island as an example to the poultry industry of the other provinces of Canada.

Chicks in Orchard



Two Dairy Farm Side Lines, and Both Worth While

"Do not put all your eggs one basket," says the old proverb; and it's wisdom holds good when applied to in one has a rule the most profitable farms are those on which one or two lines are making side lines. At the work of the work of

troduce up-to-date methods of housing, feeding and general care of poutry of all classes, and these efforts are meeting with due appreciation. Good meetings are the order of the day, more particularly in the districts in which Farmers' Institutes are organized. These institutes are organized. These institutes are really live institutions well supported in every way, the attendance at regular meetings being excellent. The writer has had the greatest pleasure ular meetings being excellent. The writer has had the greatest pleasure in adversing many of these meetings. One is assured of good hearing and an abundance of intelligent questions. All the more general branches of poultry culture are engaged in, chicken raising, being of course, the meet important; goose and turkey growing stands out prominently. The question of improved methods of marketing is awakening a keen interest which hids fair to place Prince Edward Island in the foremeet ranks in the not distant future.

in the not distant future.

The Agricultural Short Course, for the inception of which the far-seeing and deep-thinking Commissioner of Agriculture, the Hon. Murdock Mac-Agriculture, the Hon Murdock Mackinson, was reprossible whe strongest evidence of the Land may be confidently looked for in the agricultural future of the Island Province. This Agricultural Short Course was probably the greatest of its kind ever held in the Dominion and certainly the largest proportionand certainly the largest proportionately to the population if not the largest actually. Five hundred farmers and farmers some and daughters came to the Capital and stayed for

ligent class, are keenly alive to the importance and great value of the charding. Many of these insects, at industry. Much is Leing done to introduce up-to-date methods of housing, feeding and general care of pouling, feeding and general care of pouling and general care of pouling feeding with due appreciation. Good meetings are the order of the Good meeting and some other peets. and some other pests.

MORE RELIABLE THAN BIRDS

We read much of the valuable work done by insectivorous birds in general, in this direction. They certainly do enough to merit protection against the shot-gun, even though they do occasionally "take toll" of the fruit.

occasionally "take toll" of the fruit. But the faithful hen does the same work, and without taking any toll.

The droppings of poultry also continually add a valuable fertilizer to the soil of the orchard, and their constant scratching helps maintain the moisture-conserving "dust blanket." Manwhile if the feet the seat the seat when the contract of the seat the constant scratching helps maintain the moisture-conserving "dust blanket." Meanwhile, if the feed they gather from the soil is properly supplemented with grain rations, their production of eggs is as large as anywhere else, and they can be fattoned for the market with equal faeility.



Pratt's 160-page Poultry Book, 10c by mail



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Incubator. CURES Roup, Scaley Leg, Can ker, Cholera, PREVENTS White Diarrhoe up, Scaley Leg, Can-**Endorsed by 50 Experiment Stations**

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Ask the Druggist or Poultry Supply Man At dealers 8 oz., 25 ets; Quart, 50 ets; Gal., \$1.50 Postpaid 8 oz., 35 ets; Quart, 65 ets; Gal., \$1.50

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You need this book. It will be mailed free. A post card will bring it.

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The NIAGARA TRIPLEX and BEAN DUPLEX have made a record all over Ontario for results. Let us refer you to our hundreds of satisfied customers. These pumps run every day and all day. They will supply 2 lines of hose and spray at any pressure up to 300 pounds. Built with all troubles left out

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NIAGARA BRAND SPRAY CO., LIMITED

Head Office: BURLINGTON, Ont. Factories: BURLINGTON, Ont., TRENTON, Ont.

**************** **HORTICULTURE**

Orchard and Garden Notes

Test all vegetable seeds as soon as

Test all vegetable seems as soon as they are received. Calliopsis is a desirable quick grow-ing annual for the cut-flower garden. Go over the tools, put them in re-pair, and order any new ones needed

pair, and order any new ones needed for the summer's work. Order plenty of sweetpea seed. There is no annual that is more ap-preciated than this. Sow a few asters, pansies, cobea; and hardy carnations in the house the

last of the month for earliest flowers

The Senator Dunlap strawberry, Beta grape, King raspberry and Wealthy apple are good fruits for the garden. Plant liberally of each.

garden. Plant liberally of each.
Lilac tranches may sometimes be forced into bloom by cutting them and keeping in water in a cool, moist place, gradually giving more heat until the buds expand.

til the bude expand.

Plant out a few shrubs about the
yard this spring. Spiraes Van
Houttei, common lilac, Japanese
lilac, Japanese rose, Mayday tree,
mock orange and flowering currant
are all good for the purpose.

Golden Bantam, sweet corn, Swisschard, Golden Self-blanching celery,
purple eggplant, Kohl Rabi, White
Japan muskmelon, Sweet Heart
serverbet twing. are worth trying.

Canadian Apples in England W. J. Egan, Trade Commissioner, Manchester

Direct shipments of Canadian ap-Direct shipments of Canadian apples from Montreal to Lancashire are some 16,000 barrels less during the season of 1912 than 1911. The big decrease is at the port of Manchester, there being some 34,000 barrels less shipped from Montreal to this ort than in the shipping season of 911. It was pointed out in the Weekly Report that owing to certain conditions, the Manchester fruit brokers would depend almost entirely consignments. However, on consignments. However, it is gratifying to note that the port of Liverpool increased its importations from Montreal by about 17,000 bar-rels. The figures for total shipments from Nova Scotia have not come to hand as yet, but there is sure to be a very large increase to Lancashire in the Nova Scotia apple.

the Nova Scotia apple. With very rare exceptions the trade here commend very highly on the Canadian fruit and packing this year. Particular reference is made throughout the trade to the packing of Nova Scotia apples. There have been much larger shipments this season from Nova Scotia of No. 3 grade than usual, and some company shipping usuai, and some company snipping from there have adopted a new sys-tem, adding to the grade No. 3 such words as "ordinary," "plain," "A," "B," "special," "large," "extra large," The brokers and wholesole dealers in connection with the salesdealers in connection with the sales-rooms here do not approve of this system, as it has the effect they claim of inducing certain people in the fruit trade to sell such fruit designated as No. 3 "extra large" as No. 1. This creates great dissatisfaction. On the other hand Nova Scotia has shipping direct to firms who have no connection with the salesrooms, and these people of course approve of the system, as they say that for No. 3 of different grades they secure prices in different grades they secure prices in proportion. As to results financially, the shipping trade of Nova Scotia will know best if it has been of ad-vantage to make what is practically several grades in Canada's No. 3 ap-ple. There is no doubt that generally spes in e thre 3, a

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Notes

speaking the system, which has been in existence here for some time, of three grades only, viz.: No. 1, 2 and 3, and to which the fruit trade here has been educated, would seem the best system.

Apples for Profit

What six varieties of apples do you consider profitable, was a question discussed by J. R. Anderson, M.P.P., at the last meeting of the Ontario Fruit Growers' Association. Mr. An-

opinion that it would take "75 trees of King to produce one barrel of apples a year." Mr. Brown of Norfolk county, an orehard man, recommended that the Duchess be added to the list as a profitable apple and another fruit man present said it was the only created that the produce of the produ standpoint, were unanimous in rejecting the King.

Profitable Plums

W. Dewar. We never hear high flowing terms and elo quent praise be-stowed on the common place plum, but it is a profitable sort of fruit after all. I believe that as much money can be made from land devoted to good varieties of plums as from peaches. In se-lecting varieties

The 12-year-old cherry orchard if two acress here illustrated, own planting we can be considered to the following yields for five consecutive years, from 1907 to 1901; the following yields for five consecutive years, from 1907 to 1901; The sider the deprice averaged about \$1\$ a basket. How is that for returns mands of the price averaged about \$1\$ a basket. How is that for returns the four two accress of ground?

derson who is an apple byer selection of the factory and in the home, as plums ed his varieties as follows:

(1) Wealthy: This is one of the best early apples. It requires to be grown under proper conditions and Jums and the larger and more fancy kinds. I believe there is more profit in trying for the large crop of small plums than for the smaller crop of the fancy kinds.

(2) Snow or MacIntosh: Either of these varieties are popular here or in Great Britain.

(3) King: Mr. Anderson expressed the hope that Ontario Fruit Growers would never cease planting Kings. We can always sail them.



derson who is an apple buyer selected his varieties as follows:

(1) Wealthy: This is one of the
best early apples. It requires to be
grown under proper conditions and
must be pruned and thinned. The
thinning in the case of this variety
is as important as thinning a field of
turnips. It is popular on the market.

(2) Snow or MacIntosh: Either of
these varieties are popular here or
in Great British.

always sell them and always will. The King may not produce so many barrels to the acre as some other varieties, but what we have are worth something.

(4) Golden Russet: This variety is always on top in price and re-turns a fair profit on the outlay

(5) Baldwin:

The fruit growers assembled at the convention were not inclined to agree with Mr. Anderson's selection of profitable varieties. Mr. W. T. Macoun of Ottawa suggested that the Rhode Island Greening be substituted for the Golden Russet. "Nova Scotia," he said, "grows enough Russets to supply the dentant." Mr. Dumptham Fruit Northumberland and Durham Fruit and goosehery tubes aboutd also be thinned. The fruit is improved in quality and size.



Crops for the Cannery Demand Much Labor

market apple. Proportionately large.

(6) Northern Spy: This is the best apple when grown under right conditions, but a poor Morthely A for the proportion of the proportion o early. The Lombard I regard as the cheapest plum for the factories and for shipbing in large quantities. The Monarch, a late plum, is an excellent shipper and a heavy yielder. When it comes to selecting a fancy plum I prefer the Shropshire Damson. It is the highest priced plum I know of and the deniand greatly except the property of the property of

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the right amount and form will feed the crop from seed to harvest. It is not a question of being available at the start, or available at the finish, but being available all the way through.

The A. A. C. Fertilizers are made that way, timed to be available at each stage of the growing season.

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Pointers on Nursery Stock

Prof. J. W. Crow, O. A. C., Guelph, Ont.

I always prefer a low headed tree.
I don't see what use a tree has for more than 12 inches of trunk or 18 inches at the most. It is difficult to get this kind of tree from the nursers.

Inches at the most. At its difficult reget this kind of tree from the nursery. The only way that we can get it is to buy a one-year-old, unbranch-old tree and grow the head to suit ourselves. Nursery men object to selling us these one-year-old trees, but there is a growing demand for them.

If nursery men would head all trees low it would be well, then those who want high headed trees could cut off the lower branches. Nursery men will here again tell us that there is no demand for this kind of tree, but if they would use their influence to make low headed trees more popular, there soon would be a demand.

Oyster Shell Scale in N. S.

A. Kelsall, Willmot, N. S. A. Kelsoil, Willmot, N. S.
A large percentage of the orchards
in the Annapolis Valley are infested
with bark louse. This is particularly
true of the older orchards, probably
on account of the greater protection
offered the lice by the more rugged
bark. How to effectively extermin-

oark. How to effectively exterminate them is an important problem.

It has been proved in various parts of the United States, and also in or the University of the comparatively mild climate, that a strong solution of lime-sulphur applied in the dormant season will destroy the bark lice. Acting on the assumption that what is a fact elsewhere will be a fact here, fact elsewhere will be a fact here, several orchardists sprayed with lime-sulphur early last spring, and, were surprised late in the season to find that the bark louse had not been killed. It is supposed that the bark louse in Nova Scotia has a consider-ably tougher shell than it has in ably tougher shell than it has in localities having a milder winter, and consequently the lime-sulphur is not capable of penetrating that shell and reaching the insect itself. The orchardist in Nova Scotia has to find some other method for attacking the

WHITEWASH EFFECTIVE

In young trees where the lice are confined to the trunk, whitewash can be applied with a brush during the early spring with effective results. It is better to make more than one application in order to do the job thoroughly. The scales peel off in a very short period after this and the trunk is effectively general. It may be possible dealingly with the ordinary is reasonable to the property of t mit of the whitewash being made thick enough.

The most effective way of extermin-The most effective way of exterminating the louse is by means of fectorsone emulsion. The young lice generally hatch about the beginning of June, and are at that time unprotected. They can be seen as small white spots with the naked eye, and as there is but one brood during the years the great time to sure with year the exact time to spray with kerosene emulsion is easily ascerkerosene emulsion is easily ascer-tained. In view of the doubts which exist regarding lime-sulphur as a scalecide in Nova Scotia, June spray-ing with kerosene emulsion should takes its place in the attack against the bark louse. If the aphis is pre-sent the emulsion will destroy them

I have had excellent results from two sprayings with lime-sulphur, one with the strong solution, when the trees are dormant, the other dilute, when the blossoms have failen. I ob-tained 90 per cent beyfect fruit, when other years the appiles were largely unmarketable.—I. Wolverton, Lin-coln Co., Ont.

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Get our new Silo book and learn how to make more money from your cows.

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ship in barrele to avoid bruising.

I will this spring deliver, prepaid, to any express office in Ont.

Of Que. a crate of Potato Sets (any
of above varieties), all ready for
Cash with order. lie. not for \$1.98.

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Cash with order. lie. not for \$1.98.

H. Gordon Smith, Union, Ont.,
says the seed he got from me,
planted side by side with his owt,
ryielded 100 bas per acre more than

order to be a supply you.

C. FRED FAWCETT Upper Sackville

MONEY can be made easily by showing Farm and Dairy to your friends and getting them to subscribe.



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Celery for the Home Garden

George Baldwin, York Co., Ont. No home garden, no matter how small, is complete without a trench of smail, is complete without a trenen or celery, though from personal observation in the gardens of people with whom I am acquainted, the proper quality and size of celery is not brought out as it should and can be

growing are many. First and fore-most among them is a love for your work. If you do not like your job, you will never be a real success.

you will never be a real success.

The soil for three row trench, I would recommend white Plume, Paris Golden and Rose Ribbed Paris: As soon as seedlings have got three leaves, prick them out into more space, giving them about

better than the old one of marking by the plow and cultivating but on

My method requires only about one-third the amount of seed used in one-third the amount or sees used in the old method. The ground can be kept clean with much less expense, and practically all of the ground is cultivated and more moisture retain-ed which is so desirable, especially in

System in Planting Onions A. H. MacLennan, O. A. C., Guelph, Ont,

Ont.

Ont.

Ont.

The soil for onions should be worked down very fine and level and rollind as the onion grows on the surface of the ground and the seed requires to be Larely covered. First of all the seed should be tested for germination years.



An Ideal Plantation, showing Thorough and Intensive Cultivation

The strawberry plantation in connection with the Felixtowe Orchards, Victoria, B. C., here illustrated, is a model one. Notice how vigorous are the plants, and how thoroughly cultivated is the soil. Strawberries are the ideal erop for the year cochard. They must be well fertilized and sell cultivated, and in winter the strawberry much is also an insurance segment the winter killing of young trees.

one inch or room each way, keeping them as close to the glass in the hot bed as possible to prevent them getbed as tick and when they are about two will require four to five pounds per stick and when they are about two inches high transplant again, giving three inches of space. About the second or third week of May they will be ready to plant out in the

Methods With Potatoes

Chas. Pierce, Prince Edward Co., Ont.

For a good crop of potatoes I have the ground fine and mellow to a good depth through working with plow, disk, cultivator and harrow. I take the cornmarker and mark the ground both ways the same as for corn. Then take the arriver took cultivate. both ways the same as for corn. Aben take the spring tooth cultivator and remove all teeth but four. These teeth are placed close together in pairs and the pairs far enough apart to make two furrows.

These furrows are narrow in the bottom and this makes the potatoes line up well for the cultivator. The soil in the bottom of the furrow is loose and when the potato is dropped it does not bounce. By stepping on each piece dropped, it is pressed in the mellow dirt, and by watching the cross marks made by the cornmarker it is quite easy to have them as straight and easy to cultivate as

COTR.

CULTIVATE AND COVER AT ONCE
In covering I use the spring-tooth
cultivator with all the teeth on except in centre. This file one furrow
each time and gives the ground an
extra cultivating leaving the surface quite level. I like this way much

12 inches to 14 inches apart, which will require four to five pounds per acre. The seed drill should be tested and the sowing done accordingly, so as to be sure of sowing enough and not too much. This will save much tedious work of thinning later on. This system is suitable for all of the medium sized onions. If the sowing it done arough to thinning will be a fine or the first own the system of the system medium sized onions. If the sowing is done properly, no thinning will be necessary, as the small percentage of smaller onions may be used for pickling. Two: The seed is started in a hot-bed or greenhouse in Pebruary and later transplanted into the field. This will give a large onion and is suitable for the onions of the Gibral tar transplanted in the content of th tar type.

Lime on Seed Potatoes

We have picked over our potatoes and sprinkfed the good once with old lime fallen apart. I now hear people say that lime destroys the seed aproats in potalism destroys the seed aproats in potalism destroys the seed aproats for planting. It is so that so the sprout of potatoes. The trouble is that many use fresh lime which is only nartly hydrated.—A H

which is only partly hydrated.—A. H. MacLennan, O. A. C., Guelph.

I bought a power sprayer last year. It is the only way to spray. In the last sprayer season the wind did not change and many orchard men got only one side of their orchard sprayed. With my power sprayer the trees were thoroughly drenched on all sides were thoroughly drenched on all sides and we did not have an are cent, of and we did not have one per cent. of worms.—J. W. Clark, Brant Co.,

A Big Money Maker

For the Fruit Grower, for the Farmer, or for any Land Owner

The ever increasing value of Farm-lands calls for larger profits per acre. To keep pace with this the farmer pays more attention to the breed of cattle he is raising; he applies scientific methods in tilling and working his soils. The fruitgrower does the same, and is growing those varieties of apples and other fruits that command the "tip-top" market prices. We are not introducing to our readers a new variety of apple-we are only reminding them again of one that is well known amongst apple growers as "a big money-maker."

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This is certainly one of the most profitable commercial apples. The tree is a rapid and strong grower, hardy, and one that bears at an early age. The fruit is large, splashed pink and washed with a beautiful darkish pink and the flesh yellow, juicy, and a good marketable quality.

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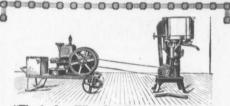
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H. A. MACDONELL, Director of Colonization, Parliament Buildings. Toronto, Ontario

Orchards in the Georgian Bay District

Jas. Laughland, B. S. A., Colling-wood, Ont.

Along the shores of the Georgian Bay lies a tract of land that has great possibilities for the production



Jas. Laughland

of high class ap ples. Much of this land has been under ap-ple orchards of varying sizes for a great number of years and of years and more of it is covered with orchasis that have been set out within the past two or three years. Many of the old orchards have been unproductive and

productive and unprofitable, not because there is no money in growing apples, but on account of the trees being left absolute. It is not because the trees being left absolute. It is the said weeds for pessession of the soil and the plant food it contains and to Lattle with insects which in many cases resulted in these winged maranders getting possession of the fruit cases resulted in these winged mar-auders getting possession of the fruit-and folinge leaving the trees neither and folinge leaving the trees neither across the control of the control a crop of grain mental. In growing a crop of grain mental, the growing is not well prepared as the major is not well prepared as the major not be obtained. The same may be said of the orchard land, neglected trees will not produce a full crop. All orchards in this district have not been neglected. Some farmers have given the trees constant care from the time thy were planted and have received handsome profits from the sale of fruit. Other orchards

h we received handsome profits from the sale of iruit. Other orchards that were well set out, but received no further care until they became sod-bound and the trees from lack of care became rough in the bark, un-healthy and possessed of too much wood, have been made productive af-ter they have been given proper treatment. Since the Department of Agriculture through the local repre-Agriculture through the local representative commenced to give farmers assistance in fixing up their orchards some growers have taken orchards in which the trees were in a very un-thrifty condition and by giving these trees good care in two years time they were made to yield a net profit of over \$200 per acre.

AN IMPORTANT SOURCE OF REVENUE In a section of the province like the Georgian Bay district where ap-ples can be grown so successfully every farmer should have at least every farmer should have at least enough trees to supply the household with fruit and the man who enjoys growing fruit will find a good profit in growing apples more extensively and supplying some of the larger markets. Although in some cases as high as \$200 per year clear profit has been made one cannot have to obtain been made one cannot hope to obtain this every year, but still when the trees are properly handled they are bry important source of revenue

to the owner. In a short time the apple trees will taking on new life and now is the t me to begin to give them the necessary care to insure a full crop of fruit in the fall. The treatment that neglected orchards need is first, a good pruning to remove dead wood good pruning to remove dead wood and other branches to open up the tree; secondly, the rough bark should be scraped off and this can easily be done on a morning in sprine when the trees are wet. The next operation is careful spraving with line-sulphur shution at least three times first, just before the trees leaf out, secondly, before the blossoms burst, and third, just when most of the blossoms have fallen. Areantee the blossoms have fallen. Arsenate

Potash for the Orchard and Garden

View of Young ORCHARD, property of Mr. T. Brydon, Saanich, B.C.



Mr. Brydon applies large quantities of POTASH, annually, in his Orchards

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profit NUR e like re ap-sfully least schold enjoys profit sively larger ses as btain n the y are venue

s will is the process op of that st, a wood process can pring next with three s leaf ssoms enate

or lead should be added to the last of lead should be added to the last two sprayings. The next remody to be applied to the sick orchard is to cultivate it floroughly and apply some manure. A cover crop of clover sown in the middle of summer will help much in enriching the soil. Such treatment brings the trees back the treatment brings the trees back the produce good fruit.

Late Cabbage

A. H. MacLennan, O. A. C., Guelph,
For late cabbage, the young plants
must be started in a seed ted that
can be covered because of the cabbage by that appears in late May and
feet will be. Apply of the plant of the
cet will be appeared by the started of the
arre. The large heated types should



Three Crops on the Same Ground

This illustration, from a photo taken by an editor of Yarm and Dairy on the farm of Mr. W. B. Anderson, Peterborc Co., Ont., shows the way in which market gardeners are enabled to make a profit on their high-priced land. Here we may see tree fruits, raspherries and potatoes all in the same flat.

be planted about 36 inches by 24 inches, and the smaller early types, 24 inches by 18 inches.

24 inches by 18 inches. When transplanting to a field, about half of the larger leaf surface should be pruned off to reduce transpiration, and a batter of clay and cow manure should be made in which the roots of the young plants are immersed and carried to the field. They should be taken from this and planted direct. This treatment will give the plants a start in the ground before the plants as the plants a start in the ground before the plants as the plants a film of this batter adhering to their roots. roots.

Market for Vegetables

Market for Vegetables

I am on a emall farm, only 20 acres,
and want to get storted in growing garden truck. I have tried it for one year,
expecting to sell to the nearby towns,
but there are so many retired farmers in
our towns who grow garden truck to sell
that there is very little money in it for
ms. Could you recommend some buyer to
you in limits ally at a fair predit kindyou will be to the story of the sell of the sell
possible—D. W.
There are, of course, large houses

possible.—D. W.

There are, of course, large houses in Toronto. These, as a rule, give first-class satisfaction. Of course, there is always the danger of running into a glut. The Dawson, Elliott Co. and William Davies Co. are two conferences. Co. and William Davies Co, are two such firms. Some make a practice of shipping to smaller towns; in these they have some grocer who handles their goods.—A. H. MacLennan, O. A. C., Guelph.

Grand Rapids lettuce is best for hot-bed or greenhouse. It is also a good variety for outside.



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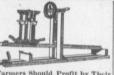
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CAGGING of a AGGING of a seeder allows the centredrills to sow too deep, and delays crop growth and ripening. But in the Cockshutt, a strong I - beam across the entire manifest of the cockshutt, a strong I - beam across the entire manifest of the cockshutt, a strong I - beam across the entire manifest of the cockshutt, as the cockshutt, as the cockshutt, as the cockshutt of e prevents this. All crop grows at once, and ripens Each disc has an

oil well and dust- year. Just proof bearings. Oil not do it? once a season only. You have light draft and quick seeding.

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bushels on each 100 acres of crop, if you use the Cockshutt Drill. This is pure profit, year after year. Just buying a "Cockshutt" gets it. Why This drill does not clog with mud or trash. The

boots are mud-proof. The discs have large scrap-ers to clean them. Besides, they "draw away" from the boot, and clinging trash falls off, instead of wedging. This feature means that you sow all your land. Also that stops are prevented. Seeding is done early. You save time and wages. Your crop gets an early start.

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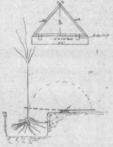
Useful Garden Implement

W. J. Justice, Simcoe Co., Ont.
An implement that I have found very useful in my garden is the little weeder here illustrated. was made as fol lows: The blade was cut with a cold chisel from a cast away hoe blade, and the cutting face filed to an edge. The stem was rivetted on by a rivetted on by a blacksmith. It could be put on by any one hav-

a breast This tool is exceedingly handy for close work one could be used in each hand. It is especially good for weeding beans and Dutch set onions.

Convenient Tree Planter

W. T. Ashbridge, Keloena, B. C.
I enclose a sketch of my tree-setter.
It is simple and easy to make and just as easy to operate.
As may be seen, a triangular frame is made of three laths nailed together and hinged to a 1 x 6 board by leather hinges.



A Convenient Planting Board

In using this setter, the crotch of the frame is set up against the state marking the tree, then the frame is swung back out of the way and the hole dug for the roots. When planting the tree to see if it is where the state was all you have to do is to swing the frame back, as shown. The 1x6 board planes seed on the set of the state of the state of the seed of the In using this setter, the crotch

Having to plant a thousand trees a couple of years ago, the old planting device of a board with a centre motch and two pegs, did not appeal to me, and the one here suggested was adopted. In practise I find it quite satisfactory and others near who have tried it say it is a labor saver.

Nursery Queries

Will you inform me where I can obtain apple seedling to graft this spring? What would be the best book or paper for a young beginner in nursery work?— "Reader," Norfolk Co., Ont.

"Beader," Nortolk Co., Ont.
Most of the large nurseries will sell seedlings of imported stock such as they ordinarily use for propagation. Concerning nursery work, the beat literature on the subject is contained in the Nursery Book, by L. H. Bailey, published by Macmillan Co., 70 Bond Street, Tornoto.—Prof. J. W. Crow, O. A. C., Guelph.



Free Farrier Book

Whit would you give to know how to curve any any and the control of the control of the when it is sick without having to call in the Horse Dector? may chicken it would sometime mean saving the life would sometime mean saving the life would sometime mean saving the will would sometime mean saving the world would sometime mean saving the world would be supported by the control of the control of which would be supported by the control when the saving the control of the control of the Art of the control of the control of the control of the law of the control of the control of the control of the law of the control of t

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The Most Profitable Peaches

Wm. Armstrong, Lincola Co., Ont.
If I were planting a peach orchard today, I would have but three varieties, or four at the most. I would have then ripening at different times, so that the same set of pickers with health. could handle the entire crop. From my 40 years of experience in peach growing I would select the following varieties:

varieties:

(1) Yellow St. John: This peach is handsome in color and size, coming in just when people want it. It is a money-maker and a good be rer. Its weakest point is that it clusters too much, especially when about eight

years old.

(2) New Prolific: This is the test peach of all varieties. A twig 14 inches long will have from 50 to 60 buds. I would recommend kutting

My third variety and one much

liked in foreign markets is the Duchess. It is a fairly heavy bearer.

Were I to select other varieties I would take the Anjou, Boss and Clapp's Favorite. The first is an an-Boss and Clapp's Favorite. The first is an an-nual cropper with a full crop every other year. It is of high quality and there is a good local demand for it. The latter blights baddy but is the first pear on the market and a good price is always realized. It is a good cropper and of fine appearence.

Hints on Top Working

John Beemer, Brant Co., Ont. Of late years I have come to prefer trees that have been grafted to the varieties desired before they leave the nursery. At least three years are lost when Talman Sweets or other



In One of the Nower Peach Growing Districts of Ontario

When we think of peach growing in Canada, we have also been accustomed to think also of the Singara district; but the peach bett is extending as this photo-graph shows. The healthy three-year-old peach orchard here illustrated is in Lambton Co., Ont., near Forest. As hardier varieties are produced we see no reason why peaches should not be siccessfully grown in all of the older sections of Outzario as well as in the more favor-poly situated sections of the other Eastern

back to four or five buds.

back to four or five buds.

(3) If I wanted to plant a variety
that would mature between the two
already mentioned, it would be the
Fitzgerald, a heavy bearer, but one
needing careful trimming.

(4) My choice for a late maturing
beach would be the
beach would be the
incompanies of the control of the
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I can offer on its merit. I can offer on its merit

Pears to Plant

M. C. Smith, Halton Co., Ont. This year we had over 5.000 bushels This year we had ever 5.000 bassess of pears. I have handled pears for several growers, heard their experiences with various varieties and if I were planting an orchard myself I would reduce my selections from five or six varieties to three.

My first choice would be the Bartquality, appearance and yield. It is profitable for home and for foreign markets. As well as being a heavy cropper it is an annual cropper. It bears young and lives long.

bears young and lives long.

My second choice would be the
Kieffer. The longer we grow it the
more we appreciate it. It is a heavy
and early bearer and easier to take
care of than most varieties. It is not
very popular on local markets, but
there is a growing demand in England for Kieffer pears. One of the
best English dealers advised me to
plant Kieffer and next to the Bartlett the canning factories neefer the lett the canning factories prefer the

hardy varieties are set and top worked to the varieties desired by the orchardist. In one of my orchards set nine years Spy trees that were bridge grafted in the nursery have tops that are 50 per cent. larger than other trees set out at the same time and top worked on the same parent stock. Many of us, however, have young orchards set that have to be top worked. Others will have varieties that will turn out unsatisfactorily and the tree can be changed over by top working. Accordingly a few hints gained from my experience may be of value.

I never top work the tree in one season. This robs the tree of vital-ity and gives it a check in growth that it may never get over. At least three years should be taken in top working the young tree. We do not allow any buds to develop that are not at least three inches above the joint. Branches growing out very joint. Brancaes growing out very near the graft are very apt to split off. Two scions are inserted in each graft but only one is permitted to

Don't forget to save some seeds to give to your friends.

Many insects can be killed on gold-en glow, sweet peas, rose, buckthorn, plums, or any plant, by applications of soap solution. This is perfectly safe to use, and leaves no bad odor, and a few applications apparently are sufficient to rid a plant of its un-pleasant narsite. pleasant parasite.



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postpaid. Childsi Mixed—10 for 60c.; 25 for \$1.25; Childs Mixed—HU for O.C.; 22 for \$1.27; \$4.25 per 100—postpaid. Bruce's Superb Mixed, made up by our-selves from all varieties—the best -10 for 60c; 25 for \$1.35; \$5.00 per 100—postpaid. Named Varieties, any color (see catalogue) 10c. to 50c. each—postpaid.

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John A. Bruce & Co. Ltd., Hamilton, Ontario Seed Merchants Established 1850

FARM AND DAIRY

AND RURAL HOMB

Published by the Rural Publishing Com-



J. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Cana-

Assignment associations, and of the Cana-2.SUBSCRIPTION PRICE, 5.156 a year. Great Britain, 5120 a year. For all coun-and 500 for postage. Notices of the es-piration of subscriptions are sent to all subscribers, who then continue to receive subscribers, who then continue to receive continuation. No subscription is con-tinued for more than one year after date of expiration. A year's subscription free for a club of two new subscription.

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

4. CHANGE OF ADDRESS. — When a change of address is ordered, both the old and new addresses must be given.

5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue. 6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT

The paid subscriptions to Farm and Day paid subscriptions to Farm and tion of each sexue, including contact the paid subscription of each sexue, including contact papers sent subscribers who are but slightly in arrears, and sample copies, varies to the part of the papers and the papers are part of the papers and the papers are the papers and the papers are part of the papers and provinces, will be mailed free on request.

OUR GUARANTEE

OUR GUARANTEE

We guarantee that every advertiser in
this issue is reliable. We are able to do
this because the advertising columns of
Farm and Dairy are as carefully edited
protect our readers, we turn away all
unscrupulous advertisers. Should any advertiser herein deal dishonestly with you
serbers, we will make glood the amount
of your loss, provided such transaction
occurs within one month from date of this
week of its overpret due to within a
veck of its owners and the reader of
the facts to be as stated. It is a condition of this contract that in writing to
advertisers you state. 'I saw your adverRogues shall not ply their trade at the
expense of our subscribers, who are our
friend, through the medium of these coltrifling disputes between subscribers and
homorable business men who ndvertise, nor

pay the debts of honest bankrupts.

FARM AND DAIRY PETERBORO, ONT.

THE APPLE SITUATION

There was more spray material and spray outfits sold in 1912 than in any previous year in the history of the apple growing industry in Ontario. And probably there were more apples that failed to reach the market or that were sold for less than cost of production in 1912 than for many years past. These apparently contradictory conditions are a sore puzzle to many growers who last year went to considerable expense to sprey their orchards and even then did not find a market. An Oxford county grower recently said to us, "What is the use of spraying anyway? Last year I spent \$75 spraying my orchard, and didn't sell enough apples to pay for the spraying material."

This grower, like many others, had been accustomed to sell his orchard to the buyer making the highest bid.

During the last couple of years, however, the small buyers have been having a hard time to make both ends meet. They lost heavily on the crop of 1911, and in 1912 were not able to obtain credit to carry on their business. Consequently, in many districts there were not enough buyers to handle the mop of last year. In fact, changing conditions in the apple trade are making the small buyer a thing of the past.

It is through the cooperative association that our apples will be marketed in future. Speaking in Toronto last fall the Hon. W. J. Hanna stated that Lambton county produced fifty thousand barrels of apples in 1912. Thirty-five thousand barrels went to market; fifteen thousand barrels went to waste. The first were marketed through cooperative associations. The second the growers attempted to market themselves. One small association, mentioned by Mr. Hanna, did not sell a barrel of apples for less than three dollars; and this in a year when so many apples were not sold at all.

The same story might be told of many other counties in Ontario. Fruit growers will be wise to organize for the packing and distributing of their products without further delay. The conditions that are making cooperation necessary may for a time be a cause of hardship to some, but in the long run they will prove of benefit to the fruit growing industry.

A DANGER IN ENSILAGE

Those of us who have been in the habit of feeding ensilage to our work horses were startled a short time ago to read in the daily press that Dr. W. F. Harrison, Ingersoll, Ont., had attributed the death of five valuable horses in the neighborhood of Ingersoll to the feeding of ensilage. Realizing that this is a subject about which Farm and Dairy readers would like to be more fully informed, we immediately wrote to Dr. Harrison for fuller information. Dr. Harrison replied as follows:

"I met five cases in two weeks. All proved fatal. I have no doubt but that my diagnosis that the deaths were due to ensilage was correct. I do not think that good ensilage is detrimental to horses, although I would not care to advise feeding it to that class of stock. Some of the silage fed in the cases that proved fatal, however, was indeed bad. Two horses died the fourth day and the other three cases lasted nearly a week."

Those of us who through lack of feed are almost forced to feed horses ensilage, should take warning and exercise every precaution to see that they get nothing but sound feed. In any case, we should remember that ensilage is bulky and contains compartively little nutriment, and that the stomach of the horse is small, requiring more concentrated feeds. If ensilage is to be fed at all it should comprise a very small part of the ration. Bad ensilage should not be fed to any class of stock.

COMPULSORY SPRAYING

The statement, "You have to spray," means more in British Columbia and in the great fruit growing districts of the Western States than it does in the Eastern provinces of Canada. In the West, "You have to spray" is a legal expression. The law is behind it. Spraying is compulsory. In the East, "You have to spray" is commonly heard, but the speaker usually adds "if you would have good fruit," "if you would market to advantage," or some similar phrase. It may be, however, that before long this expression will take on the additional legal meaning even in the East.

their best to control insect and funrights are changing. We now bemunity. And the man who will not spray when his neighbors do, is incommunity. The law should take care of him.

AND PRUNE TOO

Spray, spray, spray. Yes, and we might add, prune, prune, prune. We know of many orchards where a part of the time now devoted to spraying could be spent to much better advantage with a pruning hook and saw. We have seen orchards that were, so their owner thought, well pruned, with tops so thick that even a power sprayer could not be expected to do first-class work. We have seen orchards with the tops grown so high as to be absolutely out of reach of the spray mist and these tree tops afforded a fine breeding ground for the coddling moth. There are other reasons why we should prune as well as spray besides the fact that pruning admits of more effectual spraying. It takes less spray material to cover a well pruned orchard. We get better fruit from a well pruned orchard as pruning to a certain extent has the same effect in producing a quality product as thinning. And last, but not least, the best colored fruit will be found in the orchards in which the tree heads have been thinned by pruning. This is of particular advantage in a damp season such as was that of 1912. And this is the month in which most growers are pruning their orchards. Let us make a special effort within the next three weeks to get rid of some of the surplus wood in our old orchard; and what we do not get rid of this month, let us finish up in

To many it may seem radical, almost socialistic, to make a man perform certain operations in his own orchard. But is it not only common justice that when the majority of fruit growers in a section are doing gus pests, that the man who will not spray and whose orchard is a breeding and distributing ground of disease for all the rest of the community, should be forced either to cut down his trees or to spray them? Our idea of what constitutes a man's lieve that a man is only within his rights when the exercise of those "rights" does not interfere with the wellbeing of the rest of the comterfering with the wellbeing of the

THE 87 state universities of the United States and oth er state-aided educational institutions of that country last year received a working in-come of \$35,000,000. The national appropriations for army and navy amounted to \$111,-000,000. That is, for every dollar spent to put brains in, three dollars were spent to blow them out! Doesn't it sound like barbarism? But are we doing much better in Can-

The Hon. Martin Burrell, Dominion Minister of Agriculture, has recently made himself deserving of congratulation on two

A Wise scores. In the first Selection. place he has recognized the growing importance of the poultry industry in Can-

ada by appointing an additional official to the federal department of agriculture, a Dominion Poultry Husbandman, who will make the poultry industry of the country his chief care. But the point on which we especially desire to congratulate the Minister is his selection of a man to fill the new appointment. Not in this country or any other could Mr. Burrell have found a man more capable of filling the new position than Mr. F. C. Elford, who will assume his new duties on March 1st. Mr. Elford is well and favorably known among poultry men from one end of Canada to the other. As Professor of Poultry Husbandry at Macdonald College, he rapidly established a reputation for himself as one of the greatest poultry educationists in Canada. It is as founder, however, of the Poultry Producers' Association of Canada, an organization having for its object the standardization of Canadian poultry products, that Prof. Elford has rendered the greatest service to the Canadian poultry industry. Similar work for the promotion of our poultry industry may now be expected to flourish under Mr. Elford's guidance. We wis . Mr. Elford all succes in his new capacity.

"Sure, I would plant an orchard if I were a young fellow like you," a middle-aged farmer was heard to remark to one of his

How Long Must young neighbors at a We Walt? recent Farmers' Institute meeting. This

farmer seemed to have the very common idea that it takes an orchard eighteen or twenty years to reach a profitable bearing age, and, therefore, orchard planting is a proposition for young men only. We admit that it does take Spies, Baldwins, and other winter varieties a good many years to reach an age where profitable crops are produced. But the up-to-date apple grower does not depend on these late varieties for al' his profit. Practicelly all growers nowadays are practising the "filler" system, whereby early maturing varieties are planted alternately with the standard sorts and profitable crops harvested in a comparatively

few year Mr. Eln informs bear in Mr. Lic years fo one-half twelve y Lewis, I Spies w eight ye nally in ability u Beemer, county f with pro ten to to

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And so That's som ro count or vertise. Y decidedly an absolut aper like "A Paper

few years. Following this system, | five to six years, and Hubbardsons at Mr. Elmer Lick of Oshawa, Ont., informs us that he has had Ontario's bear in the fourth year. Nor does Mr. Lick wait eighteen or twenty years for Spies. His Spies will bear one-half a barrel a tree eleven to twelve years after planting. F. M. Lewis, Burford, Ont., writes that his Spies will start bearing seven or eight years from planting and gradually increase in crop producing ability until 25 years old. Mr. John Beemer, another successful Brant county fruit grower, tells us that, with proper pruning, Spies bear at ten to twelve years old, Ontarios at

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LXVIII.

Hubbard says: "The only man who should not advertise is the one who has nothing to offer, and he is a dead one-whether he knows it or not.

'Advertising is stating who you are, where you are, and what you have to offer the world in the way of commodity or service.'

This is putting it pretty broad; it gives you as an advertiser a new angle from which to view yourself and your advertisements.

The buying public will size you up pretty well. You can trust the public. They do like the goods that are advertised.

Fact of the matter is the goods to be successfully advertised must be O.K., and of a quality superior; otherwise they will not pay long for the advertising. First orders cost much. They represent no profit, -advertising cost is great. The goods must therefore be good enough to repeat; good enough so that people will want them again, and yet again. It is on such goods that advertising successes are made.

Little wonder then that the buying public prefer the merchandise that is to be advertised! To them it is as a great guaran-

This phase of advertising is not often discussed in connection with Farm papers. It is a big question and worthy of recognition nevertheless.

Take the ads. of long standing in this paper. Size them up on these points and see: De Laval, D. Derbyshire & Co., Sharples, Renfrew Machinery, Grimm Mfg. Co., Sherwin-Williams, the seedsmen, the feedmen, the Roofing firms, Cockshutt Plow, I. H. C. Massey-Harris, Frost & Wood, Five Roses. Windsor Salt, St Lawrence Sugar, etc., etc., ad infinitum

True, they answer up O.K. And so it will always be! That's something extra you want to count on getting when you advertise. You'll get it even more decidedly when you advertise in n absolutely clean, guaranteed naper like Farm and Dairy,-

"A Paper Farmers Swear By"

six to seven years. Of course, trees bearing at such an early age must have good care from the day they are planted. Summer pruning also aids in early fruiting. Moral: Even old men may hope to profit from the orchard that they set now.

Pointers on Cooperation

Jas. E. Johnson, Norfolk Co., Ont. Jas. E. Johnson, Norjoik Un., One.
Educational work should be the
first consideration in arranging a cooperative fruit growers' association,
Our association, which was started
with 17 members, now numbers 555.
Our work has been extending fast.
The association has grown faster than
the educational work. I believe than
the educational work. I believe than many of our associations are in need reorganization.

What should constitute a first class working member for a cooperative society? The first year of our asso-ciation we went around and coaxed growers to join in with us. We have

growers to join in with us. We have not done so since. Then any man who would hand in \$1 could join the association. Many of the members so secured were of no benefit to the society. Educational work had not been carried on among them and they were lacking in Joyalty.

It is essential to the best success of the society that it and every member should loyally support it. We have found members who showed their lack of loyalty by going to the apple buyers when the apple buyers when the apple buyers when the apple buyers when they have the succession of the society of the s

the associations.

OTHER GROWERS A MENACE

Another source of danger to our cooperative societies are the growers who have orchards but are not in the association. I have known these growers to do all in their power to harm our association while at the same time the association was of great benefit to them.

There is a certain type of merchant who is a mease to cooperative enter.

who is a menace to cooperative enter-prize. They think that all spraying materials should be bought from them. This trade they had prior to the formation of our society in Nor-folk county. But what did it amount to? In 1906 there was one barrel of bluestone used in Simose; now we order it wholesale in car lots. The benefit that the merchants will receive by greater trade more than out-weighs the value of the trade that we

weighs the value of the trade that we have taken from them.

But first of all what we want in our association is members who will back us up at all times. With such members as these we would have no members as these we would have no difficulties. But there are always parasites in the society to be dealt with. I believe that every associa-tion should have an investigating committee to look into the cases where members are not satisfied with results. After investigating and making public the results of a few cases they would have little work to do.

It is far easier to tear down the good work of an association than to build it up. Such an investigating committee would prevent destruction of work already accomplished.

Thinning should be done soon after the June drop. Remove first these fruits that are imperfect and then the smaller ones. Leave the fruit evenly distributed over the tree.— W. H. French, Durham Co., Ont.

Inky Spot on fruit was quite sorious last year. It is particularly bad in dull weather. It is largely controlled by properly thinning the tree.—J. W. Clark, Brant Co., Ont.

CREAM SEPARATORS

If a member of your family were dangerously ill you wouldn't think of calling in an inexperienced doctor?

Certainly not! You would call a physician, who had built up a reputation, a man with experience and a successful practice

"Why not use the same care and common sense in your selection of a cream separator?

Every little while you hear of some new cream separator,

claiming to be a "world beater" and just as good as the De Laval but a little These "mushroom" machines stay in

the limelight only until they are "found wanting" by the users and in a short time drop out of sight.

It takes years of experience to build a "good" cream separator. More than 30 years of experiments and experience have made the De Laval pre-eminently the best machine on the market for the separation of cream from milk.

Even were other concerns not prevented by the De Laval patents from making a machine exactly like the De Laval they could not build as good a machine as the De Laval, because they all lack the De Laval manufacturing experience and organization.

If you buy a De Laval you run no risk of dissatisfaction or loss. It's time tested and time proved. Why experiment? Why take chances with an inferior machine when you KNOW that the De Laval is the BEST MACHINE FOR YOU TO BUY?

DE LAVAL DAIRY SUPPLY CO., Ltd. MONTREAL WILNIPEG VANCOUVER

MAPLE SYRUP

ENTER THIS CONTEST



CUT OUT THIS COUPON

The demand for genuine and high-grade goods so enhances the mar ket price of Maple Sugar and Syrup that we have decided to open a com-petition to educate the consumer who is more familiar with the second or third grade article. To obtain this result, we offer \$500 in gold for the best made syrup and sugar.

Syrup and Sugar on Exhibition in Montreal

The object of making a display of this laid is on show the public the products of the very best Maple Syrup and Sugar Makers in Ganada, and must undoubtedly result in unlimited benefit for your feet of the athibitors. All syrup must be made on a Grimm "Champleon"—will be indeed impartially—must be of a light color to stand a chance of winning a prize—will be paid for if you enter the contest, or returned after contest is over if you no desire.

The entries will be exhibited in the magnificent Show Window of the "Montreal Star Contest Star Contes

Why not properly equip yourself to be a Winner in this contest? State number of trees you tap and we will give you price on a suitable sized outfit.

For all conditions and particulars, address



PRIZE CONTEST: (Don't Forget Coupon) GRIMM MFG. CO., LIMITED



Produce "Quality" Butter At a Profit

The "Beaver" Churn Will Aid You

The Beaver Combined Churn and Butter Worker produces the very best of butter,—butter that sells readily until the last pound has left your Creamery.

It keeps production cost down to a minimum, beunnecessary expenses, such

unnecessary sepanses, such as continual and the mechanism is so arranged that very little power is required for operation. There is no possibility of loss or waste, because the churn is provided with peep windows at each end, enabling the operator to see lists when to remove the batch.

The "Beaver" Churn is so carefully constructed and inspected before leaving the factory that it will last infinitely without repairs. All parts accidentally damaged or destroyed can be replaced easily and inex-

You will be well satisfied with a "Beaver" Perfection Churn. Write to-day for full particulars and prices. Address Dept. "B" W. A. DRUMMOND & CO., King St. East, TORONTO, Ont.

(Creamery and Dairy Supplies)

CREAM WANTED Highest City prices furnish cans, pay all charges, remit promptly. Haven't paid less than Mc for two months. Write TORONTO CREAMERY CO., LTD., Toronto

CREAMERY TO RENT

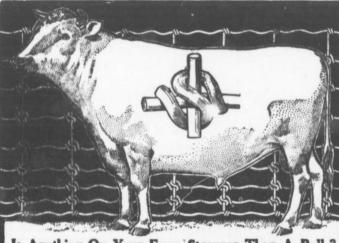
CREAMERY IV RENI
In a good dairy locality, two hours distance from Toronto, on main line of
tance from Toronto, on main line of
maker, 8 years' experience, wants altuntion. Address

Address, Bos 950, Farm and Dairy, Peterbero

NAPP. 2242 WAVERLY ST...

WORK WANTED

MONTREAL, QUE.



Is Anything On Your Farm Stronger Than A Bull?

YES! If your fences are "IDEAL" Woven Wire, made of large gauge No. 9 HARD STEEL wire, heavily galvanized and with the verticals and horizontals clamped together with the Ideal Lock—that CANNOT SLIP. Bull-strong; hos-right; horse high-a REAL fence.

NO! If you have wire fences of the ordinary kind-fairly good for a few years, but with no reserve strength to stand hard usage-because poorer wire makes them, and stretching them taut takes the utmest of their little strength to

All Large Guage Number 9 Hard Steel Galvanized Wire

From top to bottom Ideal Fence is all the same—large gauge No. 9 hard steel wire, heavily galvanized and therefore rustproof. Note to it and its uniform smooth curve—no sharp turns to weaken the strength of the lock and yet a most
positive gri—in IVE different places. This is the fence that has ample optinginess, immense strength, and
the ONE LOCK THAT'S GOOD. Drop us a card and get our catalog telling all about the many
styles and ments of IDEAL FENCE. Sample lock comes with it. Write us today.

McGREGOR BANWELL FENCE COMPANY, LIMITED, WALKERVILLE, ONTARIO

-----**Cheese Department**

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

น้อยของสากของระจากการสาก Mould on Cheese

Many patrons, not only of my own, but of other factories, are complaining of their cheese getting very moldy this year. Is this a defect in making of cheese?—J. L. D., Hastings Co., Ont.

L. D., Hastings Co., Onto In reply to your letter re "mold on cheese," I would say that probably the reason why cheese has been more subject te mold this year than usual, is on account of the favorable conditions which existed for the growth of mold, namely, mild, damp weather. Mold being a fungus grows quick'y conditions and cheese is a very suitable medium for it to grow on. The defect is not due to the make of the cheese.—G. G. Publow.

Canadian Cheese at Manchester W. J. Egan, Trade Commissioner, Manchester, E.C.

During the past season, for a short while, many importers here were afraid that Canadain cheese would not average up as well in quality as during 1911. Now that the season is practically over, the verdict, as rendered by the trade, is that during 1912 Canadian cheese has reached a very high standard, and the quality

is highly commended. From an importer's point of view From an importer's point of view the present season has been very disappointing. In spite of the fact that there has been a decrease in shipments to Liverpool of 229,702 boxes. prices are, at the present moment 6s, to 7s, lower than they were last year, and all the season it has been pretty much the same, very unprofitable. Our shortage in shipments has certainly had the effect of holding up prices, for had our shipments have the process of the process would have been much lower. The trade here attributes weakness in cheese prices to the low prices at which New Zealand cheese has been offering for the winter delivery. New Zealand's output will greatly exceed last year, and of course their free selling weakens the market for Canadian cheese.

New Cheese Package Proposed Jno. A. Gunn, Exporter, Montreal.

A question which will require to be decided in the near future will be that of the style of package which the Canadian cheese trade will adopt. the Canadian cheese trade will adopt. The supply of wood available for cheese boxes used at present is get-ting dangerously near the vanishing point, and while a substitute in the way of a paper box has been tried, it has not proven satisfactory.

to has not proven satisfactory.

To my mind, a package similar to
what the New Zealand choose trade
uses at the present time would be
the most satisfactory for the Canadian trade. It might be advisable to dian trade. It might be advisable to have this package made a little dif-ferent to the New Zealand box by haxing the middle heading consist of two thin tops, so that the package could be sawn in two. Similar cases are in vogue in connection with the irish and Danish egg trade. This style of package will cost very much less than the box at present in use, and will mean a great saving in coopering to the exporter.

To adopt this package successfully, all that will be required will be the use of refrigerator cars from the country points and cool air on the country points and cool air on the steamers, the exclusive use of which will be a step in the right direction.

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Cool Curing or Not J. Proudlove, Peterboro Co., Ont.

It a hot room cheese is bound to grease out and run away. Hence it is that the cod room is an advantage to both maker and patron. It is a help to the maker in that a poor cheese will not develop a bad flavor in a cool room. It is an advantage in the control of the control of

Meddessessessessessesses Creamery Department J. Proudlove, Peterboro Co., Ont. 1 have worked for 19 years with ordinary curing rooms and last sesson for the first time in my experimos I made cheese in a factory equipped with a cool curing room. I have come to the conclusion that a cool curing room is of great benefit to the patrons and I know that it is a decided satisfaction to the maker, Ir a hot room cheese is bound to mease out and run away. Hence it

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

Камаменанначаменаменамена

Boom the Silo

We are pleased to note the interest that is being taken everywhere in the matter of silo building. One can scarcely strike a single county or both maker and patron. It is a scarcely strike a single county or call to the maker in that a poor theese will not develop a bad flavor no a cool room. It is an advantage to the large the strike will be seen in our so great gad the extra uality makes the cheese more sought that the years of educational work which have preceded the present content of the strike will be seen to the strike will be s



A Fine Creamery in a Coming Dairy Province

The Red Deer Creamery, here illustrated, is one of the many fine creameries that are springing up in Central Alberta. We look forward to the day when Alberta will be numbered as one of the greatest dairy provinces of Canada. It has already made a good start,

caring facilities and the other not. Both receive ordinary milk, part had and part good. This buyer comes along with his tryer. The one he pronounces good and the other fellow tast to stand for a cut.

Yeasty Cheese

At our annual cheese meeting therewas a discussion about yeasty cheese. Is it an infection of the milk or is it the fault of the cheese maker? If it is in the milk is there any method to prevent the milk from being infected? Should the patron or the cheese maker be little if there is a cut in the price for that reason?

3. E. R.

directs a cut in the price for that reason?
J. E. R.
"Yeasty cheese" is invariably due
to an infection of the milk and the
preventative is absolute cleanliness
in, all things pertaining to the care
age, production, and the cooling of
the milk to below 65 degrees immediately after milking. Where a factory is having trouble with yeast fermentation, and the whey is being returned in the can in which the milk
was delivered, the whey should be
pasteurized before being returned as
as, to prevent the spreading of the
infaction. It would be difficult to say
whether the maker should be held
responsible or not for cats in price,
dus to this defect, without first making an inspection of the factory and
conditions relating to the manufactains—G. G. Publow, 'Chief Dairy
Instr., E. Ont.

material for silos. The value of con-crete as such is just beginning to be recognized and it will no doubt be a matter of only a few years before it will be used almost universally in the erection of silos. And there is a reason for its popularity. Perman-ency and efficiency combined with moderate cost and simplicity of con-struction are the qualities it possesses which make it the desirable material that it is. that it is.

Attention is also being given to more scientific construction of barns and dry fodder storage, all tending to the more economical and scientific feeding of milch cows and a more

feeding of milch cows and a more hygienic care of their product. Let the good work go on, and when-ever you have a chance to give it a boost, Mr. Buttermaker or Cheese-factoryman, don't fail to do so.— Butter, Cheese and Egg Journal.

Setting pails of milk on the stable floor is a dirty practice. Have an elevated shelf for them and do not let them stand even there too long.

Dairying pays as good profits, and most instances even better profits than any other tranch of farming. This in itself should induce farmers to take it up more extensively.



/INDSOR DAIDY SALT

Is The Cheapest You Can Use

not alone, because it is the purest and best salt for salting butter. But because it will salt more butter, pound for pound, than any other salt you can use.

The big creameries will tell you this-and show you tests to prove it-The Agricultural Colleges demonstrate this every day.

Every farmer and dairyman who is getting good prices for butter-is using Windsor Dairy

It is pure-it makes beautiful butter-it works in quickly-and it is the cheapest in the end. Just try it yourself.



Lump Rock Salt, \$10 for ton lots, f.o.b. Tor Toronto Salt Works, 128 Adelaide St. E G. J. CLIFF, Manager

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The Salem Brewery

Property, situated at Salem, Ont., Wellington county, 1 mile from Elora. Property consists of about 10 acres land, on which is a large stone building, containing two cold stone to the stone country of the stone country

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Calves Without Milk

BLATCHFORD'S CALF MEAL
The Complete Mill Fabriliute
the result of over 101 years experiment
the result of over 101 years experiment
Stop souring. Three cater case he raised
unitat the cost of one. Get
unitat the cost of one. Get
calves Cheaply and Suees-sulty Without Mill:
ye sending a posterant to:



Creamery For Sale

Creamery, running summer and winter.
Very large make. Neerything in first-class
refrigerator. Large stable with sheds and
other buildings. 6 acres good land. Close
to town and railroad. This is one of the
to town and railroad. This is one of the
NELSON SCHATZ. BADEN. ONT. AN

EXPERIENCED BUTTER MAKER WANTED

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THE faith that inspires is the trust which comes from Cour time-trusted friends- W. S. Royston. . . .

Rose of Old Harpeth

By:MARIA THOMPSON DAVIESS

"Copyright, 1912, The Bobbs-Merrill Company"

(Continued from last week)

A a pan in one hand and a cup in the other. "It's two calves, Tobe says, with just Mrs. Butter for Tobe says, with just Mrs. Butter for the mother and Sniffle best her with three more puppies than two calves. It's sixteen chickens and a passel of tirkeys and we waked up Mr. Mark te tell him and be said—" Stonie paused in the rapid fire of his an-nouncement of the morning news and then added in judicial tone of voice, as if giving the aroused sleeper his modicum of fair play: "Well, he didn't quite say it Lefore he swallowbut he throwed a pillaw at Tobe and pulled the sheet over his head and grouned awful. Aunt Viney was and ground awful. Aunt Viney was saving her prayers when I went to tell her, and Aunt Mandy was taking down her frizzles, but she stopped and gave Tobe some corn-bread for the chickens and some pot-licker with meat in it for Sniffie. Can't you come with me to see 'em new, Rose
Mary? It won't be any fun until you
see 'em!' The General had by this time lined up in the doorway with Und Tucker, and Tobe's black head and hen face peered over his should The expression in all three pairs of eyes fixed on hers was the same-the wild desire to make her presenta ton at the interesting court Dame Nature was holding in the barn. A most natural masculine instinct for feminine interpret ve companionship when face to face with the miracle of maternity.

"Just one more crock of milk to skim and I can go," answered Rese Mary as she poised the skimmer over the last yellow surface down the line of huge, brown, earthen bowls that in Harpeth Valley were known as crocks. The milk-house was cool and clean and smelled of the fresh cream lifted from the milk into the stone lifted from the milk into the stone jurns to be elabored for the tomorrow churning. And Rose Mary herself was a freeh, fragrant incarnation of the spirit of a spring sun-dawn that had come over the Ridge from Old Harpeth. Her merry voice floated cut was the hilling as the followed in over the hillside as she followed in the wake of Uncle Tucker, Stonie and Tobe, with the provender for the new arrivals, and it made its way as a faint echo of a dream through one of the vine-covered, gable windows of the Briars and the effect thereof was well-nigh instantaneous.

Everett, after a hasty and almost is incomplete toilet as the one made by the General in his excitement, arrived on the scene of action just in time to witness the congratulatory interview between Mrs. Sniffic and the mistress of her undying affections. The long-eared, plumy, young setter-mother stood licking the back of Rose Mary's neck as she sat on the barn ficor with all five of the young tum-blers in her lap, with Tobe and Stonie

ND in his wake came Tobe with hanging rapturously over her and a pan in one hand and a cup them, while Uncle Tucker was expanin the other. 'It's two calves, itaking at some points that had made themselves evident at his very early stage of the existence of the little dog

the way across the barn, with Sniffer snuffing along at the squirming bunsouthing along at the squirming bundle in her skirts, that swung against the white pettional ruffling around her slim ankles. With the utmost care she deposited the pupp es in an oversturned barrel, nicely lined with hay, that Stonie and Tobe had been presented to the control of the control that Stonie and Tobe had been pre-paring. "They are lovely, Sniffle," she said seftly to the young mother, who jumped in and huddled down be-side the Labie: as her mistress turned to leave them with the greatest reluc-

And it was well that the strata Everett's enthusiasm lay near the surface anad was carily workable, for in the next half-hour there was a great demand of continuous output. Mrs. Butter stood switching her and chewing at a wisp of hay with an air of triumphant pride tinged with surprise as she turned occasionally to glance at the offspring huddled against her side and found eight wobbly legs instead of the four her form-er experiences had led her to expect, and felt two little nozzling noses instead of one.

"Which one do you guess demanded the General.

"Shoo!" said Tobe in answer to

"They ain't not a single stub nose in the bunch. Uncle Tuck, not a one and every-tody's of thems toes stick way apart," exclaimed the General, bits checks red with joyous pride.

"Watch 'em, Miss Ro' harry, watch 'Mr. Tuck keeps heifers or bulls and

Pleasure and Work Combined, But Mostly Pleasure

Those merry young ladies were photographed by a Farm and Dairy representative when visiting at his home in Victoria Co., Ont. Who says life in the country is not O. K.—especially when there is a sugaring-off in sight?

'em smell Sniffie when I call her over here," exclaimed Tole as he held out the pan to Mrs. Sniffier and thus coaxed her from the side of Rose Mary and the small family. And, sure enough, ar und squirmed every little white and yellow bunch and up went every little new-born nose as it sniffed at the recession of the maternal fount. One little precocious even went so far as to attempt to set his weet so far as to attempt to set his wee fore paddles against Rose Mary's knee and to stiffen a tiny plume of a tail, with a plain instinct to point tan, with a plain instinct to point the direction of the shifting base of supplies. Rose Mary gave a cry of delight and hugged the whole talent-ed family to her breast, while Stonie and Tobe yelled and danced as Uncle Tucker turned with evident emotion to Everett to claim his congratulations.

"Never saw anything like it in my life," Everett assured him with the greatest enthusiasm, and, as he spoke, he laughed down into Rose Mary's lifted blue eyes that were positively tender with pride over the puppies in her arms. "It's a sight puppies in her arms. "It's a sight worth losing the tale of a dream for-taken all together."

jest had both kinds so as to keep one

"Well, Aunt Viney read in her wen, Aunt Viney read in her book of a place they kills girls and keeps boys. At this place they jest gits it mixed up with the cows and it's no use to tell 'em,'' answered the General in a disgusted tene of voice, and with a stern glace at Uncle Tucker, as he and Tobe passed on over to the feed-room door, to lead the way to the display of the little turks and cheeps for Everett's further edifica-

And just as the introductions were completed two deep notes of the mellow old farm bell sounded over the hill in a hospitable and reverent sum-mons to prayers and breakfast ensu-ing. On the instant two pairs of pink heels were shown to the company as Stonie and Tobe raced up the walk, which were quickly followed by Uncle Tucker, intent on being on hand promptly for the assembling of his household. More slowly Rose Mary and Everett fellowed, walking side by side along the narrow path.

"Rose Mary, have you let me sleep puppies in ner arms. It's a signt worth losing the tale of a dream fortaken all together."

"And all the others—I'll show you," and, gathering h r skirts hasketwise, Rose Mary rose to her feet and led aun waits dory your ammons er—"

"No, not my summons old lame Shanghi's. I balieve be is of French extractin, from his elaborate manner with the hens," answered Rose Mary, quickly applying his plaginrised compliment. "Lee's hurry or I'll be late for prayers. Would you like — will you come in today, as you are already up?" The color rose in Rose Mary's cheeks up under her long lashes and she gave him just one shy glance that had a tinge of requishness in it. "Thank you, I—I would like to. That is, if I may—if I won't be in the way or or—or—or—will you hold my hand so I won't go wrong?" he fin'shed in laughing confluxion as the Shanghi's.

fin shed in laughing confusion as the cheeks to match that in hers and the young look lay for a moment in his eyes. "It'll be my debut at family wership," he added quickly to cover his confusion.

'Don't worry, Uncle Tucker leads it." answered Rose Mary as they ascended the front steps and came across the front porch to the doorway of the wide hall, which was the liv-ing-rocm, as well as the artery of the Briars.

Briars.

And a decorous and seemly scenaries stepped in upon. Uncle Tucker sat back of a small table, which was placed at one side of the wide open fireplace, in which crasked a bit of fragrant, spring fire. His Bible and a couple of hymn-books rested in frent of him, his gray forelock had been meekly plastered down and the jocund lavender searly had been laid aside to display a stepicity white cosaide to display a straight white collar and clerical black bow tie. His eyes were bent on the book before him as he sought for the text for the him as he sought for the text for the morning lesson. Aunt Viney sat close beside him as if anxious to be as near to the source of worship as possible, though the strain of refraining from directing Uncle Tucker in the con-ducting thereof was very great. The bradition which forced silence upon bradition which forces stence specially women in places of public worship had held with Miss Lavinia only by the exercising of the sternest and most rigorous self-suppression, which at any time might have been broken except for the curbing of her iron

But even though silent she was still dominant, and over her glasses her commant, and over her glasses her cyes shot glances of stern rebule at two offenders in a distant corner, while Uncle Tucker fluttered the leaves of his hymn-book, oblivious to the unseemly contention. The General and Tobe, who come as near to living and having his being at the Briars as was possible in considera-tion of the fact that he was supposed to have his bed and board under his own paternal roof, were kneeling de-murely beside a sma'l rocking-chair, but a battle royal was going on as to

but a battle royal was going on as to who would possess the low seat on which to bow the head of reverence. Little Miss Amanda from across the room, in terror of what might be-fall her favorites at the hands of Miss Tail ner ravortees at the nance or ania Lavinia in a later hour of reckething, was making beseching gestures of alarm, warning and reproof that were entirely inadequate to the sit-uation, which was fast becoming acute, when the two tardy members arrived on the scene of action. It took Rese Mary one second to grasp took Rese Mary one second to grasp the situation, and, motioning Ewert to a chair beside the rocker, she sect-ed herself quickly in the very midst of the scuffle. In a half-second Tob's head was bowed in triumph on the arm of her clair, while the General's was ducked with equal triumph upon her knee as Unice Tucker's sweet veice rose in the first words of his prayer.

(Continued next week)

Two or three slices of lemon eaten after onions will entirely destroy the

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In t Paul we are selves,

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anythi er to We things harm y who m and co do is p sastr the qu ns-old lame is of French d Rose Mary giarized com-or I'll be late u like - wil Rose Mary's ng lashes and e shy glance ould like to ill you hold

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Uncle Tucker le, which was he wide open kled a bit of Tis Bible and ks rested forelock had lown and the and been laid ght white col-low tie. His book before book before e text for the iney sat close to be as near raining from ry great. The silence upon ablic worship vinia only sternest ession, which of her iron

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f lemon eaten y destroy the

***************** The Upward Look The Upward Look

The Supreme Lesson

We then that are strong ought to bear the infirmities of the weak and not to please ourselves.—Rom. 15:1.

In the chapter preceding this ve Paul impresses on us the fact that we are not on earth to live to ourselves, nor are our lives our own for he says "whether we live or die we are the Lord's." The great lesson in these words is that we are here to five for others and help to make their burdens lighter. We are told that if dive for others and help to make their burdens lighter. We are told that if by eating ment we cause our brother to offend, then we should refrain from eating ment. Of course we know this does not mean eating meat for sustenance in the general sense of the term, but rather that we should govern ourselves that we may not do

should we not be willing to do only those things which will not cause our brother to offend, nor put a stumb-ling block in his way? This is surely way that we who are strong can bear the infirmities of the weak.

Another way in which we can help Another way in which we can nep-our weaker brother is by showing our colors at all times and so let him know that we are on the right side. In this way those who might be easily led astray will see that our religion is a nolle one. And we are contin-ually showing what side we are on day by day, although it may be un-consciously. One writer says: "The spirit of Christ in the heart is like a spring in a desert, flowing to re-fresh all and making those who are ready to perish eager to drink of the water of life."

In connecton with the verse we have chosen for discussion Dr. Grenfell says: "The supreme lesson which Christ came to teach was that no man the term, but rather that we should govern curselves that we may not do anything that might cause our broths of the strong ought to bear the burdens of anything that might cause our broths who are all aware that many of us may be able to include in certain things that for curselves would not things that for curselves would not may be able to include in certain others that he icast, but yet others when the icast, but yet others can be able to include in certain others their debt which we do not others their debt which we do not others their debt which we do not other their debt which we d

ome to us only as we pay and in proportion to the amount the pay-ment costs us."-R. M. M.

. . . New Ideas for the Window-

Garden

By John T. Timmons
Those who are always looking for
something out of the ordinary in
plants for home-decoration find a very interesting plant grown from the discarded top of the ordinary

pineapple.

After the top is cut from the fruit, it should be placed in a jar of water with the leaves above the surface, and in a few days fine roots will appear, and in a short time a mass of root growth will have formed, and the foliage will then grow rapidly, forming a graceful plant that resembles some of the palms.

It is one of those old things people like to watch and study carefully as it is developing. Young students in botany will find in this experiment aomething well worth the time required to care for it. A little moss and

something well worth the time required to care for it. A little moss and pebbles might be placed in the jar after the roots form, but it is best to start the roots in clear water. The water can be renewed as evaporation takes place, but entirely fresh water

tractive house-plants admire the palm. There is a great difference in these popular plants, and some of them are rather expensive, owing to rarity or some particular form of foliage, while others that are more com-mon are very reasonable in price. PALMS FROM DATE SEED

A very pretty palm can be grown from the seed of the date. Date-palms are not all slike, and some of the larger dates produce plants with finer foliage than others. It is very finer foliage than others. It is very interesting to watch the development

interesting to watch the development of a date-paim. They are slow in growing, and it takes months to grow a large-spreading palm.

Plant the seed of dates in clean sand, about an inch deep, and keep the sand moist, and in the course of time a sprout will burst from the side of the seed of the same about half-way between the ends of the seed.

the seed

the seed.

The first growth is the root, and later the top growth will start from one side of the root growth. It is a single sharp pointed blade that single sharp pointed blade that makes its appearance through the surface. In a short time the plant should be transplanted into rich sandy soil, in a small pot, and still later, when the plant has made a good growth, it should be given a larger poi, and finally it should have larger poi, and finally it should have have grown enough. takes place, out entirely fresh water is not essential, although it does not a five or six inch pot after have grown enough to begin most lovers of beautiful and at-



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

Steady-Regular-Dependable Quality, there's the FIVE ROSES idea.

No bad dreams bakeday eves - the morning batch "flat" instead of "up."

So very exasperating, you know, to get less loaves this week than last from the same quantities.

FIVE ROSES is the sure flour - reliable,

you see.

No wrinkling worries over bread, or cakes, or pies, or anything.

Bake things always up to the mark of your happy expectations.

Disappointment-never.

Four times Uniform-Strength, Color, Flavor, too, and Yield.

FIVE ROSES-trouble-proof flour.

Use FIVE ROSES always.

Five Roses Flour

Not Bleached



Not Blended

LAKE OF THE WOODS MILLING COMPANY, LIMITED MONTREAL

278

A SLIGHT push starts the tub moving. That's because the Connor Ball Bearing Washer swings on ball bearings. The ball bearings carry the weight of the tubful of clothes. You have nothing heavy to push. You simply give the tub a little swing. It strikes a set of powerful coil springs. They swing it back syrings do nearly all the work.

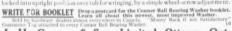
These springs do nearly all the work.

Connor Bearing Washer

is almost automatic—almost runs itself. Just think of the comfort and satisfaction of own-ing a machine that would save you your present washtub drudgery, and do the wash-ing better than you can do it yourself.

Yes! Better than you can do it yourself. Yes! Better than you can do it yourself. The swift action of the powerful coil springs sends a perfect cataract of soapy water swiring and surging through every thread and mesh of the clothes, removing the dirt without any wash-board wear. And in one-third the time. Your time is worth money. The Connor Bail Bearing. Washer will soon save enough hours to pay for Itself-

It's the most convenient washer, too. The handle for swinging the tub, the wringer and the stand adjustment are all operated from one side. You don't have to lift the are all operated from one side. You don't have to lift the cover and put it on the floor to leave a puddle of soapy water. The hinged cover, with slusher attached, when raised rests against the handle of the tub. The sudsand water drain back into the tub. The wringer is thrown forward out of the way when raising cover, or securely locked into upright position over tub for wringing, by a simple wheel-screw adjustment.



J. H. Connor & Son, Limited, Ottawa, Ont.



The Men Who Make Big Ben

About 26 years ago a German clockmaker came from the East to La Salle, Illinois.

His only baggage was an ideaplan of an automatic process he had invented, and which would make more alarm clocks and better alarm clocks than hand labor could ever hope to turn out.

With the backing of some local merchants and with a handful of clockmakers, a small factory was started on the edge of the town. —Beginnings were hard, competition intense. They weathered storms that would have knocked the fight out of weaker hearted men.

But when success at last came in sight they had built one of the best equipped clock plants in the world and one of the greatest names in the

American clock industry-Westelox, La Salle, Illinois.

Today, the Westclox people num-ber 1,200. Every week day of the year they turn out 10,000 alarm clocks—alarm clocks of every description and style - their name and Big Ben is the king of them all.

Big Ben is the ideal of the Westclox people. He is their conception of what a perfect alarm clock should be. He is only two years old, but in this short time 6,000 Canadian dealers have already

adopted him.

Only the finest materials are used in his making—be is strong, massive and punctual. His face
is frank, open, casy to read. His keys big, handy
easy to wind. He rings steadily for five minutes or
internitiently for ten. He calls you every day
any time you say. Hyou have him olled every
other year, there is notelling how long he will last.

Big Ben's price is \$3.00 at any dealer's. If you cannot find him at your dealer's, a money order sent to Westeling, La Salle, Illimots, will bring him to you, carefully packed and express charges paid.

My Flower Garden

Louise Davis Mitchell, Elgin Co., Ont. Many women living on a farm, where space is plentiful and fertiliz-ers the very best and the cheapest, are literally starving for flowers. It seems paradoxical, yet it is entirely

There are many reasons of cours for this state of affairs, but after everything is all summed up, the chief reason is that flower seeds and chief reason is that flower seeds and flower bulbs and flowering shrubs cost money and that on every farm there are chickens and little pigs which are ruthless destroyers of both flower and vegetable gardens. Certainly, there is wire netting, but pigs have little respect for this obstruction, unless it is perfectly stretched, and wire netting costs even more money than

At first glance it would seem absurd that any woman in this prosperous seeds and flowering bu'bs, but the maflowers a luxury that can be dispensed with in the face of more sepensed with in the face of more serious claims, not to speak of the chickens and little pigs. There is the minister's salary, the Ladies' Aid, the missionary funds, both general and auxiliary, the Sunday School, the educational, moral reform, superannuation and various other funds to keep up, besides inciother funds to keep up, besides incidental expuses, and with all these different organizations calling for support, few farmers' wives have anything to spend on flowers, not-withstanding the fact that some of them are starving for the sight of WILD FLOWERS NOT ENOUGH

Truly, our woods and fields are ablaze with wild flowers that may be ours for the gathering, but it is for the more gorgeous, cultivated sorts, whose beautiful faces seem almost human, that the country woman hunnuman, that the country of hearts, down in her heart of hearts. These speak to her of the culture and refinement of another world than hers. What a pity that any woman should go hungry for the pleasure that a few growing plants could give.

I know one woman who is starving for a canna bed; a tropical blaze of color that will carry her away from the cold, blue morning glories and the pale hollyhocks that have struggled and bloomed for many years in the sod by the garden fence. Another is od by the garden fence. hungry for pansies and another for

It seems pitiful that any should stave for pansies, which are as easily grown as turnips. We have had for several years a beautiful pansy bed under the partial shade of an apple tree some little distance from the house, but two years ago I felt as if house, but two years ago I felt as if I would like to start another nearer by So I hunted, from a heap or refuse lumber, a couple of boards about six feet long by six inches in width and a couple of shorter ones of the same width. With these I made a kind of box by staking the ends together in an oblong shape. MY FIRST ATTEMPT, PANSIES

Into this box I shovelled dirt from the chip yard, mixed with a barrow-ful of soil taken from beside the chicken house, where the refuse from the house had lain during the winter. I filled the box level full, patted it I filled the box level full, patted it down and sowed some seeds, gathered from the original bed under the apple tree. The earth was a soft, dark, sandy loam, and the seeds fairly serambled over each other in their mad race to get out of the ground. mad race to get out of the ground.
All the latter part of the summer and
late into the fall until the snow covered it up, my pansy bed was a mass
of bloom. When it began to get cool the pansies were so large that they almost attained the size of "g ants." Having looked at other people's

flower beds and borders for so long flower beds and borders for so long without owning one myself, I deter-mined, when I went "back to the land" to have some flowers, no mat-ter whatever else I did or didn't do. The first season I contented myself The first season I contented myseir with a few annuals, but the next spring I invested something like a dollar in some choice bulbs and seeds.

I was entirely new to the business of floriculture, and I invested un-wisely, in some ways, but my experience was worth a good deal. bulbs, an auratum, a rubrum, and melpomone, one dozen mixed gladiol-us, three packets of Hohenzolleran asters and one of portulaca. The portulaca, the asters and the gladioli rewarded me with a wealth of bloom and, together with nasturtiums and and, together with nasturtiums and my bed of pansies, made a fine show-ing all summer, but my choice lily bulbs did not put in an appearance. INTRUBERS PLAY HAVOC

I was nearly desperate about my Elizabeth and her German Garden, when the author tells of a like ex-perience to mine and of having to wait until the next spring to see them come up. In the spring I looked eagerly and early for my lilies but alas, only one of them showed itself late in May. I was delighted with late in May. that one even though it looked delicate and sickly, but my happiness was short lived, for the little pigs stole in in an unguarded moment and made short work of my precious lily. I have reason to believe since my sad experience with the lilies that I planted them too deeply. In my zeal in following out the instructions giv-



Effective Planting

The possibilities of a few shrubs and trees in the beautifying of the home are well illustrated in the planning around the home of Mr. Hisey, Simose Co., Ont., here illustrated. —Photo by an editor of Farm and Dairy.

en in the bulb catalogue I guess I buried the bulbs instead of planting them.

In the fall I determined to start a perennial border. To this end I spad-ed up a strip of ground about four feet wide and 40 feet in length along the wire fence enclosing the lane. The ordinary wire fence is always an eyesore to me, and I reasonthat a few vines and flowering shrubs here would relieve the un-

sightliness to some extent.

I know that the vast majority of women, either country or town bred, would go into spasms of horror at the thought of actually spading up with sheir own hands 160 square feet of stiff sod, but I did it and enjoyed it. Not only that, but I wheeled well rotted manure from the cow stable and also droppings from the henhouse, giving the whole ribbon of ground a generous covering.

SUCCESSFUL THOUGH INEXPERIENCED I did not go into a study of fertilizers from a scientific standpoint

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though this is a good thing to do if the best results are to be obtained. I find not know the relative values of the first to the first the first to the first to



In a Shaded Place there is Nothing Like Ferns

There is nothing particularly pleasing about a bare red wall. Our illustration shows how Mr. Chriz. Howson, Peterboro Co., Ont., has relieved the bareness of one side of his backyard by planting ferras against the house.

Photo by an editor of Farm and Dairy.

gave me some dwarf blue iris, which I added to my border. But what I divided into a half dozen small bunches. A small root of the old-fashioned rose peony, which had never done well where it stood was also added to my border along with a cuple of small galardia plants which a friend had donated. This which a friend had donated. This was my stock-in-trade from the older garden. To supplement this, I sent to a reliable seed and bulb house for two more peony roots, a "Baron Rothehild" and a "Duchesse do To-leans," at 25 cents each; three hardy philox, a "Coquelicot," a "Pantheon" plants of the plots, a "Gougleicot," a "Pantheon" plants of the property of the proper two more peony roots, a "Baron Rothchild" and a "Duchess de Orleans," at 25 cents each; three hardy phlox, a "Coquelicot," a "Pantheon" and a "Ven Hochburg," getting the three for 50 cents.

Having read about planting seeds of hardy plants in the fall and allow-ing them to lie dormant all winter, I bought a packet of giant pansies at 15 cents, a packet of hibiscus (crimson eye) at 10 cents, a packet of Iceland poppies and one of perennial delphiniums at 10 cents each per

and the next spring my border prov-ed to be something of a disappointment. The snowdrops never came up ment. The showdrops never came up at all. Neither did the pansy seed. Several hibiscus showed themselves, and I succeeded in growing two of them, while only one delicate little delphinium came up and two of the Lecland poppies. The delphinium secondary is the delphinium secondary in the secondary in the secondary is the secondary to the secondary the secondary is the secondary to the secondary the secondary that the secondary is the secondary that the secondary is the secondary that the secondary that the secondary is the secondary that th delphinium came up and two of the Iceland poppies. The delphinium soon died, and later in the season white gruls made an end of the poppies, though they had grown nicely and were in full bloom. The poonies and phlox, however, made a good start, and one of the tiny galaxies grow beautifully, and was a point and the grown beautifully, and was a proper than the grown beautifully. mer until the frost cut it down in the

My border was a sorry looking spec-tacle all the forepart of the summer, but later when the gladiolus of which I had a couple of dozen from the last summer season and a dahlia

four rose bushes.

PIEASED WITH START
I Am well pleased at the start I
have made for the little bit of money
laid out. Another year I will add
danodis and tulips, some hyacinths
maybe and the Japan iras which I
should have had this year only for
the loss of my money last August. I
he will be a mind another rambler
and the start of the loss of my money last august. I
he called in mind another rambler
downonpan, and some choice Childia
Juddivil and when the start of the loss of the l

mial delphiniums at II cents each per packet. I got a dozen snowdrop builbs at a local drug store at 15 builbs at a local drug store at 15 cents more. Though I wanted my border to blossom like the rose. I decided to go slowly and not to spend to great a sum until I found out of the store of

time only add zest to the work.

I grew other flowers besides those in my border, but it is to those that I look for pleasure in the years to come.

When curtain pins have been in use for some time they are apt to become rusty. To remedy this, let them stand for a few minutes in a cup of water to which a little ammonia has been added. Then take out and rub well, and they will look almost like new against almost like new again. . . .

Coffee or cream stains may be re-Coffee or cream stains may be re-moved from delicate silk or woollen fabrics by first of all brushing the stains with glycerine, and then well rinsing them in lukewarm water. But the stain should not be allowed to dry in. Later, press the material on the wrong side with a warm iron.

NO MORE WET OR COLD FEET!

With Health Brand Clogs on, the man r woman who works in the wettest, cold-st places always has warm, dry and com-rtable feet. Try a pair yourself this



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MAIL CON FAG.

STALED TEXTURES, addressed to the Postmaster General in the received at the Postmaster General in the received at the April, 1913, for the conveyance of His Majesty's Mails, on a proposed Contract April, 1913, for the conveyance of His Majesty's Mails, on a proposed Contract, to commence at the pleasure of the Postmaster General. In the pleasure of the Postmaster General in the pleasure of the Postmaster General in the pleasure of the Postmaster General in the pleasure of the Postmaster Majester and Postmaster in the Post Office Office Inspector, Kings McRERICK, Post Office Inspector, Post Office I

Post Office Inspector's Office, 15th February, 1913.



One rub will make it as white as snow

d Dutch

YOUNG MEN FOR PARMS

Arriving February, March, April Apply: BOYS FARMER LEAGUE DRAWER 126 - WINONA, ONT





Co., Ont., and Dairy. guess I planting

to start a nd I spad-bout four in length osing the ence is al-I reasonflowering

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ajority own bred, horror at pading up quare feet nd enjoyed heeled well ow stable the hen-ribbon of the hen-

PERIENCED dy of ferstandpoint



This Engine Runs on Coal Oil

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

The strongest and simplest farm coates made; only three morning is without separetime. Thousands of satisface dustomers use these engines to grind feed, fill silos, saw wood, pump, thresh, run cream separators, and do dozens of other jobs. (Desaper than horses or men. Fill up the tasks and start; if the property of the control of the cont

FREE TRIAL FSR 3s DAYS. You do n't have to take our word for it. We'll send an engine anywhere in Canada on Thirty Days' Free Trial. We trumish full instructions for testing on your work. It it does not suit you send it back at our expense. We pay freight and duty to get it to you and we'll pay to get it had it you don't want it.

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

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



*************** OUR HOME CLUB

"Big Business" on the Farm

What a fine thing it would be if what a fine thing it would be it we could eat our cake and still have it! How it would appeal to some Daddies I have known who always meant to do well by their sons,—but! meant to do well by their sons,—but! when it came to giving them a start —well you know it does hurt to part with that which one has made—even to give it to a son!

The trouble is that too many of our farmers do not make enough. They really have not the wherewith-all to divide with sons.

We need to also for history things.

all to divide with sons.

We need to plan for bigger things
and large businesses, and as "Your
Uncle Henry" wrote some time ago
in Farm and Dairy, have the farms
and all they represent big enough to
enable sons and father to each and



Not so Friendly as They Look

Mary Hales, Peterboro Co., Ont., in Miss Mary Hales, Peterboro Co., Olic., in sending us this photo of her uncle and the wild cat that he has just trapped, tells us that last winter her uncle trapped no less than seven wild cats. We would con-mider that about a record.

all have a big interest right at home. all nave a oig interest page as a same as to me seems possible, to how Daddy "can eat his cake and still keep it,"—give sons a part of his farm and living, and still keep it!—"The Son."

Know Your Neighbors

Know Your Neighbors

Is it true that the average Canadian farmer is unsociable? After milking the when night I strolled down the read shout a half a mile to see a young buil that one of the bosses' neighbors had recently purchased and paid a long figure for. This neighbor was surprised to see me strolling in and said that I was the first human being of the neighborhood that had been on his property in the last three months. This man had recently moved in from another section where it seems neigh-

man had recently moved in from another section where it seems neigh-bors called on one another and he was coven more lonely than he. I remember when reading a synop-sis of the report of Rocs-velt's Coun-try Life Commission, that the state-ment was made that one great thing ment was made that one great thing ment was made that one great thing that was hindering the average Am-erican farmer was his isolation and that this isolation was due in part to his lack of sociability; in short, he stayed at home so steadily that he hardly knew what the rest of the world was doing; and as good rules

BOY SAVED FROM BEING A CRIPPLE By Douglas' Egyptian

Liniment Mr. W. B. Perry, Tamworth, Ont., has a son who owes a good deal to Douglaw Egyptian Liniment, for without it he would certainly have been partially eripel of for life. His father writes:

"My son Marshall had his foot so bally frozen that the doctor said he would have to amputate the toes. The bay eried Comuch that we deelind, to allow the doc-

tor to amputate.

"A friend hearing of the case sent us a bottle of Egyptian Liniment and strong-

a bottle of Egyptian Liniment and strong-ly advised us to trv it before consenting to amputation. We wished if possible to save our son from beins a cripple and used the Liniment. Three days after the first application the frozen flesh dropped off and the boy's foot began to improve and was saved.' The way Egyptian Liniment removes un-healthy matter from frost beautiful and burns and diversity for the control of "So as all druggists, Free sample on re-25c at all druggists. Free sample on re-quest. Douglas & Co., Napanec, Ont.

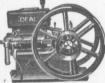
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Government Standard

SEEDS

we buy most of our seeds directly from farmers here who grow them. Reclean them twice. Our guarantee is that if seeds do not satisfy on ar-rival you may ship them back at our

SILVER MINE OATS, 60c bushel SIBERIAN OATS, 60c bushel BANNER OATS, 60c bushel. O. A. C. No. 21 BARLEY, 90c bushel. GOLDEN VINE PEAS, \$2.00 bushel. ALFALFA, imported, \$12.00 bushel. RED CLOVER, \$15.00. ALSIKE, \$15.00 TIMOTHY, \$3.00

Bags, extra cotton 25c, jute 10c. Ask for samples. Cash to accompany order.

The Caledonia Milling Co. CALEDONIA, ONT.

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ute 10c. Ask npany order

lling Co. LTD. NT.

MAIL CONTRACT

SEALED TENDERS, addressed to the Postmaşter General, will be received at Ottawa until Noon, on Friday, the 28th March, 1913. for the conveyance of His Majesty's Malla, on a proposed Contract for four years, six times per week, over Rural Mail Route No. 1, from Byringbrook, Ontanio, to commence at the pleasure of the Youtmaster General.

Printed notices containing further infor-mation as to conditions of proposed Con-tract may be seen and blank forms of Tender may be obtained at the Post Office of Springbrook, and at the office of the Nost Office Inspector, Kingston.

H. MERRICK, Post Office Inspector.

Post Office Inspector's Office, 12th February, 1913

Capable Old Country Domestics

Parties arriving about February 18th and 28th APPLY NOW

The Guild, 71 Drummond St., Montreal and 47 Pembroke St., - Toronto

THIS WASHER MUST PAY FOR ITSELF.

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

Sheer with it, I wanted a fine horse, but, I didn't move any thing a gootst know any the large and t

Address me personally: F. S. MORRIS, Manager, 1900 Washer Co., 357 Yonge St., Toronto, Can. work both ways, the world and even his neighbors did not know what he was doing. This finding I believe has never been successfully contro-verted. Really I can't see that there is much use in living without sociability and it is up to the farmers, hired men and all, to remove this b'ur on their otherwise fair reputation.

tion.

I was much interested in "The Philosopher's" letter on "The Union Church for the Country District." His atggestion is axcellent, but I fear that in some sections at least, the country people see so little of each other that they would never be able to get together and discuss the question. Many reforms will have to be delayed until country people get more sociable. Of course the condition I have described may not be a common one. Resessatessatessates

GRANGE NOTES

นึ่งงงจองจองจองจองจองจองจ Apple Grove Grange, Middlemarch, held its regular meeting on Friday night, Feb. 21st, with a large turn-out and a good program of songs and instrumental music by the



Two Staunch Grangers Mr. Dugal McBane to the left and Rev. Mr. Currie to the right are Elgin Co. Ont., Grange enthusiasts.

ont., Grange enthusiasts.
Grange orchestra under the leadership of Miss Rhea Gooding. Messrs.
Neil Burton, James N. Fletcher and
Selathicl Cursis were elected delegates with the Master and Secretary,
to the Eigin County Grange which
meets in St. Thomas in March. As
the Farmers' Institute meets in the
hall March 5th with lantern slides
and a good array of speakers, the
pianist, Trevor Stincheombe, and aesistant, Miss Hasel Gooding, were
appointed to prepare the musical
part for the occasion.

appointed to prepare the musical part for the occasion.
Dr. J. D. Robinson of Washington,
D. C., a past master of this Grange and son of the late Jabel Robinson, ex-M. P., has presented a very valuable addition to the library, consisting of 12 illustrated volumes of Spafford's historical and literary works. The Grange library is open to all members and is first class in ever respect, there being about 900 every respect, there being about 200 books, all standard works, on its catalogue

After the initiation of four young acter the initiation of four young men, oysters were served in true Grange style under the direction of Messrs. Roy Gilbert, Edgar Miller and Arthur Carrol, assisted by Mes-dames Wardell and Stinchcombe.

Rniny River, whom he had been visiting. Mr. McBane with his wife, also deceased, were done and the second in Legal of this Grange, the second in Legal of this Grange hall was built on the McBane bomested and thus for nearly 40 years he and his family have been active in the work, upholding the principles and never failing in Grange duties. He with his daughter. Miss Mary Bell, elected Pomona of Eig'n County Grange, assisted at its reorganization a year ago from the Division Grange in which he too had held many of its offices in the days of its prosperity and adversity. nad neid many of its offices in the days of its prosperity and adversity. He was a kind father, good neighbor, and staunch Presbyterian. It can be well said of him 'he hath done what he could and hath gone to his reward."

Elgin County Grange will meet in the Court House, St. Thomas, the second week in March. Delegates and members meet at three. Any interested in agriculture are invited to be present at four to hear the addresses. The delegates to the Dominion Grange will give reports.

Mr. J. J. Morrison, Secretary of the Dominion Grange, on returning from a trip to Essex county, writes us that his efforts at organization there have met with great success. Four dormant Granges have started energetically again and in addition an active committee has been formed an active committee has been formed with the following officers: President, Walter C. Anderson, Malden Centre; 1st vice-president, Thos. Taylor, Auld; 2nd vice-president, John Pollard, Harrow, and secretary-treasurer, Thos. H. Adams, Essex.

Mr. W. McCrae, a Granger of Guelph, Ont., writes Farm and Dairy calling attention to an accident that occurred in Toronto recently when a boy was run over by an automóbile and killed and the driver entirely absolved from blame. Mr. McCrae says: "I venture to sav that if a farmer had killed that boy there would have been more noise than there is. One of my neighbors lost the bells of his sleigh and the police caught him and fined him for not having them on, yet he was going to buy the bells. I centend that automobiles should have an alarm continmobiles should have an alarm continmonies should have an atarm contin-ually going as our sleigh be'ls, and when life is taken the slayer should be made to feel the responsibility."

What is Home Without a Garden?

Ed. Lane, Woterloo Co., Ont.
Much has been written in past
numbers of Farm and Dairy about
the "Farmers Orchard" but very little about the "Farmers Garden." The one is as necessary as the other, only in a different sense.

in a different sense.

We have heard a great deal about
the young people leaving the country for the towns and cities. Is it
not because they, when they go to
town, see so many things which are
more attractive to them than what
they have at home: for instance,
when they go to a friend's house, or

""" ware he given at an hotel for a dire. it may be stop at an hotel for a din-ner, they find delicacies on the table which they never get at home and which they never get at home and they find that townspeople have them every day. It makes them feel tired of the farm. This desire to leave the farm would not reach them if they were accustomed to get these delicacies at home. And these they

men, oysters were served in true delicacies at home. And those they frange style under the direction of Messrs. Roy Gilbert, Edgar Miller and Arthur Carrol, assisted by deames Wardell and Stinchcombe.

Forest Rose Grange has been called upon to suffer a severe lose in the death of Mr. Dugall MeBane at the residence of his son, Dr. D. McBane, the residence of his son, Dr. D. McBane, the nature, the control of the cover man is often to the cover man is often and the cover man is often and the cover man is of the cover man is often and the cover man is of the cover man is often and th



the younger one are apt to show them too. The model illustrated includes them both in a simple, gritish form.
The blouse is blown in a blow in the blowse in the blow length and a most attractive a nd unusual collar. The skirt is closed at the right under the panier. The skirt consists of two pieces and the panier of two.

For the 14 year size, the blowse and panier includes them both in

material 27, 31-24 yards & .212 yards & .212

CUTAWAY OR STRAIGHT COAT FOR MISSES AND SMALL WOMEN, 7633



Both young girls and the small wo-men who find youth-ful styles becoming will be sure to welcome this coat. There are fronts and sideare fronts and side-fronts, backs and and side-backs and the seams provide both easy fit and becom-ing lines. The sleeves are the regu-lation sort in two pieces each.

For the 16 year size the coat will require the coat will require
4 3-4 yards of material 27, 3 3-8 yards
36 or 2 3-4 yards 44
inches wide with 1-2
yard 27 inches wide
for the collar and cuffs.

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

TWO-PIECE SKIRT WITH DRAPERY, 7622



Draped skirts are always graceful and attractive. The newest ones are exceptionally lovely and this one is among the best. The foundation skirt is a simple one cut in two pieces and the drappry is made in two. Embrodered and the drappry always and the drappry always and the drappry and the state of th

and beaded note are greatly in vogne and would make exceedingly handson exceedingly handson exceedingly handson exceedingly handson exceedingly handson exceedingly handson exceeding the handson exce

This pattern is cut in sizes from 22 to

. . .

Farm and Dairy is a most interesting and instructive farm journal, and I shall do my utmost to secure new subscribers in this vicinity.—Lillian G. Crummy, Leeds Co., Ont.

F

Ste

The Gospel of Efficiency

HOW IT IS PREACHED TO AND PRACTICED BY CANADIANS

FIFTEEN years ago the word "efficiency" held the same place in the Dictionary that it does today, but in the popular mind it was a somewhat ordinary word used for describing the attributes of a certain engine, tool or perhaps a remedy of some kind-all inanimate

things.

At that time the watchwords of the ambitious Canadian were "Initiative" and "Hustle," and with these he whipped himself into superlative effort, until he found that he was fast losing the ability to keep himself up to "concert pitch"—he no longer responded to the whip—something serious had happened.

Truth was he had lost his efficiency. Thus did the word Efficiency assume a new and great import among men and women alike, for without it we can have neither initiative, hustle or ability to keep pace with the business and social requirements of the twentieth century.

How to obtain and maintain the highest degree of Efficiency is partly the purpose of this article.

The great study with us now should be how to keep well and efficient while we are about, rather than how to get well and efficient after we are ill—as a matter of fact, in this connection, those of us who consider ourselves well and strong are not consistently more than fifty per cent. efficient.

We may be able to get about and do our daily tasks with more or less satisfaction to ourselves, and without undue exhaustion, but that is not by any means one hundred per cent. of efficiency.

If our brains are clear, our intellects bright, and our condition such as to put enthusiasm and "ginger" as well as clear judgment into our work, we have a tremendous advantage over those who are half the time depressed, blue, and all the time nervously fearful that their judgment may be wrong—who lack the confidence that comes with perfect efficiency, and makes so much for succiency, and makes so much for succiency.

But most of us are in the latter class, if we analyze our feeling, and for a very good reason.

Nature is constantly demanding one thing of us which, under our present mode of living and eating, it is impossible for us to give—that is, a constant care of our diet, and enough consistent physical work or exercise to eliminate all waste from the system.

Nature has constructed us for a certain physical "speed" as it were. If you construct an engine for a certain part of the speed, it closs up and gets "wheesy at the joints" and needs frequent attention and assistance to operate satisfactorily—just so with the human body.

If our work is mostly mental, or confining, as it is in almost every instance, and our physical body runs at quarter speed or less, our systems cannot throw off the waste except acoording to our activity, and the clogging process immediately sets in.

This waste accumulates in the colon (lower intestine), and is more serious in its effect than is immediately apparent, because it is intensely poisonous, and the blood, circulating through the colon, absorbs these poisons, circulating them through the system and lowering our vitality generally.

That's the reason that biliousness and its kindred complaints make us ill "all over." It is also the reason that this waste, if permitted to remain a little too long, gives the destructive germs, which are always present in the blood, a chance to gain the upperhand, and we are not alone inefficient, but really ill—seriously sometimes if there is a local weakness.

Accumulated waste, for instance, is the direct, immediate and specific cause of Appendicitis.

Now, there have been many preachers of the Gospel of Efficiency, among them men high up in the literary, commercial and professional world, who have tried to teach us to conserve our energies by relaxation, avoidance of worry, haltutal cheerfulness, etc., but this is useless advice when the seat of the trouble is physical first, and mental afterwards.

There have also been many practical men, such as physicians, physical culturists, dietarians, osteopaths, etc., who have done something towards actually removing this waste from the colon, at least for a time.

It remained for a new, rational and perfectly natural process, however, to finally and satisfactorily solve the problem of how to thoroughly eliminate this waste from the colon without strain or unnatural forcing—to keep it sweet and clean forcing—to keep it sweet and clean correspondingly right and keep us correspondingly right and keep us correspondingly right and the poisons which made it, and us, singuish and dull-spirited, and making our entire organism work and act as nature intended it should.

That process is internal bathing with warm water — and it, by the way, now has the unqualified and enthusiastic endorsements of the most enlightened physicians, physical culturists, osteopaths, etc., who have tried it and seen its results.

Heretofore it has been our habit, when we have found, through disagreeable, and sometimes alarming symptoms, that this waste was getting much the better of us, to repair to the drug-shop, and obtain relief through drugging.

This is partly effectual, but there

are several vital reasons why it should not be our practice as compared with internal bathing.

Drugs force nature instead of assisting her—internal bathing assists nature and is just as simple and natural as washing one's hands.

Drugs, being taken through the stomach, sap the vitality of other functions before they reach the colon, which is not called for—internal bathing washes out the colon and reaches nothing else.

To keep the colon consistently clean, drugs must be persisted in, and to be effective the doses must be increased—internal bathing is a consistent treatment, and need never be altered in any way to be continuously effective.

No less an authority than Professor Clark, M.D., of the New York College of Physicians and Surgeons, says: All of our curative agents are poisons, and as a consequence every dose diminishes the patient's vitality.

It is rather remarkable to find, at what would seem so comparatively late a day, so great improvement on the old methods of internal bathing, for in a crude way it has, of course, been practiced for years.

It is probably no more surprising, however, than the tendency on the part of the Medical Profession to depart further and further from the custom of using drugs, and accomplish the same and better results by more natural means; causing less strain on the system and leaving no evil after effects.

Doubtless you, as well as all Canadian men and women, are interested in knowing all that may be learned about Efficiency—about keeping up to "concert pitch," and always feeling bright and confident.

This improved system of internal lathing is naturally a rather difficult subject to write about in detail, but there is a Physician who has made this his the a study and work. He will be a study and work the property of the subject of the subject

It is surprising how little is known by the average person about this subject, which has so great a bearing on the general health and efficiency. My personal experience, and my

My personal experience, and my observation makes me very enthusiastic on internal bathing, for I have seen its results in sickness as well as in health, and I firmly believe that everybody owes it to themselves, if only for the information available, to read this little book by an authority on the subject.

1913.

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AUCTIONEER AND VALUATOR Pedigree Stock Sales are my specialty fany years' successful experience out rom Woodstock, Oxford Co., Ont., quality se to get you astisfaction. Correspond see solicited.— 178 Carlaw Avenus, Tor-nito Ont.

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To the live farmer our Perfect Maple Evaporator and a sugar bush can be made to produce a revenue when it is most needed. With

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Ra Day Sure from us your address and we will show you



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roofing of the kind suitable for the building you have mind, will be sent to you free of charge

Just write on a po ard the word "Roofing." give your name and address, and full particulars will be sent by return

> MetalCo. 253 Stone Road Gal! Ontario

The Question of Thinning

(Continued from page 7) great a load as those in perfect health, while trees making extensive growth may very well be allowed to carry much more than average trees under the same conditions.

By one rule which is practised to some extent the grower sizes up all the conditions and determines how many boxes of fruit the tree should carry. It is a small matter then to determine how many fruits there should be left on the tree.

HOW MUCH TO LEAVE

Another rule which might be taken in connection with the previous one is to thin plums to about two, two and one-half or three inches; peaches, and one-half or three inches; peaches, four to eight, depending on the earli-ness of the variety; pears and apples, five to seven inches apart. In thin ning pears and apples, it is only with early varieties that more than one should be left on any fruit-apur, and with these early varieties part of the crop may be removed in one picking and the balance later. With winter varieties of apples it is a good rule to leave fruit only on each alternate spur, to encourage annual bearing.
On slender twigs and on wood of the past season's growth (where many varieties bear heavily in British Columbia) it is well to thin a greater distance than on strong fruit-spurs in the body of the tree. On the out-side twigs and shoots the fruit will average smaller than on the stouter a close crop of fruit to perfection.

A very important point, well illus-trated by the Yellow Newtown apple. is that the centre apple of the cluster. and not one of the side apples, should remain. The centre blossom of the cluster comes out first; its stem is cluster comes out first; its stem is usually shorter and stockier than those of the outside blessoms, and at the time of thinning the apple is usually much larger than the others and on a shorter stem. The centre apple usually hangs better to the tree, is the typical apple of the rate, is the typical apple of the rate of the stem of the shorter stem is better for nacking and for appear. is better for packing and for appearanco sake

Fruit-spurs vary greatly in size and vitality; the best spurs bear the best fruit; the weaker spurs should be given a chance to develop into strong ones before next year's crop.

THINNING PAYS

In the production of fartey fruit, thinning pays, and pays well. It means much in the assurance of crops of only high-class fruit. It is not likely to be of value unless the orchard is right in the matters of variety. fertility, cultivation, pruning and spraying; it is not likely to give good returns unless the high-class article produced is properly packed and mar-keted by business-like methods. Thin-ning is an essential feature of the new orchard-culture.

It is unlikely that any fruit-grower will thin too much; it is quite certain that most growers will not thin enough. While the average man may know about thinning, he is short the nerve necessary to carry it out. Most of the growers in British Columbia and also in Eastern Canada, have not yet had enough experience to realize the difference in profits on large and small sizes. Those men who see the situation clearly and who recognize the fundamental necessity for adequate thinning should use their influence by getting their neighbors to take it up.

We have never fed flax seed meal to horses. We do feed a little flax and mixed with cots it is real good.— John Gardhouse, York Co., Ont.

BREEDERS' DIRECTORY

Cards under this head inserted at the reaction of the control of t HOLSTEINS—Young stock for sale. Sired by Imperial Pauline De Kol, whose 15 nearest dams average 25.20 lbs. butter in 7 days.—R. W. Walker, Utica, Ont.

POR SALE-2 Sons of King Fayne Segis Clothilde, from R. O. P. cows. Also three Clyde Fillies and 5 Stallions, Yearlings. -R. M. Holtby, Manchester, Ont. FOR TAMWORTH SWINE-Write John W.

CLYDESDALES, Imp. Stallions and Fil-lice. Fresh importations always on hand. Every mare guaranteed in foal. -J. & J. Semple, Milverton, Ont., and Luverne, Minn. U. S. A.

SPECIAL PRICES ON QUANTITIES O. A. C. No. 21 BARLEY, choice plumpseed carefully threshed and not scource. Ten bushel lots, 85 cents. Best cotton bags 25 cents oxtra. Write early and be sure of satisfactors.

H. R. NIXON. - ST. GEORGE, ONT.

Seed, Grain and Potatoes

Siberian Oats, clean and pure, 70c per bus. No. 21 barley, from hand selected seed, absolutely pure, \$1.25 per bus. Em-pire State, Delaware and Satisfaction Potatoes, all from selected registered seed, \$2 per bag. Oash with order, bags free. A. HUTCHINSON, MOUNT FOREST, ONT.



KNOW of farm lands in Ontario, and in the West, too, that are now yielding only 10 to 15 bushels of wheat to the acre.
They used to yield 30 to 40. What a loss to their owners!

I wonder if you have any wheat land that is not doing its duty by you. If so, I strongly advise you to make an application of Harab No. 6 (cereal) Fertilizer, putting it on at the rate of about 300 pounds to the acre.

Progressive Jones Says: "Get More Bushels Per Acre"



will put back into your soil the plant food that continual cropping has taken out. Your worn-out land will become the rich, profit-making soil of former years. And all at a small cost.

Harab Fertilizers are natural Fertilizers. They are manufactured from blood, bones, etc., from the big Harris Slaughter Houses, with the addition of Potash and just enough quick-acting Nitrates and Superphosphates to produce well-balanced Fertilizers, which feed the plant as required and develop it to early maturity in a natural way.



But what you want first is the Fertilizer Booklet issued by the Harris Abattori Co. It gives complete information about choosing the correct Fertilizers for barley, oats, tye and other crops, and the quantities to use. It's a mighty interesting booklet. I know, for Yee read it myself. The Harris people assure me they'll gladly mail you acroy free, it's gladly mail you acroy free. It's grown book you're "A Progressive."

Yours for bigger grain crops Progressive Jones

The Harris Abattoir Co., Limited TORONTO, CANADA



Factory Methods On The Farm

THE modern manufacturer and the modern farmer use strikingly similar business methods. The modern manufacturer is always on the look-out for labor-saving machinery for his factory—machinery that will do the work in less time and at less expense. The modern farmer is also on the watch for labor-saving machinery for his farm.

And of all the labor-saving machinery what can excel the gasoline engine? It saws wood faster than a

Renfrew-Standard

hired man can saw it. It pumps water for the cattle quicker than he can pump it. It shells the corn faster, grinds the feed quicker. It will run the fanning mill and emery wheel for you. It will run the cream separator, the churn, and the washing machine for your wife. If desired, it will furnish the power to light your home or barn with electricity.

A good engine will produce gasolinepower at a fraction of the cost per hour you would pay for man-power. Therefore it is good business to use gasolinepower wherever it is possible to substitute it for man-power. That's what the modern manufacturer would of if he brought his factory methods to the farm.

A good gasoline engine, such as the Renfrew Standard, will soon pay for itself. And it will last for years. It's built to last. It is so perfectly balanced and runs so steadily that it requires no anchoring.

Main bearings are of anti-friction metal. Cylinders are of close-grained semi-steel, like those used in highgrade auto engines.

The carburetor consists of but three parts. Nothing about it to confuse the operator or get out of order. The governor, which is the fly-ball type, like that of a steam engine, permits the speed to be varied while engine is running. And you can start the engine easily without cranking in cold or warm weather.

The Renfrew Standard is the latest and best type of gasoline engine sold in Canada today. A booklet giv-

ing complete description will be mailed promptly on receipt of your name and address. Just drop us a card by next mail. Also ask us about the Gifford 1½ h.p. engine—truly a wonderful little engine.

The Renfrew Machinery Company, Limited

Head Office and Works: Renfrew, Ontario

Agencies Everywhere in Canada

Fertilizers Lowest prices given on best grades of zers. Complete fertilizers, Nitrate of Soda, Potash, Superphosphate, etc. Write us of your needs and ask for prices.

GRAMPSEY & KEILY, DOYFEROMER RD, TORONTO, ONI.



"FARM DAVIES" WAY"

Learn how by writing us for this special booklet
THE WILLIAM DAVIES CO., LTD.
West Toronto
Ontar

To Retain Western Market

continued from page 2)
with their stock they would reap
hand-ome profits. They must realize
hands for the first stock they
hand had been and a much better way. One has to
haul his fruit anyway, and it is little more trouble to take all one has
for sale to some central point on the
railway where one can have laborers
to pack it schooled in grading of
fruit. At such a point one knows
what the inferior fruit will bring for
the canning, evaporsting or cider
companies to manufacture. One
knows that at such a cooperative station the companies' brand is not disgraced by some unprincipled, selfah
person who seeks to gain a few dollars at the expense of losing thouands dollars to the many in the
sales considered that point and knows
that the man who may be cramped for
money could be satisfied better by
borrowing the money from the banks,
upon his werehouse receipts, than he
would by taking all the cash he could
get when the goods have been sold
et when the goods have been sold

get when the goods have been sold on a slaughter market.

The only thing necessary for the producer in Ontario to do to hold his western trade is to compel honesty in grading; edopt a crate enclosing a number of shallow boxes for the smaller fruits, which will admit of their being piled up high in the car without crushing, cooperate in packing at central points with storage buildings to let crop go gradually onto the market in order to keep a market from being overloaded; pack the fruit of keeping varieties in boxes which suit the convenience of the customer, as he can buy to the limit of his money only and no more; and lastly, endeavor to get the fruit onto the market at the ornsumers door in as good condition as possible as the better the condition of the fruit and the better the is satisfied with his purchase the oftener he will buy your

For Next Week.—Reports of the Dairymen's Convention held at Ormstown and Cowansville last week have been received, but owing to lack of space these reports will have to be held over till the next issue of Farm and Dairy. A report of the Munroe & Lawless Holstein sale has also been held over for next week.

Compare the "BISSELL" with other disks

Thousands of Farmers have tested the "Bissell" Disk Harrow in the same field with other makes and found that the "Bissell" HAS THE GREAT-EST CAPACITY.

The plates are the correct shape. They cut, turn and pulverize the soil where others

only scrape the ground and set it on edge.

The "Bissell" Scrapers meet the plates chisel fashion and keep the plates clean. Movable Clod Irons—an exclusive feature—keep the space between the plates clear.

The "Bissell" stays RIGHT

DOWN TO ITS WORK. It won't bind, buckle or hump in the centre no matter how stiff or hard the soil may be. It is built to stand hard usage. The simple method of balancing the driver's weight removes neck weight. It is the Harrow you should know more about

more about.
Write to Dept.R for catalogue with description.

T. E. BISSELL CO., LTD., ELORA, ONT.

TRANSIT Insurance

ORSES and cattle shipped to the Western Provinces or elsewhere can be insured under short term Politeies of 5, 10, 15, 20, 25, 30 days to cover the Railroad transit and a few days after arrival. These policies cover the Owner against loss by Accident or Disease and only cost a few dollars per carload.

Losses are heavy on Live Stock shipments on account of injuries sustained in cars through rough shunting, trampling, car fever, etc. not to mention numerous other causes resulting fatally a day or two after landing at destination. We cover both on board car and after arrival, some other companies do not cover after arrival. Insure with us and get the most for an equal premium. Do not take any chances with others.

All kinds of live stock insurance transacted, Write us for particulars and name and address of nearest agent.

THE GENERAL ANIMALS INSURANCE CO. OF CANADA, 71a ST. JAMES STREET, MONTREAL, QUE.

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Fertilizers on Mangels

G. W. Peacock, Halton Co., Ont.

G. W. Peaceck. Haiton Co., Ont.

I have been using considerable
quantities of commercial fertilizers
during the last four years. My experience may interest other farmers.

In the year 1909 I first used fertilizers and, wishing to see just what
they would do on my mangels I left
part of the field without any fertilizer. The season was dry, but the
fertilized land did not seem to suffer at all from the drough, while
the unfertilized plut was severely afalmost double sent? was that I had
almost double entil was that I had
linst land.

In 1910 I sowed barley on the same.

In 1910 I sowed barley on the same

For mangels I have always used 400 lbs. Acid Phosphate and 130 lbs. Muriate of Potash an acre. and for potates about 350 lbs. of the Phosphate with 150 lbs. Stiphate of Potash. I have never used any Nitrate of Soda, as I always manure heavily and consider that the latter supplies sufficient mitrogen. In applying the facilities. I scatter them broadcast fertilizers I scatter them broadcast on the land in early April, or just as soon as it is possible to do so.

Management of a Farmer's Orchard

(Continued from page 5)
The fertilizer problem is at present much discussed. A farmer may fertilize his orchard by plowing down green crops such as peas, rape, buckwheat and so forth, supple-mented by commercial fertilizers of the proper constituents for or-



Substantial Proof of the Adaptability of South Western Ontario to Corn Growing There were 4,000 exhibits and 650 exhibitors represented at the Pifth Annual Corn Show, held at Windsor two weeks ago. The general view of the exhibits here shown will give one an idea of the interest that the farmers of the three counties, Kent. Essex and Lambton, are taking in this crop.

land, a eding down with clover and chard use. We have not used timethy. The effect of the fertilizers applied in the previous year could be as vet. We spread an application plainly seen on the barley, but on of barnvard manure every other vear account of shortness of help at barries the twan found impossible to the cover crops. We apply the manhandle the crop from both plots separate in the winter months unless the ately. The effect of the fertilizers and is very rolling. We regard wood on the clover was even more notice—able and one could see the difference be secured. land, a eding down with clover and timothy. The effect of the fertilizers applied in the previous year could be plainly seen on the barley, but on account of shortness of help at har-vest time it was found impossible to handle the crop from both plots separ-ately. The effect of the fertilizers on the clover was even more notice-able and one could see the difference to the very line between the plots.

A GOOD THING CONTINUED Since the first trial I have used fertilizers every year on my roots fertilizers every year on my roots and potatoes, afways leaving a small strip without any fertilizer to note the difference, which has every season been very noteable. In the year 1911 the mangels were on the same land as the 'ormer year, only I ran the plote of 1911 at right angies arity unfertilized, so that I had one niese that had never received any. a stip unfertilized, so that I had one piece that had never received any ferturier, and the pl. the stip of the st and the plot, which had never been fertilized, was a very poor fourth. The yield from the main plot, which was fertilized both years, was at the rate of 1,380 bushels per acre, whereas the unfertilized plot only gave 556 bushels. The mangels from the fertilized plot in 1911 were the largest I have ever grown and of the best keeping and feeding quality. My soil is a good medium loam in high condition. condition.

be secured

Spraying must be done with great care and thorou-hness and at the proper times. We make the first approper times. We make the first ap-plication as late as possible in spring before the leaf buds open and while the trees are still dormant. At application we use a solution of lime-sulphur one to nine or 10. Some growers use it as strong as one to seven. The second application we apply after the leaf buds open and apply after the leaf buds open and just before the bloom opens, using a solution of lime-sulphur, one to 35 with two pounds of arsenate of lead added to every 40 gallons of water. The third spray is applied just after the blossoms fall, using the same solution as for the second spray. We would emphasize the necessity of getting this spray on in time, as getting this spray on in time, as extensing this spray on the spray of the spr which to do the work before the calvx begins to close up. After that the work will not have the desired effect. We apply subsequent sprayings in 10 days or two weeks if found necessary. Bad weather conditions may cause scale to develop is this last spraying is neglected. Much of the scale occurring during the past season could have ben avoided by a scason could have ben avoided by a

The principles of orcharding if put into practice in an intelligent manner, will surely give results.

IMPROVE YOUR STOCK It Pays to Clip

The Stewart **Clipping Machine**

\$975

CHICAGO FLEXIBLE SHAFT CO

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TWO CENTS A WORD, CASH WITH ORDER

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

SAMPLE ENGINES AT SPECIAL PRICES. 1½, 3½, and 6 H.P. sizes. They have been only slightly used. They will be been only slightly used. They will be just like new before leaving our factory. Prices and further particulary on request. — The Page Wire Fence Company, Limited, Walkerville, Ont.



"LONDON" Cement Drain Tile Machine Cement Drain Tile Machine
Makes all sizes of tile from 3 to
10 ins. Cement Drain Tile are
here to stay. Large Profits in
ested send for catalogue.
London Concrete Machinery Co., Oppt. B.,
London, Ont. Largest
manufacturers of concrete Machinery in Cnaada.

WOULD YOU LIKE TO HAVE A SPECIAL WRITE-UP

Of your herd in our GREAT DAIRY NO. out April 10? F. R. Mallory, of Frankford, had one in December 5th special; it made him sales over \$2,000 for his Holsteins. Write Farm and Dairy at once for reservation April 10 and complete arrangements.

Free Barn Plans

to any Farmer of good standing by the "LOUDEN" Barn Architect If you are going to build

re-model an old one-tell us your needs. Our special barn architectural department will send you plans FREE.

plans FRRE
No I we are not in the barn building
business, but having been 47 years in
close touch with the farmers needs and
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LOUDEN

connected with Barn Equipments in planning for over 47 years. We pecial study of means to save e labour, and save money

Every up-to-date Farmer should have this Book describes and illustrates the ll line of Louden Hardware socialties for the farm. ou will find it a handy sok of reference.

Write for free copy to-day.

PERFECT BARN EQUIPMENTS The LOUDEN MACHINERY CO. Dept. 52 - GUELPH, Ont.

OXFORD COUNTY, ONT., FARM FOR SALE

90 Acres in heart of the best dairy dis-trict in County of Oxford, Ont., located 1 mile from hustling village, school. mile from nustling village, school, church, post office and general store, blacksmith, grist and saw mill and station. One and one-half miles from 2 cheese and butter-making plants, 3½ miles from condensor; 4 miles from good town, 12 miles from city.

Is miles from city.

Good orchard and splendid young fruit
orchard, splendid barns and outbuildings,
and good house. Farm is well fenced and
tilled, the owner having spent over \$500
in tile drain and foncing in the last 2
years PRICE, \$6,000. Located on good
county-built road. For further particulars
apply BOX 78.

FARM AND DAIRY, PETERBORO, ONT.



REGISTERED AND HIGH GRADE 60 HOLSTEINS

Wednesday, March 12th, at 10 a.m.

14 Head Registered; 3 Cow (roba and 7 young (voice to freshen in March and April; 3 young Heffers; 8 fook Bull, Hillview 8 ir Cornneopia (1828), whose 6 nearest dama severage 7.20 butter in 7 days, 5 of the females are sired by Brookbank Butter Baron, 25%, who has 30 A.R.O. daughters.

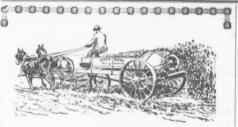
40 Grade Cows and Heifers to calve in early spring. 7 Year-ling Heifers. Pedigrees printed on bills. Sale at farm, 8 miles from Woodstock; 4 from Eastwood G.T.R. TERMS: 6 months' credit or 6% for eash. CHAS. CANFIELD, Prop., Lot 6, Con. 4, E. Oxford Centre P.O.

Auctioneers: Welby Almas, Brantford; A. Siple, Woodstock Wm. Fletcher, Clerk Will meet morning trains at Eastwood

HOLSTEINS -- SELL Your Surplus Pure Bred Holsteins

by advertising them in these columns of Farm and Dairy.

Costs you only \$1.40 per inch. Takes your message to upwards of 16,000 possible intyers.
Farm and Datry will sell your other pure bred stock also.
The possible of the possibl



Your Soil Is Alive

TO all intents and purposes, soil is alive. It breathes, works, rests; it drinks, and, most important Defaulties, works, rests; it GIBAS, and, most important of all, it feeds. It responds to good or bad treatment. It pays its debts, and pays with interest many times compounded. Being alive, to work it must be fed. During the non-growing seasons certain chemical changes take place which make the fertility in the soil available for the next season's crop. But this process adds no soil available for the next season's crop. But this process adds no which crops are grown, unless the soil is fed, in time died to soil on which crops are grown, unless the soil is fed, in time died to soil on which betway to feed your soil. Stable manure, which contains all the essentials of plant life, should be spread evenly and in the proper quantity with an

I H C Manure Spreader

I H C manure spreaders—Cora King or Cloverleaf—are made in all styles and sizes. Sizes run from small, narrow machines for orchard and vineyard spreading, to machine of capacity for large farms. The rear sale is placed well under the control of the core of the core of the country of the core of the country of the core of the country o

The I H C local agent will show you all their good points, and will help you decide on the one that will do your work best. Get literature and full information from him, or, write the nearest

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A. G. HULL & SON. ST. CATHARINES, ONT.

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VANCOUVER. B.C.
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SPOKANE. WASH.
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Proportionate low rates to other points in Arizona. British Golumbia, California, Idaho, Mexico, Montana, Nowada, Oregon, Utah, Washington, etc. From all stations in Ontarjo Ask Grand Trunk Agents for full particulars.

The Grand Trunk Pacific Railway the shortest and quickest route t tween Winnipeg-Saskatoon-Edmonton.

Homeseekers' Excursions TO MANITOBA. SASKATCHEWAN AND ALBERTA

Each Tuesday March to October in-clusive via Chicago and St. Paul

Through coaches and Pullman Tour-ist Sleeping Cars will leave Toronto 11 p.m. on above dates for WINNIPEG. No Change of Cars WINNIPEG AND RETURN EDMONTON AND RETURN Tickets good for 60 days. Proportionate low rates to other points.

Settlers' Excursions

TO ALBERTA AND SASKATCHEWAN March 11th

and every TUESDAY thereafter until APRIL 29th inclusive, from stations in Ontario, Peterboro, Port Hope and West LOW RATES

Through Coaches and Tourist Sleep-ers to WINNIPEG without change, leaving Toronto 11 p.m. on above dates.

Berth Reservations, Literature and Full Information From Any Grand Trunk Agent

WOODSTOCK Never before have Holstein breed such note gotten together in Canada and completed arrangements for a consign-ment sale of such excellent Holsteins as ment sale of such excellent Holsteins as will be in the great Oxford Recoders Sale at at Woodstock, Ont. on Tuesday, March 25. Last week it was the privilege of one of the editors of Farm and Dairy to in-spect practically all of the stock that has been catalogued for this great sale. With-out exception we have never before seen such excellent sattle on this side going such excellent oattle on this side going into a consignment sale to go at the bid-der's own price absolutely without re-serve. We were greatly impressed with the spirit which seems to pervade the Oxford breeders in coming out this time to break all records and to offer stock in their sale, which will be a creditable advertisement for them for time to come. When it is considered that such breeders When it is considered that such breeders of note as exhibitors and records makers as Jas. Rettie, of Norwich; A. E. Hulet, of Norwich; Böde and Schell, Okrowich Christian, and others who are consigning to the sale, are putting in a consigning to the sale, are putting in the consideration of the conside

breeders of real top-notch Holsteins that we have in Ganada; A. E. Hulet, of Nor-wich, well known as a leading successful exhibitor at Toronto and other big fall shows, and also as one of the best feeders and record makers we have amongst our Holstein breeders; Rée & Schell, owners of the Centre and Hillivow farms at Or-ford Centre, where about 398 A.1 Holsteins of richiest breeding are to be found as successful at record making; Jas. Rettic, of Norwich, than whom there is perhase of Norwich, than whom there is perhaps not another breeder of so long standing for success with Holstein cattle as a big exhibitor and a record maker; Bollart & Leuszler, of Tavistock, who some few years ago started into Holstein breeding with a big consignment of most richly bred cattle, which they imported from the State of Michigan: Elias Ruby, of Tavistock, a young breeder who has been coming rapidly to the front, and who has in view his ultimate success and best future to be helped along by the grand good stock he is consigning; T. L. Dunkin, of Norwich, well known in his home disof Norwich, well known in his home dis-trict as having A.1 stock; Martin Mc-Dowell, another young breeder with ex-cellent stock, he having cleaned up some of the best things in the first prizes at the Guelph Winter Fair Dairy Test; H. G. Benfield, of Woodstock, the secretary of the Cha, and who also has his revuof the Club, and who also has his reputation at stake on the stock he is con signing; then there are several others whom we did not have time to call or and inspect their stock, and hence cannot write of them this week.

As may be noted from reading th

wertisement on page 26 of Farm and Dairy this week, the Oxford breeders at their sale are out to do themelves particular credit. Many of the consigners are put-ting in stock for which we believe they can hardly expect to get its full value can hardly expect to get its full value other than at a private sale from a buyer who knows and fully appreciates its full value. The rules under which the sale is being conducted are strict. Everything will be inspected and is guaranteed to be good specimens of the breed, and with udders right. Practically all of the offering are females. Most of them are tested stock with attractive records. tested stock with attractive records. Many of them are show animals, some of them being prize winners. The arrangements at the sale will be as near perfect as it is possible to get them by profiting from their own experience and that of

others at previous sales. Transfers duly flow of the sale was a second of the sale was a second of the sale was a second of the sale. You will want to attend and buy at this sale. Write now to Mr. H. G. Benford was a second of the sale. The sale was a second of the sale was a second of the sale. The sale was a second of the sale was a second of

Are you ready for spring seeding? It's

OXFORD BREEDERS GREAT SALE AT



The mark of quality. Write for booklet THE WILLIAM DAVIES CO., LTD. Commercial Fert, Dept.

Seed Corn For Sale

High germination test. White Cap, ellow Dent. Grown on our own farm.

TISDELLE BROS.,
TILBURY, ONT. . . ESSEX CO.

Farm and Garden SEEDS

Did you ever buy seeds that would not grow? or that would not grow a perfect stand? It will be your own fault this year if you get anything but

Our Seeds Will Grow. We know that ley will grow 80 per cent, and better. We an take this stand because our seeds are

ALL TESTED

Don't take any chances this year on your seds. Send for our Catalogue.

KEITH'S BANNER 35c COLLECTION

One Packet each of the following: Egyptian Beet. Early Jersey Wakefield Cabbage. Flat Dutch Cobbage. Flat Dutch Cobbage Long Green Cucumber. White Tipped Hadish. Big Boston Lettuce. Improved Hubbard Squash. Chalks Jewel Tomato. Chantenay Carrot. Omion Prisetaker. Mixed Nasturtiums. Mixed Sweet Peas.

All for 35c Post Paid

We use only the best seeds in this collection.

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1 Oz. Each Early Egyptian Beet, Chantenay Carrot, Big Boston Lettuce, Prizotaker Onion, White Tipped Radish, Keith's Best Mixed Sweet Peas.

2 Oz Each Butter Beans, Golden Bantam Eurly Corn.

1 Pkt. Each Early Cabbage, Late Cabbage, Citron for preserving, Early Musk Melon, Chalks Joee Early Tomato, Long Green Cucumber, Hubbard Squash, Hollow Crown Parenip.

All for \$1.00 Post Paid We use only the best seeds in this

Our catalogue offers many practical sug-restions, which will be of value to you in our garden and on your farm. Should you not yet have our catalogue, write to-night

We specialize in farm seeds, Alfalfa, ver seed, Timothy seed, Mangel seed, Field Roots, etc., etc., aud also handle a wide range of Poultry Supplies.

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COMP's weather make go ing done to do ar well-810 price th

WICKI be winte selling a stock ar are full. generally have thr ing out ELMIR

and peop firewood spreading and corr carried c judging and the noon, wi second di bacon ho afternoon and Pere good pristrade. H monthly inst., whe will take question.

KIRKW has been ally no s wood, ste Stock is fairly his selling ve being qui sales. A held, som day, exce is appare ing to th Hired hel Butter, 30 toes are 56c; oats, bran, \$21 \$8.25; and

THORN had a ra frosty we are drifte difficult. and oggs are offeri and hogs last two the same ers have good. On Dorset las weeks wei grain are enson we seems to lis offered need it fo

LAMBET

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0., LTD. Sale

ESSEX CO.

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onto, Ont.

Recessessessessessesses_X **OUR FARMERS' CLUB** Correspondence Invited

PRINCE EDWARD ISLAND
PRINCE CO., P. B. L
KENSINGFON, Veb. 24-We have had
snow enough for sleighting. We have had
snow enough for sleighting. We have had
very mild weather with the exception of
one week, which was cold and blowing
hard Cold went into the stable worse
than for years. Beef is 19e by carcase;
pork, 11-1-4e; butter, 25e; hay, loose, 812;
oats, 38e to 48e.—T. G.

OUEBEC

OUEBC

oats, 50c to 40c. T. O. QUEBEC COMPTON Co., QUE. COMPTON Co., QUE. COMPTON Pelo 3r. We are having fine weather now, with use enough snow to make good ro-da. A not dearning as being done, as we have not per loading out well-810. Mill feed is a little lower in price than it has been for some time. Eggs are selling for 25c.—H. G. C. ONTARIO

NORTHON CONTAINO
NORTHON Fob. 84.—Stock appears to be winterion. Bd.—Stock appears to the property of the prope

Bull Calf KING PONTIAC SYLVIA For Sale

PEDIGREE. R. B. No. 15,010, Mais, Born September 20th, 1912, a son of Inka Sylvia DeKel and Prince Hengerveld of the Pornices, who is by the daughters than any other two stars. But breef, and Grandson of Pouliac Korndyke, who has more 20th, daughters than any other two stres. Bit simm a 20th cow wince bed days miking is 60 lbs., this record being made on Interequinters only.

g maio on three quarters only.

Prince Hengerveid of the Pontines
A son of King of the Pontines and
Pleterije Hengerveid Traulein, who is
by the noted Pieterije Hengervoid
by the noted Pieterije Hengervoid
by the noted Pieterije Hengervoid
bred in the blood of De Kol and, Kinz
of the Pontiaca is proving himself to
be one of the very beas sires of the
one of the very beas sires of the
sire of the very beas sires of the
following records: Lady Carmen Spivia
at 3 yrs:

First Cheque for \$100 gets him!

Ring of the Pontiacs
70 A.R.O. daughters
70 A.R.O. daughters
K. P. Medis, 5 yrs., 31.
K. P. Alcartra, 2 yrs., 30.87.
K. P. Manor Kate, 33 mths., 28.10.
K. P. Korndyke, 27.71.
K. P. Lillitt, 2 yrs., 27.86.
35 others with recoords of 20 to 26.68 lbs.

pleartje Hengerveld Fraulien
Sister to the dam of Nudine Lyons De
Kol, 3072.

Kol, 3072.

By a brother to the sires of Prince Hengerveld De Kol, 3362.

Rivers De Kol Sadie, 32.20

12 others above 30 Ba.

Gem Pletertje Hengerveld Paul De Kol 13 A.E.O. daughters. Inka Styluia De Kol, 26. Dutchess Ormsby 2nd Hengerveld De Kol, 21.48 13 A.E.O. sons who are the sires of 127 A.E.O. daughters.

Inka Sylvia, 3 yrs.

Opportunity of a Life-Time

Sir Lyons Henger-Veld Segis

Manor Farm

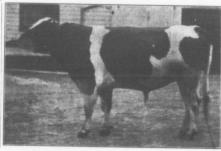
Holsteins Gordon S. Gooderham

Bedford Park - Ont.

Bought as a Calf

for

\$1,500



His Dam Made 33.5 lbs. Butter in 7 days

reading matter for full particulars of breeding).

Holstein Heifers from this Great Bull

WEDNESDAY, MARCH 12th

When I will sell absolutely without reserve 40 Registered Holsteins, including

Nine of his Heifers and five of his Bull Calves

Two years ago four of my neighbors and I went over to New York State and bought, paying \$1,500, a built call? Is him.

Lyons Hengervid Segis-the best that was all went over to New York State and bought, paying \$1,500, a built call. Sir into the splendid individual as shown in the illustration about money could buy. This animal has since developed that the state of th

The stock from this great bull is turning out to be even much better than we had anticipated. It is of great
The stock from this great bull is turning a you will see it at the sale.

The nine beliers and the fivoderbully thrifty as you will see it at the sale.

The nine beliers and the fivoderbully thrifty as you much up to one year) in the sale are out of good dama. Any
one of them will make most excellent buying for you.

Nearly 30 head of the Holsteins of producing ago—all fine individuals—in my herd are

All in Calf to this great Imported Bull

Note the Holstein reading columns of Farm and Dairy this week for particulars of breeding, records, etc.

AMWORTHS

My entire herd of Registered Tamworth swine, brood sows, young-bred sows, stock boars, etc., will also be sold on day of sale. Tamworths

Send now for your catalogue giving full particulars of breeding, etc., and plan to be at my sale and secure what you want of this great stock. Take the Metropolitan Electric Cars from North Toronto (14c fare) and have conductor put you off at Willowdale,

John McKenzie

Willowdale, Ont.

HOLSTEINS

LAKEVIEW HOLSTEINS

We are now testing some of the De Kol, and they are running from 15% law with rest call to 20 law with second call. There are still a few are offering at half their value, in order to make room. They are street on the farm and see the dame of these balls and their dams.

LAKESIDE DAIRY AND STOCK FARM

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

W. P. BELL, BRITTANNIA HEIGHTS, ONT

FOR SALE

Choice Holstein Bull, 19 mes. old; sired by King Fayne Segis Olerhilde, and from Precot De Koil Hengervold, whose dam Bo Koil and Paul Beets De Kol. This bull is large for age, and a first class animal in every respect, and could be casily fitted for show purposes. Price.

S100. JAS, CAMPLIN & SON, UNIONVILLE, ONT Avondale Stock Farm

A. C. HARDY, PROPRIETOR. HERD SIRES

HERD SINES

HERD SINES

Frince Hengerveld Pulls 229 (58.587).

Sine, Princes Hengerveld De Kol,

A. R. O., 33.57.

Highest record daughter of Hengerveld

King Pontine Artis Canada, 18.62 (73.784)

Sire, King of the Pontines.

Dam, Princip Artis, 33.7 lbs. butter 7

days, 1.48 hs. 38 days.

Learn offering buils from these great

sires and high record dams, and also a

limited number of cows in ealf to them.

No before oalf will be sold at any price.

B. LORNE LOGAN, Mgr., BROCKVILLE

MARKET REVIEW AND FORECAST

Toronto, Monday, March J.—Spring trade is fair to good. Dealers who were inclined to take a presimistic view of condi-tions a few weeks ago, now find that orders are coming along more freely. On the whole a normal volume of trade is

There have been few changes on There have been rew changes on the Farmers' Market. Eggs are a little lower and cattle about the same. The most noticeable strength is in small meats, both lambs and hogs being well over the 89 mark. In fact, the price of hogs establishes a new high re WHEAT

Wheat quotations now hinge on the varying climatic conditions in the winter varying elimatic conditions in the winter wheat regions. At present the situation is good, there being lots of moisture in southern regions and a good blanket of snow to protect the crop further north. The crop scare period, however, is just be-ginning, and there is no forecasting the giming, and there is no forceasting the developments of the next few weeks. Prices new are 10e to 12e lower than they were at this time last year, and any great crop seare might be followed by an immediate increase. Foreign demand is satisfactory, Quotations: No. 1 Northern, 97 1.5c; No. 2, 56: No. 3, 526: feed wheat, 66 1.5c; Ontario No. 2, 55c to 56c and down to 70c

COADSE GRAINS COARSE GRAINS
There has been a normal volume of trade moving on the grain cechange at steady prices. The only noticeable change is the peak which are not in as good demand, and quotation have 1000 to 1000 t to soe and shownest, see to see, andereal quotations are: Oats, C.W. No. 2, 4134c; extra No. 1 feed 4012c; peas, No. 2, 81.80; corn, 5834c to 61.4c; barley, malting, 73c to 75s; feed, 52c to 45c buckwheat, 56c to 5834c; rye, 63c to 65c.

Egg prices continue to come down, and many cold storage men stand to lose as many cold storage men stand to lose as receipts of fresh eggs are ever on the in-occase. Quotations on cold storage stock are held firm, but new laid eggs are in an ever increasing supply. Wholesale dealers quote as follows: Cold storage eggs. 150 to 200; fresh eggs, 250; strietly new laid. 250. The retail price on the Farmers' Market is 30c to 35c. At Montreal there is a rood enquiry for eggs. Now as a rood enquiry for eggs. Now provided the contract of th

Dressed poultry is a scarce commodity. Dressed poultry is a scarce commodity, and quotations are steady. Wholesale dealers quote: Live chickens, 12c to 15c, fowl, 12b to 11c; ducks, 12c to 14c; generally consistency of the poultry, 2c to 8 lighter excepting dressed turkers at ALTRY PRODUCE Wholesale dealers are still asking retailers the same quotations on butter that have existed for several weeks Our information is, however, that prices at country points have declined one cent in

country points have declined one cent in the last week, and an easier market is ex-pected here. Dairy prints, 25c to 27c; creamery prints, 25c to 27c; creamery prints, 25c to 25c; choice dairy but-ter retails at 30c to 35c. Choice dairy but-ter retails at 30c to 35c. Choice quotations are: Twins, new, 14.34c to 15c; large, 15c. 11VE STOCE.

The past week has seen a decline in top quotations for export steers. Butchers' cattle and cows were held firmly at the quotations of the previous week. Receipts were fairly good in the early part of the week, and packers were alow to lay in supplies, heree an easier market. Ship supplies, heree are easier market. Ship and the same were shorter during the inter part and are along the property of again firmed up, and cattle were disposed of more quickly. Some dealers are ex-pressing a doubt as to the ability of drovers to lay in a sufficient quantity of choice steers for the Easter trade, but as

HOLSTEINS

Richly Bred out of SIR LYONS

BULLS whose dam and dam full rister each mad 33,5 lbs. butter in 7 day.

Ages from 6 to 18 months. All out of tester dams. Write for selection and price.

-LA

We Bulls eskie of the A a number to

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We h for ser both m

ages. Visit

CA

Also 4-yr old Faforit Posch De Kol,—will se right because many of his daughters are in hero R. F. HICKS, - Newtonbrook (York Ca.) Out

CLOVERLEA HOLSTEINS

CLOVERLEA MOLSTEINS
Herd headed by Rag Apple Korndyke
fith, a double grandson of Pontine
Kordyke, This is the blood that will
Kordyke, This is the blood that will
Kordyke, This is the blood that will
know the blood that w



GLENDALE HOLSTEINS

GLERUMALE RULES ILLING
Entire crop of Purebred Heistein Beil
Caires and a limited number of Heifers,
whose three nearest sires have sirved May.
Echo Syita, over E ibs. butter in 7 days,
cord. Lulk Reyen, 1536 lbs. butter
cord. Lulk Reyen, 1536 lbs. butter
at 4 years (world's record), and
Javel Pet Post De Kol, 336 lbs. butter
at 4 years (world's record). Prices researwered.

WM. A. SHAW, BOX 31, POXBORO, ONT.

Concentrates Linssed Oll-cake Meal. Cotton Seed Corn Meal. "Good Luck Meal. Cotton Seed Corn Meal. "Good Luck Meal. Cutter ford, Testing Feed, Bran. Shorts, etc. Carlonds or small lots. Frices, F. Ols. By hondress. Write for price on quaetily you weat?", RAMPSEY & RELLY, Bassessen. Bs. "RAMPSEY & KELLY, Deverceurt Rd., Toronto, Oct.

Oxford County's Best Holsteins



Some of the Best Breeders of Holsteins in farfamed Oxford County, Ont., and Cattle from some of the best and most noted herds-(including H. Bollert, Bollert and Leuszler, A. E. Hulet, P. D. Ede, Jas. Rettie, and others), will combine to make probably the best sale ever held in Canada, for Holstein

Cattle, the Sale to be under the auspices of THE OXFORD COUNTY HOLSTEIN BREEDERS' CLUB, on TUESDAY. MARCH

Every man in this sale is laying out to do his best to boom our Club and make his stock known as exceedingly high class through this sale. They are contributing of their best. Many of the cattle are much better than most breeders would care to risk selling at auction.

PRACTICALLY ALL FEMALES-IN VALUE UP TO \$700 A HEAD

The breedling of this stock is of the choicest imported and Canadian-bred strains. Mostly all tested stock. Our sale will afford you the opportunity of buying Holstein females from great herds. They will go absolutely at your own price.

Amongst the contributors are: H. G. Benfield, Woodstock; H. Bollert, Tavistock; Bollert & Lewasler, Tavistock; T. L. Dunkin, Norwich, P. D. Ede & W. Schell, Oxford Centre; A. E. Hulet, Norwich, Martin McDowell, Oxford Centre; Jas. Rettle, Norwich; Elias Ruby, Tavistock; A. Walker, Norwich, and others.

Signed Transfers for each animal will be in Secretary's hands before sale day. Everything must be sold to highest bidder. No reserve.

Calalogue gives full particulars and pedigrees

Sale is being conducted under strictest of rules and ponaltice. Everything is right. Much of the stuff is show stock of known and proven capacity at record work. Many of the cows and heifers are such as you could only with difficulty get a price on ordinarily at the breeders' own stables. Some of the cattle should realize as high as \$700 a head on the day of sale.

Write Now for your copy

An Editor of Farm and Dairy, who inspected most of this stock the last week in February, pronounced it to be superior to his most sanguine expectations of it. The stock will set a new mark higher up most difficult for succeeding sales to surpass. All stock must be choice specimens, with udders right. Our inspection is rigid. Cattle are guaranteed.

PLAN TO COME

SALE AT WOODSTOCK H. G. BENFIELD, Woodstock, Ont.

CATALOGUES AND PARTICULARS FROM

P. D. EDE, Oxford Centre President of Association

address with no bors to price. F. G. MA

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NS VELD SEGIS
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1913.

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TEINS Korndyke of Pontiac d that will st of yenr sold. Book-from hightation, Que.

CATTLE iry Breed Battlebere Ve

TEINS Holstein Bull r of Heifers, we sired May er in 7 days, (world's re-in B. O. P. as record), and record), and 10 lbs butter Prices reason romptly ans

KBORO, ONT. eed Oil-cake Cotton Seed Glutten feed, Meal, Dairy Carloadsor We handle the brices. Write L., Toronto, Ost.



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Everyproven as you s' own on the

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50 BULBS PELL COUNT FULL COUNT GUARANTEED Willsend you the Old Homestead Collection of Flower Seeds with bulbs.

MEDFORD NURSERY

FROM EXHIBITION WHITE GGS FROM EXHIBITION WHITE Wyandottes, Regal strain, \$1.50 per 15; (nine chicks guaranteed). Baby Chi.ks, 20c each. 50 Colonies Italian Bees, free from disease, \$5 each.—W. B. Anderson, Rural Route No. 5, Peterboro, Ort.

AYRSHIRES

-LAKESIDE AYRSHIRES

We are offering a number of fine Young Bulis of different ages, sired by "Barch-eakle Cheerful Boy" (Imp.) No. 28,97. Two of them are from dams already entered in the Advanced Register, while the dams of a number of the others are at present un-der test for the Record of Performance.

LAKESIDE FARM, PHILIPSBURG, QUE, QEO, H. MONTGOMERY, Prop. 164 St. James St., Montreal AYRSHIRE BULLS

Of choicest individual merit, sired by Duke of Ayr, the particularly good son (one of of Year), the particularly good son (one of of P. cow (15.55 lbs. milk and 750 hs. butter), and from dams of heavy milking strains. All ages, dister about what age strains. All ages, dister about what age spare a few helfers of fall of 312 birth. W. W. BALLANTYNE & SON, R. B. So. & STRATFORD, ONT.

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, OUR.

AYRSHIRE CATTLE AND YORKSHIRE PIGS ATROHIKE LAILE AND TURNOHIKE FILES
FOr Sale-Ayrahire Calvee and Bulls,
fit for service. Yorkshire Pigs, 85.00
each or, if registered, 85.00. All the
each of the registered, 85.00. All the
in orders now, with instructions re
ablipment later. Apply to
800. W. OWERS, Prop., or ROBERT SINTON, Mas.
Elvestele Parm, Meste Belle, Que.

TROUT RUN AYRSHIRE BULLS INOUT HUN AYESHINE BULLS

I offer four particularly choice Ayrahire Bulls

if for sory ice, all from high record performance
dams, and sired by Biolehouse Pilot (Im. Canadams, and sired by Biolehouse Pilot (Im. Canadams, and sired by Biolehouse Pilot (Im. Canadams, and sired particularly and performance ages, some now freshened others due to freshen
Prices low considering quality. Also one Exhibition pair of large Toulouse Geee \$8\$. B.P.

ROCK Cockersile 32. For particulars write

WILLIAM THORN, Trout Run Stock Farm
L.D. Pamels thouse LYNEDOCH, ONT.

TANGLEWYLD AYRSHIRES

Special offering, Yearling Bull: dam, Prinarose of Tangiuwyld Ind. R. of P. as P. as the Company of the Company of the Company of the Company of Tangiuwyld R. of P. 16,195.50 lbs. milk. (35.8 lbs. fat; sire. Royal Star. Bran. Son of Elleen. R. of P. 1,265 fbs. milk. (55.8 lbs. fat; sire. Royal Star. L. 2015 fbs. milk. (55.8 lbs. fat; sire. Royal Star. Bran. Son of Elleen. R. of P. 1,265 fbs. milk. (55.8 lbs. fat; sire. Royal Star. Bran. Son of Elleen. R. of P. 1,265 fbs. milk. (55.8 lbs. fat). WOODDISSE BROS. - ROTHSAY ONT

MISCELLANEOUS

JERSEYS GOLDEN FERN LAD STRAIN OF HEAVY PRODUCERS We have for sale 4 Yearling Bulls ready for service; 4 Yearling Heifers; Calves, both male and female; and females of all

ages. Visit our herd (44 cows now milking). Write us about Jerseys you want.

D. DUNCAN, DON P.O., ONT.

CATTLE AND SHEEP LABELS

ATHLE AND STREET LABELS

Richard Street Control of Street Control

MAXWELTON FARM

Has some of the BEST JERSEY CATTLE in the land. Also BERKSHIEE SWINE.

Make your wants known to the Manager,

MAXWELTON FARM STE. ANNE DE BELLEVUE, QUE. yet we have no definite information on

yet we have no definite information on the question.

The top price realized on export steers this past week was 86.75, as compared with 87 the week previous. Medium 86.50. Choice butchers as garre, 86 to 86.50. Choice butchers as Choice cows, 85 to 86.50. Choice of the second of t

Milch cows are in increasingly keen demand; that is, choice ones. The inferior kind are not wanted. Choice, \$60 to \$80: common to medium, \$35 to \$60; springers, 850 to 880.

55 to 58.

Lamba are in exoptionally strong demand, and as high as \$9.75 a owt has been realised, but the built of the trade was done around \$8. Other quotations are: Light even, \$6 to \$7.55; heavy, \$4.50 to \$5.90; buchs and culls, \$4.50 to \$5.50.

Hogs are in exceptionally keen demand at record high prices. Packers are quoting \$9.50 on the market and \$9.25 to \$9.20.

MONTREAL BOST PRICE STATES AND ASSESSED ASSESS

1.0.b. Heavy hogs bring \$4.50 to \$8.60.

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AN ERROR IN MANOR FARM ADV. AN ERROR IN MANOR PARM ADV.
A serious error was allowed by our
proof reader in the Manor Farm advertissement in Farm and Dairy last week.
The record of the dam of the calf was
given as 240. This should have been 26.0
lbs. butter in 7 days. The age of May
Echo Sylvia was given as four years 11
months, instead of, as it should read, one
was 11 months, instead of, as it should read, one year 11 months

year II months
This bull calf, born Sept. 20th, 1912,
which Mr. Gooderham is offering, is as
straight as a line and about three quarters black. Any man who is in the marters black. Any man who is in the marters black hay man who is in the marters black hay man who is in the
man who is in the marter of the property of the bull.
Read his pedigree again as given our
rectly in Mr. Gooderham's advertisement
his ware.

WILBUR PROUSE'S HOLSTEINS AT

WILBUR PROUSE'S HOLSTEINS AT AUCTION.
As fine a herd of Holsteins as any breeder could want will come into the market on Good Pridsy, March 21, Ont, will day not he entire herd at auction, as well as sell his horses and other farm stock and complete set of implements; he will also sell his farm of something over 100 acros of most desirable fertile loam soil. There will be 50 head of fertile loam soil. There will be 50 head of the very richest horse including some of the very richest breeding in the country.

Owing to the late hour at which we have received the information about Mr. nave received the information about Mr. Prouse's sale, space is not available to say much about his stock in this issue. Note his ad. on page 38. In next issue a full account will be given and several photographs of his stock taken by an editor of Farm and Dairy last week will be published

he published.
Included in the offering will be Mr.
Prouse's new herd bull, Canada's Pontiae
Korrdyke, a Homonths son, having 67%,
per cent of the blood of that greatest
and most popular of Holetche siares, now
dead, Pontiae Korrdyke. Mr. Prouse has
such as excellent herd and everything in
such fine shape, and he enjoys to such
his community, that it is too had for the
community and for this country that he
has decided to sell. We have the satisfaction, however, of knowing that Mr. Prouse
is taking what promises to be a greater is taking what promises to be a greater opportunity in New York State where he will continue to work with Holstein cat-

tle.
Write to Mr. Prouse for a copy of his catalogue. Watch Farm and Dairy next week for pictures of his stock and full particulars and plan to attend his sale on Good Friday

HOLSTEINS

Lilac Holstein Farm High Testing HOLSTEINS For Sale

Offers young Cows and Yearlings at moderate prices.

W. F. STURGEON

Bellamy Sta., C.P.R. Glen Buell, Ont. SUNNYSIDE AYRSHIRES

('Phone in house.)

Lyndale Holsteins

Offers 3 Young Bulls, it for service, sired by "Prince Hengerveid Pietje" and "King Pontiac Artis, Canada." Good individual, nicely colored. The records of their 3 nearest dams average over 27 has butter each in 7 days. Females, any age. BROWN BROS. . LVN ONT



INKERMAN DAIRY FARM

Offers 10 HEIFERS, rising 1 yr. old. 10 HEIFERS, rising 2 yrs. 6 Bulls, rising 1 yr. old. 20 HEIFERS, rising 1 yr. old. 20 HEI WM. HIGGINSON, INKERMAN, ONT.

Holstein Dispersion Sale Watch Farm and Dairy for big announcement of my dispersion sale.—Horses and Implements, Feb. 28th; Holstein Cattle and Tamwerths on the 12th of March.

J. McKenzie, - Willowdale, Ont.

Alfalfadale Holsteins MIGHAUAIE INJECTION
We offer walso Oalf, born Dee, 1912
Dam has a record of 3837 lbs. milk and
14.60 lbs. are free of the first and the first and
14.60 lbs. are first and the first and the first and
15.00 lbs. are first and the first and th

The Graceland Farm Holsteins Grand dams of King Lyons Hengerveld.
Average nearly 34 lbs. Their best daughters average 32 lbs. V. B. H. (7516) at the head 1911 and 1912. His 2 grand sires have 30-lb. daughters. B. O. P. cows a specialty.

ELIAS RUBY. Tavistock, Ont. CAMPBELLTOWN HOLSTEINS

A few sons of Korndyks Veeman Pontiac for sale. Also a number of Cows and Heifers bred to him. Come to Tillsonburg if you want to buy Hoisteins and I will see that you get them. Farm, North Broad-way, Tillsonburg. way, Tillsonburg.
R. J. KELLY, . TILLSONBURG, ONT.

YOUNG COWS AND HEIFERS

HOLSTEINS of different ages A few Females for mile Calves Ven

W. W. GEORGE, CRAMPTON, ONT. FRED CARR. BOX 115. ST. TEOMAS, ONT.

HOLSTEINS

(37)

LYNDEN HERD

Bulls, fit for service, one a son of Spot-ted Lady De Kol. 27.56, and all sired by a son of Luin Ghaser, 5.77. Also Bull Also any Fennate of a milking age has a price. Write or come and see them. S. LEMON. LYNDEN, ONT.

RIVERVIEW HERD

9 Young Bulla, from 2 to 12 months, sired by King Isabella Walker, whose sister, 3 nearest officially tested dams, a sister of his dam, and two sisters of his sire average for the eight 30.34 lbs. from R. O. M. and R. O. P. dams. P. J. SALLEY, . LACHINE RAPIDS, QUE.

Ourvilla Holstein Herd

Only one son of Dutchland Colantha Sir Abbekerk left. Speak quick if you want him. A dandy from a 24.50-lb 4-year old. Write for pedigree and price. LAIDLAW BROS., AYLMER WEST, ONT

HIGH QUALITY RECORD BULL Priced Right for Quick Sale

Priced Right for Quick Sale
Out of the dam of Lulu Keres. He
has a full sister, untested, and her
owner will not accept less than \$800
owner will not accept less than \$800
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E. B. MALLORY, BELLEVILLE, ONT,
'Phone, BOX 66, R. F. D.

Registered Holsteins FOR SALE!

To make room I offer for sale 15 Heifers, due to freshen in March and April. They are coming 3 years old and are carrying their 2nd calf, after a son of a 29-lb. 5-year-old.

R. CONNELL, R. R. No. 2, SPENCERVILLE Grenville Co., Ont.

GOOD ONES FOR SALE 1. A Young Bull, fit for service, sired by Sara Jowel Hengervice son, and our of dam, Lily and term in 7 days (18.50 lbs. but1. A Young Bull, 10 months old, sired by Bara Jewel Hengervelde son, and out of butter in 7 days, at 1 year 9 months 15 days of age. 1. A Young Hengervelde son, and the service of age. 1. A Young Hengervelde son, and the service of age. 1. A Young Bull, 10 months old, sired by the service of age. 1. A Young Bull, 10 months old, 11 year 9 months 15 days of age.

butter in 7 days, at 1 year 9 months 15 days of age.
Sara Jowel Hengerveld's son's dam, Sara-Jowel Hengerveld, was first own to make over 160 lbs. milk in one day; in official test also produced 212 lbs. butter in 7 test also produced 212 lbs. bu

B. E. HAGERMAN. R. M. D., HAROLD, ONT

Safe in calf to a son of the great buil De Kol the Ind's Butter Boy the 3rd.
Also Yarning Heifers, and Heifer and Buil Calves for spring delivery. Write for prices.

FAIRVIEW FARMS HERD

Offers a splendid son of Rag Apple Korndyke, the young bull we recently sold for 35,000.00, and out of a 24-pound daughter of Pontiao Korndyke (record made at years).

Calf is five months old, nicely marked and straight as a string, and I will sell him. Well worth the money.

WRITE ME FOR PRICE, ETC.

E. H. DOLLAR, Heuvelton, New York (PRESCOTT)

HOLSTEINS

Who will be the lucky one to own son of 20.45-ib. junior 2-year-old? Combines blood of King Segis Paul Beets, King of Pontiace and Pietertje Hengerveld Count De Kol. First check for \$100 takes him.

HET LOO STOCK FARM, VAUDREUIL, QUE. Dr. L. de L. HARWOOD, Proprietor

GORDON H. MANHARD, Manager



(38)

Holsteins

Unreserved Dispersion



Having been offered a good thing to go to N. Y. State, I have decided to sell my Holsteins of richest breeding, also my 100 acre Farm, Horses and other stock, Farm Implements, etc.

"Good Friday," March 21st, 1913

Every Holstein female in my barn, of age possible to be tested, has en given an official record—good substantial ones, too. (See Farm and iry Holstein reading columns). My stock is widely known for being of e correct type, big, straight, quality individuals of great capacity and ong constitutions.

Their breeding is unusually rich, including a grand-daughter of Kin Segis, 3 daughters of imported buil Sir Corinne Houwip, 3 grand-daughters of the Pan-American Sweepetakwe cov. 2 Trixis Belles, grand-daughters of champion cow at Chicago, 3 out of the R. O. M. buil Sir Mercen Abbekerk, etc., etc.

To properly mate these excellent individuals and still further advance the high quality of my herd, I recently purchased

A Son of Pontiac Korndyke

He is 67.5% of the blood of this greatest of Holstein sires, known to Parm and Dairy readers. He is barely 10 mos old, a growthy, masculine individual, and will be a great prize for son no matter what the price.

All of this stock I must now let you have AT YOUR OWN PRICE; 30 head in all, which includes 3 bull calves out of my best cows and the R. O. M. bull Sir Mercena Abbekirk.

Farm also will be sold; includes over 100 acres of best, fertile loam soil, near to condensery (big prices for milk), barn modernly equipped, sfeel stanchlons, coment mangers, etc. Also Horses, Poultry, Pigs, Imple-ments, etc., etc.

Holsteins will be sold at 1.30 p.m. Particulars, Breeding, Recoi etc. given in Catalogue. Write now for your copy. You'll profit well to attend my sale. Watch for illustrations in Farm and Dairy next week.

WILBUR PROUSE, Tillsonburg, Ont.

To the Big Consignment Sale of

MINIMUM PURE BRED HOLSTEINS MINIMUM

TO BE HELD IN THE CITY OF WOODSTOCK

March 25th, 1913

By the Oxford District Holstein Breeders'

Evergreen Stock Farm

Will contribute 10 Head (9 females and 1 male) of its best young stuff



Six 3-year-old Cows, milking and in calf. One 2-year-old Cow, milking and in calf.

One Yearling, fourteen months old. One Heifer Calf, six months old.

One 2-year-old Bull-

These are all Record of Merit Cattle, two of them daughters of Madam Posch Pauline," champion milking 4-year-old of Gan-ada. Milk, 7 d., 600 lbs., butter, 26.73 lbs.; milk, 30 d., 2.732 lbs. butter 108.45 lbs.; two of them 2nd and 3rd prize helfers in dairy test, Quelph, 1912, two of them 2nd and 3rd prize helfers in dairy test, Ottawa, 1913.

Also the ist prize three-year-old cow at London, 1912, and winner of milk test at Woodstock in heifer class, 1912, and her heifer calf by a splendid sire from the famous Arfmann, N. Y.,

We guarantee these cattle to be absolutely right every way.

We believe that no breeder of Holsteins has ever consigned 10 Head of more promising cattle than these.

We don't expect to receive what these cattle are actually worth, but know that a satisfied customer is the best "ad." any breeder

Secure a catalogue from H. G. Benfield, Woodstock, Ont., and attend this sale, which promises to be the cleanest and best conducted Consignment Sale ever held in Canada.

E. HULET NORWICH, ONT.

Our Farmers' Club MIDDLESEX CO. ONT

(Concluded from page 35) cold. This caused a splendid block of ice cold. This caused a splendid block of fee to form, which has been stored away for future use. It turned warmer on the Elst, and the next day we had a thundern bome think it is not been been been been been been about the winter season. Many farmers are drawing manure, in proparation for the coming corn crop, which is to be an extensive one. The tapping of the maple groves is also being prepared for. days grow a hit complished when the syrup near here are more than the syrup near here are the syrup near home lately a dandy centre table. The legs were made out of spools, with a stout wire run through them to keep them in position. The table was home made and very beautiful—J. E. O.

HARROW, Feb. 24—We are having very mild weather. Roads are often quite muddy; no snow. Horses are being ship ped from here quite extensively at good ped from here quite extensively at good prices. Hogs are very scarce, selling at 89, despite the fact of the hog cholera scare. Feed is plentiful, corn and oats selling at low figures compared with last season. A canning factory is likely to be built with some 360 acres of tomatoes under contract the first season. Prices land still continue to advance rapidly W. A. B.

LAMBTON CO., ONT. WYOMING, Feb. 27.—Weather is fine; feed very plentiful. Hogs are \$7.25. Cattle and horsee are in good demand. Sheep are very high and scarce. Money seems about one per cent higher. There is not the volume of business this fine winter that was expected by our merchants. We have now almost every convenience on the farms, yet the population is decreasing.-D. N. A.

BRITISH COLUMBIA RED DEER DIST., ALTA

BRD DEER, Feb. 22.—Owing to continued mild weather the production of milk is increasing. Calgary dealers have dropped the price of milk 2bc a cert, and Edmonton has dropped 3bc a cert. The Laurentia Milk Co. are paying \$2.55 a cert. for all the milk they can get delivered at their factories Presh eggs, 3bc butter, 5bc; live hogs, 7i-4c. Dairy farmens are looking for a successful of the production of the control of the cert loads of Holsenia—T. B. M. RED DEER, Feb. 22.-Owing to conti

MEETING OF DIRECTORS OF C. J. C. C. MEETING OF DIRECTORS OF C.J.C.C.
The directors of the Canadian Jersey
Cattle Club met in the board room of the
Toronto Street Railway on Monday, 764.
24th. The meeting was presided over by
Mr. B. J. Plening. Arrangements were
completed for the publishing of the first
room port important business of the
meeting was to consider the appointment
of a secretary, owing to the vacancy.

meeting was to consider the appointment of a secretary, owing to the vacancy through the resignation of Mr. R. Beid-who has been appointed as agent-general of the British Isles for the Ontario Gov-ernment, with beadquarters at London, Eng. Every member present expressed deep regret at lorsing so black capacity an official as Mr. Beig to a larger field of fact. that seek the seek of the beat of the pre-tained of the seek fact that he is going to a larger field of labor. Mr. Reid has been a very enthus-isatic admirer of the Dairy Queen, and has done much to further the interests of the breed in Canada. After some dis-cussion, Mr. B. A. Bull, Brampton, was appointed secretary-treasurer for the re-mainder of the year.

LATE MR. HUNTER HONORED

The members of the Canadian Ayrahire Breeders' Association at their recent meeting in Montreal honored the memory meeting in Montreal honored the memory of the late Robert Hunter, a former Pre-sident of the Association, by passing a resolution expressing the regret of the Association for the loss its members felt they had sustained in the death of Mr. Hunter, and appreciation of his services to the Association and for Ayrshire cuttle generally. It was decided to publish a notice conscerning Mr. Hunter photograph in the next Annual Report of the Association.

A Royal Warrant has been issued to the manufacturers, of "Molassine Meal," which entitles the Molassine Co. to call themselves Purveyors to the Royal Fam-ily and to use the Royal Arms.

Corn That Will Grow

Money back if not satisfied Send for Price List

J. O. DUKE, RUTHVEN, Ont.

Seed Corn, Barley, Oats FOR SALE

High Grade Seed of Improved Learning Corn. Newmarket Oats from Pedigreed, Annd-selected stock, and O.A. C. No. 22 Barley. Satisfaction assured. Write for samples and prices to W. A. BARNET, Mgr., Gov. Exp. Parm. Harrow, Essex Co., Ont.

FOR SALE SEED CORN THAT WILL GROW

Send for Prices.
P. D. CAMPBELL.
AMHERSTBURG, ESSEX CO., ONT.

Be careful of the oats y seed this spring. Many of the oats were damaged by sprouting last year. These you will not want to sow ; they may not grow.

The very best seed is none too good for you. We have made a specialty of farm seeds ever since 1866. Our stook this year is splendid—the best we have ever had.

It will pay you to get your seed oats from us this year. Send for our esta-logue, and see what we have to offer you in seed oats and all

FARM SEEDS

Also Garden Seeds, Flower Seeds, Field Roots, Al/alfa, Clover Seed, etc.,

Some of our Special Oats are: DAUBENEY. Sample No. I. Grown from hand picked and selected seed. A very fine cample: in 6-bus. lots or over, at 5:25 a bus. (bags free).

Sample No. 2. Not quite so free from barley as asample No. 1. Tests 36 lbs. to the bus. In 6-bus. lots or over 95c a bus. (bage free).

Sample No. 3. Contains a lit-tle more barley, but is very suitable for growing mixed grain, oats and six-rowed bar-ley as they ripen together. In 6-bus, lots or over, 65s per bus. Imported REGENERATED BANNER OATS. Test 42 lbs. per bus. We offer them in 5-bus. lots or over at \$1.30 a bus. (bugs free).

(bags free).

AMERICAN BANNER OATS.
Grow: from Registered seed.
This is a very fine sample of
pure clean grain. Price in 6bus. lots or over, 90c a bus.
(bags free).

(bags free).

SIBERIAN OATS. This is a great Ontario Oat. We have a good stock of selected seed, and offer it in 6-bus. lots at 750 a bus. (bags free).

bus (bags free).

ABUNDANCE. Grown in Ontario from Regenerated Imported Seed. This variety did well all over in Ontario in the "Standing Field Grop" Competition. We have a fine stock. Send for samples. Shus, lots or over, only 76e a bus. (bags free).

GARTON'S BLACK VICTOR.
Splendid sample, tests 39½ lbs.
to bus in 6-bus lots at \$1.00
per bus. (bags free).

VICTORY WHITE OATS. Grov n Svalof, Sweden, \$175 per by in Syalof, i (bags free).

We offer REGISTERED SIBER-IAN and REGISTERED BANNER OATS at \$1.50 per bus. Put up in 2½-bus. bags. We do not break the bags.

Make your receivation early. Send now for samples and catalogue, which tells you all about our other farm seeds, garden seeds, etc.

George Keith & Sons Seed Merchants since 1866

124 King Street E., - Toronto, Ont.

28.53 Broc 2. milk, 21.10 Fran 5y. 1 oqua

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burn 4. 9d.; to 18 on, 1 5. 17d.; to 16 6. 6y. 9. equa Hard

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Spring 1. H at 2y. lbs., e Laidla 2. H 15,390, 10.96

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ons to, Ont. HOLSTEIN OFFICIAL RECORDS FROM JAN. 15TH TO JAN. 21ST

Mature Class Mature Class

1. Leila Queen, 4391, at 9y. 1im. 5d.:
milk, 532.7 lbe.; fat, 22.82 lbe., equal to
28.53 lbe. butter. Owner: A. C. Hardy,
Brockville, Ont.

paisy Deene, 5192, at 8y. 10m. 21d.; k, 465.6 lbs.; fat. 16.88 lbs., equal to 0 lbs. butter. Owner: F. R. Mallory, Frankford, Ont.

Frankford, Ont.

3. Calamity Posch Wayne 2nd, 10.572, at 57. Jm. 13d; milk, 6631 lbs; fat, 1619 lbs, oqual to 202 lbs. butter. Owner: Wabburn Rivers. Folden's Corners. Ont.

10. The State of the State

6. Jennie Mutual Butter Girl, 7060, at 6y 9m. 12d.; milk, 455 lbs.; fat, 13.53 lbs.; equal to 16.92 lbs. butter. Owner: A. O Hardy, Brockville, Ont.

7. Sunny Side Lass, 4853, at 9y. 7m. 18d.; milk, 426 lbs.; fat, 13 60 lbs., equal to 16.88 lbs. butter. Owner: Fred Oarr, St. Thom-

Walburn Rivers. Folden's Corners, Ont.

Calamity Posch Mercena, 9426, at 4y
8m. 21d.; milk, 438.4 lbs.; fat, 14.83 lbs.,
equal to 18.54 lbs. butter.

em. 24d.; milk, 4384 lbs.; fat, 1433 lbs.; cupula to 1284 lbs. hutter. 437, fm. lbd.; cupula to 1284 lbs. hutter. 437, fm. lbd.; cupula to 1284 lbs.; fat, cupul to 1622 lbs. butter. Owner: A. E. Smith & Son, Millgrove, Ont.
Senior Three-Year-Old Class
1. Obothide Maudo Canary, 12255, at 57, 5m. 3d.; milk, 62d. lbs.; fat, 1360 lbs.; cupul to 257 lbs. butter. Owner: Jos. 21, cupula to 257 lbs. butter. Owner: Jos. 2, Queen Anne Teake Lady, 12262, at 37, cm. 3d.; milk, 325 lbs.; fat, 1419 lbs.; cupula to 1749 lbs. butter. Owner: Samuel Lemon, Lynden, Ont.

Junior Three-Year-Old Class
1. Junior Three-Year-Old Class
2, Lawnerear Lee Do KO, 15625, at 37, lm. lawnerear Lee Do KO, 15625, at 37, lm. lawnerear Lee Do KO, 15625, at 38, lm. lawnerear Lee Do KO, 15625, at 37, lm. lawnerear Lee Do KO,

Mallory, Frankford, Ont.
Senior Two-Year-Old Class
1. Duchees Wayne Calamity Ind. 15,534,
at 2y. 10m. 94., milk. 4204 lbs.; fat, 16,62
lbs. equal to 20,78 lbs. butter. Owner:
Walburn Rivers. Folders' Gorners, Ont.
2. Floredi, 14,547, at 3y. 7m. 304. milk.
butter, 14,148 lbs. equal to 17,91 lbs.

Thirty-day record, at 2y. 7m. 30d.; milk, 1,792.5 lbs.; fat, 56.7t lbs., equal to 70.88 lbs. butter. Owner: Thos. E. Pearson, Port Hammond, B. C.

3. Cloverleaf Ruth Tensen De Kol, 15,170, at 2y. 9m. 12d.; milk, 412-7 lbs.; fat, 14.27 lbs., equal to 17.84 lbs. butter. Owner: A.

Kligour, Eglinton, Ont.
7. Mary Abbekerk Mercena, 15,134, at 2y.
9m. 4d.; milk, 385.7 lbs.; fat, 11.56 lbs.,
equal to 1445 lbs. butter. Owner: Theculat to 1445 lbs. butter. Owner: TheS. Nettie Abbekerk, 15,109, at 2y. 6m.
2d.; milk, 270.1 lbs.; fat, 547 lbs., equal to
345 lbs. butter. Owner: M. H. Haier, 10.58 lbs. butter. Springford.

Junior Two-Year-Old Class Junior Two-Year-Old Class

1. Homestead Colantha Pieterrie, 15,268, at 2y. 1m. 3d.; milk, 399.3 ths.; fat, 12.69

lbs., equal to 1576 lbs. butter. Owner: Laidlaw & Bons, Aylmer, Ont.

2. Homestead De Kol Colantha 2nd, 15,390, at 2y. 6m. 9d.; milk, 366.4 lbs.; fst. (94). 1056 ths., equal to 13.70 hs. butter, Own.

or: E. Laidlaw & Sons, Aylmer, Ont.
Boutsle Posch De Boer 2nd, 15,382, at
2y. 0m. 15d.; milk, 294.7 lbs.; fat, 40.46 lbs.,
equal to 13.07 lbs. butter. Owner: Samuel

equal to 13th Pis. Butter Owner: Banuss Lemon, Lynden, Ont.
4. Homewood Johanna Fayne, 18,878, at \$70 s.
5. June 364, in milk, 329 lbs.; fdx, 100 flbs.; these equal to 12.51 lbs. butter. Owner: M. L.
5. Lucila De Boer, 15,588, at 2y. 0m. 11d.; week.

mi.k, 317.1 lbs.; fat, 8.92 lbs., equal to 11.15 lbs. butter. Owner: Samuel Lemon, Lyn-

den, Ont.

6 Honnetead Pauline Abbekerk, 15,387, at 3y, 1m. 5d; milk, 257,3 lbs: fat, 8.66 lbs: equal to 196 lbs. butter. Owner: E. Laidlaw & Sons. Aylmer, Ont.

7. Aagrie Totilla of Riverside, 15,512, at 2y, 6m. 5d; milk, 242,1 lbs; fat, 8.43 lbs. equal to 1954 lbs. butter. Owner: M. Haley, Springford, Ont.

Haley, Springford, Ont.

A. H. TEEPLE'S HOLSTEINS

Fully one-half of the cows and as many of the heifers that Mr. A. H. Teeple, of Fully one-half of the cowe and as many of the heifers that Mr. A. H. Teople, of Currie's Crossing, Ont., is offering for eake on March Lift, as advertised in the issue of March Lift, as advertised in the issue of the Company of the

Mr. Topple has not been buying up cows.
Mr. Topple has not been buying up cows.
for sale. There is nothing of the dealer about him. He is a breeder through and through. All but fit of the control offered in the sale are of his own hasing, and have been bred right and fed right for milk production. The majority of the females will calve in a comparatively short time, so, as Mr. Teple says, to buy one animal is the equivalent to getting two.

ting two. Write Mr. Teeple for his catalogue, which gives full information as to the production and breeding of all the animals offered in the sale, it will be worth the while of the sale, it will be worth the while of the sale, it will be with the while of the sale, which will be held at Shirk's Sale Pavilion. Woodstock, on March itth.

A GREAT IMPORTED BULL

A GREAT IMPORTED BULL

No one knows so well as does the progressive means and the progressive that the dairy size properties of the part that the dairy size properties of the head, because the influence of one chaed a junior bend size that be believed will be hard to beat in Canada, either for breeding or individuality. An either

of the control of the

MAPLE LEAF CANADIAN LINSEED OIL CAKE BRAND



FEED THEM "MAPLE LEAF"

OIL CAKE MEAL

-then the cows will give more and richer milk-the beef cattle will fatten faster and make juicier beef of finer flavor

"Maple Leaf" Oil Cake Meal will put quality into both beef and dairy products. And for quality the old world clamors more and more.

For indoor feeding "Maple Leaf" Oil Cake Meal fits every condition. It can be mixed with any other kind of feed on hand, and is very economical.

And its Fertilizing or Manurial Value must also be remembered. It enriches everything with which it comes

But when you go to buy it, be sure to ask for "MAPLE LEAF" Oil Cake Meal, the kind produced by the Canada Linseed Oil Mills, Ltd., at the big modern Mills in Montreal and Toronto.

Our book "Facts to Feeders" will be mailed free on request

Get "MAPLE LEAF" Oil Cake Meal from your dealer or direct from our mearest Mill.

The Canada Linseed Oil Mills LIMITED

Notre Dame St., East, MONTREAL

Sorauren Ave., TORONTO

MY ENTIRE HERD OF

Richly Bred

Will be Sold Absolutely Without Reserve, at



Public Auction

Shirks Sale Pavilion WOODSTOCK

March 11th, 1913

For 14 years I have been breeding Pure Bred Holsteins of large production. I have recently sold my farm and therefore will sell absolutely without reserve my entire stock.

Including in the offering are 23 Cows with records ranging from 16,800 lbs. for mature cows, down to 6,200 lbs. of milk a year for two-year-old heifers. This stock is deep-bodied, strongly constituted—the very best kind of producers.

Also 9 two-year-old Heifers, yet to freshen 13 Yearling Heifers and Heifer Calves 9 Young Bulls, and my 2 Stock Bulls

The young stock is practically all sired by King Paynes Segis (Iloth13de, whose seven nearest deams have an average production in 7day
13de, whose seven nearest deams have an average production in 7day
13de, was in the day champion butter cow of the world. About half
of days, was in her day champion butter cow of the world. About half
of the cows to be sold are successfully bred to this bull. Balance of
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Send for Catalogue giving full particulars of breeding, terms, etc.

A. H. TEEPLE, CURRIES, Ont.

AUCTIONEERS Col. Welby Almas, Brantford, and Col. A. Siple and Wm. Pullin, Woodstock.

(40)



"I Doubled My Crops"

"I raised 81 bushels of potatoes per acre on my farm with no fertilizer; with a low-grade fertilizer I increased this to 165 bushels, but with my high-grade Potash Fertilizer I brought this yield up to 209 bushels per acre." —G E. Foster, Honeywood, Ont.

"With my ground not fertilized 1 ordinarily raised 6%; bushels of corn: with a low grade fertilizer I increased this to 135 bushels per acre, but with a high-grade Potash Fertilizer I will further increased this to 135 bushels per acre. — D M winter, Thannewile, ont.

"On unfertilized ground I was able to raise only 166 bushels of onions per acre; with a low-grade fertilizer 225 bushels, but with a high-grade Potash Fertilizer I succeeded in raising 366 bushels." — Geo S. Chapman, Lorne Park, Ont.

"On unfertilized ground I raised a crop of 800 lbs of to-bacco per acre; with a low-grade fertilizer, in which no potash was used, 1,000 lbs. per acre, but with a high-grade fertilizer. Loo lbs. of offset of the lbs. of lbs. of the lbs. of lbs. of the lbs. of lb

This is a story that can be told by hundreds of happy farmers in Canada who have used a 10 per cent. POTASH fertilizer. One man in New Brunswick, who ordinarily raised a crop of about 200 bushels of potatoes with a low-grade fertilizer containing less than 10 per cent. POTASH, raised on the same land a crop of 500 bushels of potatoes by using a 10 per cent. POTASH fertilizer.

If you want to do likewise on your farm, you must learn quickly that

"Potash Pays"

Every crop you raise takes from your land just so much Nitrogen, Phosphoric Acid, and POTASH. This is the food the plants eat. You must help Nature put back this plant food into your soil if you wish to raise good crops each rear you probably understand this, and it is likely you use some sort of fertilizer, but if which is because every plant are the times as much POTASH as it does proposed to the proposed proposed and the proposed proposed and the proposed proposed

If YOU want to raise a burner crop this year, do this: Insist that your dealer provide you with a 10% POTASH fertilizer. If he cannot do this, and you have to buy a low-grade fertilizer, add enough POTASH to it to raise it to 10% POTASH. We will tell you exactly how to do this, free. You can mix your own fertilizer at home if you want to, and our experts will tell you how to do this, too, without charge.

Get in touch with your fertilizer dealer NOW, so that he will be sure to have POTASH on hand for you when you need it. Send us your dealer's name and we will send you a free booklet telling how to properly raise the kind of crops you deal in. It is written by some of the very best Agricultural Experts in the world, and will surely be of great interest to you. Simply write us stating your dealer's name, and telling us the kind of crops you raise.

If you want your POTASH now and your dealer has not got it, we will sell it to you direct. Simply let us know your requirements. The main thing to do is to act now. Write us to-day.

GERMAN KALI WORKS INC.

TEMPLE BUILDING

TORONTO, ONTARIO

We have Muriate and Sulphate of POTASH stored ready for immediate shipment at St. John, N.B., Montreal and Toronto