

VOL. XXX.

NUMBER 9

RURALHOME

PETERBORO, ONT.

MARCH 2,

1911.



SPRAYING HAS BECOME A MOST ESSENTIAL PART OF PROFITABLE ORCHARD PRACTICE Experiences of the past year have taught fruit growers as they never knew before that it pays to spray. Most remarkable results were secured from demonstration orchards that were put under approved orchard practice and sprayed. Hundreds of farmers learned last year that it was exceedingly profitable for them to spray even their small orchards numbering but a comparatively few trees. Will you profit from their experience and spray this year? If you do, spray thor-

oughly. Articles in this special issue of Farm and Dairy will tell you how. Mr. R. R. Sloan, Huron Co., Ont., whose spraying outfit is here shown, is one of many apple growers who make big profits from spraying, and who would counsel you to spray, spray, spray

DEVOTED TO

BETTER FARMING AND GANADIAN GOUNTRY LIFE

ORCHARD AND GARDEN NUMBER

WEIGHED BALANCE

Every Separator is "Weighed in the Balance" and most of them are "found wanting." Not so with the "Simplex" Link Blade with the Self-

Balancing Bowl.



of the operator. The oil-drip-pan, between base and body, catches all drainage.

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

Easy Operate

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

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

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

D. Derbyshire & Company

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

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

A BT Litter Carrier and BT Feed Carrier



BT stands for BesT

"Ist Because they will save you more hard and disagreeable work than any other machine you can invest your money in!

ioney in.!

2nd because they are the best machines
made for handling Litter and Feed.

Let us tell you what they will do and
hy they are better. We also build Cow
tanchions, Steel Stalls, Hay Carriers,
orksand Slings.

Beatty Bros., Fergus Ontario

Organized Farmers

A farmers' organization that has some 500,000 members and hundreds of thousands of dollars at its disposal should offer some valuable object lessons to the farmers of Ontario and the East at this time when the best of the dollar of the Child of the National Grange of the United States. Interesting information and the State of Mental of the United States. Interesting information and the National Grange of the United States of the United States, and an officer can be sufficiently of the Child of th of thousands of dollars at its dis-posal should offer some valuable ob-

PROTECT THEIR INTERESTS "As a result of our organization and of the funds at our disposal we are able to not only safeguard our interests in the national capital at Washington, but in our state Legis latures as well. Recently, for in-stance, we felt that the educational authorities of our State were not stance, we left that the educational authorities of our State were not doing as much as they should to promote rural education, so we sent a deputation of our members into Ohio and elsewhere to gather information on this pulset.

and eisewhere to garden and eisewhere to garden and eisewhere to on this subject.

"Our Grange is an excellent kindergarten for our young farmers. dergarten for our young farmers.

They learn to speak through taking particular part They learn to speak through taking part in discussions and reading papers at the local meetings of the local pers at the local meetings of the local grange. Later they are encouraged to address meetings of the surrounding granges. The bear of the granges. The bear of the given opportunities to attend needings of their county as well as of the state grange. In this way our farmers are constantly developing nen who are ready at all times to defend their cause both on the platdefend their cause both on the plat-form and in the press, as well as through our organization.

"Membership in the local Grange "Membership in the local Grange ests \$1.20 a year. Of this sum 19 cents is turned over to the State Grange and four cents to the National Grange. In this way our whole organization is well financed.

THE PRINCIPAL WORK

"While as an organization we devote considerable attention to matters that are political in nature, the great work we perform is really educational and social in character. The chief benefit of our work lies in the fact that it brings neighbors into closer contact and leads them to closer contact and leads them to become better acquainted. Were it become better acquainted. Were it to closer contact and reads become better acquainted. Were it not for our educationl and social features, the grange in the United States would not have lasted through

States would not have lasted through all the years as it has.

We have some farmers' clubs as "We have some farmers' institutes, but well as some farmers' institutes, but well as some farmers' organization. The chief defect of the farmers' clubs is that while it is easy to join them, it is also easy for men to drop out as members. Having no memberahip fee to speak of, they have no funds with which to carry on no funds with which to carry on no funds with which to carry on a fefective work. Instead of competing with the farmers' institutes, the grange really helps them, as we always find that the Lest meetings of ways find that the Lest meetings of ways find that the Lest meetings of the state of th ways and that the less meetings of the institute are those that are held where there are local granges, as the granges take hold and help to advertise the meetings.

"Through the Michigan State Grange, we conduct fire and life in-"Through the Michigan State Grange, we conduct fire and life insurance companies. Insurance is given at very low range. The same with the same

There are some 80 There are some 80 granges in Ontario, with about 2,000 members. It is time more were organized.

Veterinary Legislation

A bill, respecting Veterinary Surgeons, which has been given its first reading in the Dario Legislature, affords protection to duly qualified veterinary surgeons. When this bill is finally passed the "quaeks" and "fakirs," who now pose as veterinary surgeons will incur a penalty for wrong-fully assuming the title of veterinary surgeons will incur a penalty for wrong-fully assuming the title of veterinary surgeons.

surgeons.

The clause in the Bill cevering this point reads: Any person not passessing a diploma or proper certificates from The Ontario Veterinar Coulege or a diploma or certificate of a cellege whose diplomas or certificates are deduced by the Lightness of Council Cou whose diplomas or certificates are de-clared by the Lieutenant-Governor in Council to entitle the holters thereof to use the title of Vernary Sur-geon who appends to his man the term veterinary surgeon, or man the term veterinary surgeon, or man the term veterinary surgeon, or man the previation or description implying the breviation or description implying or calculated to lead people to infer that he is, or is recegnized by law as a veterinary surgeon, within the meaning of this Act, or that he possesses a diploma or certificate from any such college, shall incur a penalty not exceeding \$100 and not less than \$25.

Items of Interest

The Prince Edward Island Provin-The Prince Edward Island Provincial Seed Fair will be held at Summerside on March 8, 9, and 10. Many thousands of bushels of grain will be disposed of at this fair, and farmers will have an excellent opportunity of getting good seed grain.

An agricultural motor competition will be made a feature of the Canadian Industrial Exhibition to be held at Winnipeg, July 5th to 22nd, 1911. A copy of the rules and regulations governing this competition may be had on application to A. W. Bell, Winnipeg, Man.

The new appropriation in the ostimates recently brought down in the
Ontario Legislature provides for five
additional High School Technique
Bistrict Representatives. Official in
formation as to where these men will
be located has not yet been given
out. Many applications have been
received by the Department, and
others are said to be on the way.

A short course in apiculture for students and ex-students who have taken apiculture lectures, but desire more practical and advanced scientific work, will be given at the Ontario Agricultural College, Guelph, May 1st to 6th. This course will put students in the way of becoming trained apinary instructors. All instructors of apiculture and sil beckeepers interested in the forul brood problem are asked to make it a point to be there for the Thursday conference at least. A short course in apiculture for

Iss Each

Vol. XX

Better Ave work

that we thing to mark mig per cent i cent. perf The on considerat

feel like

emphasis i at no time us as muel ing all the in cultiva and sprayi matter of seem to ha as is pessi know, hew chard pack cent. of str fruit have very scarce Proper th toe us mo

GREAT RETU Such av been attain countries: gotten here thermore, 1 out that no ation will lator and c Let us take frem a well 800 barrels, worth \$3.00 a bushel. I

per cent. No

cent culle

ning as high

95 per cent.

, 1911.

an State rance rength

e a state prices on At one cents on the savne-half a effe. the pt. range re-t 1½ per d in this It has year in

s in On-bers. It

its first ture, af-fied vet. s bill is ary surwrong-terinary ing this

possess-rtificate College are de rnor in thereof y Sur-me the my ab

ying or er that w as a meanossesses by such not ex-\$25.

rovin-Sumgrain r, and it opgrain etition

n will given

and y. for have cien-On-elph, l put ming l in-

bee rood point

Bell,

anad-held 1911. ations

n the r five s and al in-

Farmers benefit of embers of

Each Week Vol. XXX

FOR WEEK ENDING MARCH 2, 1911.

No. o

Only \$1.00

a Year

HOW TO ENSURE A 90 PER CENT. SALEABLE APPLE CROP

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

Better Averages Than 90 Per Cent. Have Been Secured - Work That Returns Over 300 Per Cent. on Labor Expended-Incidentally it Ensures an Annual Load of Apples.

T has been asked of me how I would go to work in order to secure annual crops of apples, ninety per cent. of which will grade

No. 1. When one reflects that, taken one year with another, the apple crop of Ontario grades probably less than 20 per cent. first class-and when one remembers, too, that a large percentage of our orchards bear full crops not more than two or three years out of fivethis seems rather a large order. However, it is a good thing to

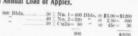
have our attention drawn to the possibilities of our business J. W. Crow

so that we will have something to work for. The mark might be set at 100 per cent instead of 90 per cent. perfect.

The one point in this consideration on which I feel like placing special emphasis is one which has at no time received with us as much attention as it deserves. Many are doing all that can be done in cultivating, pruning, and spraying; even in the matter of fertilizing some seem to have gone as far as is possible. Yet we know, however, that orchard packing out 75 per cent, of strictly first class fruit have hitherto been very scarce in Ontario. Proper thinning would toe us many crops running as high as 90 or even 95 per cent. perfect fruit. GREAT RETURNS FOR LABOR

Such averages have been attained in other countries; they can be gotten here. And, furthermore, let me point out that no orchard oper-

ation will make a better return on the lator and capital invested than will thinning. Let us take a case in point. An average crop frem a well cared for 10-acre orchard would be 800 barrels, including culls. Suppose No. 1 are worth \$3.00 a bbl.; No. 2, \$2.50; and culls, 15c. a bushel. Let us say this orchard will run 50 per cent. No. 1, 40 per cent. No. 2, and 10 per cent. culls. We have therefore:



FARMAND DAIRY

RURAL HOME

Let us thin this orchard and find out if it pays:

Increased Value Due to Thinning..... = \$324

As to the cost of doing the work, it may be said that five cents a barrel will cover most cases. Some growers in Ontario have kept within that figure, and in New York State and other districts this amount is said to represent the

these figures can be not only equalled but actually exceeded. Let our expert orchardists examine them, and if fault can be found I shall Le pleased to see them discussed in the cclumns of Farm and Dairy.

RESULTS THAT COUNT

The best argument for thinning is the results. If Farm and Dairy readers could see some of the Pacific slope orchards, just before picking time, they would at once be convinced. I have walked through orchards in which it was practically impossible to find a cull apple-no worms, no scab, no small or poorly colored specimens-none but the best specimens are allowed to remain, and in many instances our standard of 90 per cent. perfect has been considerably exceeded. Some crops have been harvested that graded 95 and even 98 per cent. strictly first

INSURES ANNUAL CROPS

And then, too. there are other points to be considered. Not only is it possible to vastly improve the grade of fruit, but it is also possible by thinning to assist materially in secur-

ing annual crops. To thin properly, a definite number of apples should be decided upon for each tree, according to size and variety. A tree should not be allowed to bear more apples than it can bring to full size. If more than that number are left the average size is reduced without increasing the actual bulk of fruit, and in addition the energies of the tree are exhausted. It must Le remembered that a tree aims, so te speak, at producing seeds, not fruit, and five barrels of small apples are produced at much greater cost to the tree than five barrels of large ones. If overbearing is prevented the tree can be expected to bear again the following season. As a matter of actual fact, the securing of annual crops is simply a matter of nourishing the tree properly and then preventing the exhaustion caused by overbear-



A Tree with a Splendid Load, But What of it the Next Year? This 11-year-old apple tree is loaded beyond the limit of safety. It would have paid to have thinned the fruit on the tree. Read Professor Crow's article adjoining, which gives some exceedingly interesting information about thinning apples.

actual cost of doing the work. Double this amount of cost of you like and we have \$80.00 as the outside cost of thinning an 800 barrel crop. The sum of \$80.00 subtracted from \$324.00 leaves \$244.00 as the actual profit from thinning. Where can you invest to better advantage? Three hundred per cent. on your money is "good enough for a farmer."

I am firmly convinced that in many cases

PRUNING DOES NOT SUFFICE

Pruning is one method of thinning, and correct pruning aims at securing an even distribution of bearing wood

throughout the entire tree. This frequently means the severe thinning out of small tranches and improves the grade of fruit, first, by increasing the size through reducing the number, and second, by admitting light to all parts of the tree in sufficient quantity to cause proper coloring. But thinning can not stop with pruning. Even after a tree is correctly pruned there may be, and usually are, too many fruits,

and these require to be still further reduced in

It is customary to wait until after the June drop before thinning, but this is not at all necessary. If thinning is done early there will be no "June drop," as the tree will not find it necessary to shed part of its crop in order to bring the balance to maturity.

AN OPERATION LIKE UNTO PICKING

Thinning is essentially the same operation as picking. A tree should be worked over just as in picking, using ladders where necessary to reach upper branches. No fruits should be allowed to remain so close together that when full grown they will touch each other, nor should they be allowed to remain in such positions that they will later rub against a limb or twig. A heavily laden tree can afford to lose two-thirds of its crop for fully as many barrels will be secured at harvest time, and those remaining can be handled at picking and packing time at much reduced expense.

The saving in time of picking alone will pay the cost of thinning.

Many grewers use a light, long-bladed snipper for thinning; this is to be recommended, as it is not easy to reduce a cluster of apples to one in the ordinary way without causing injury to the stem of the remaining apple. All clusters should be reduced to one fruit each and specimens should be spaced not less than four to six inches apart.

PULL OFF PLENTY

Very few men have the nerve to take off enough. Get your neighbor, or your worst enemy, to show you how, as they will be much more likely to remove a sufficient number than you will, at the first attempt at any rate. All small, deformed, or defective fruits should be removed, and the specimens left should be as uniform in size as possible. Ordinarily, it is not necessary to do other than simply drop the apples to the ground.

Thinning should start as soon as the apples reach the size of hickory nuts and may be continued as long as the fruit centinues to grow, but the earlier the work can be done the better.

I find, Mr. Editor, that I am not able at this writing to say all I had in mind on this subject. I have so far failed to mention cultivation, fertilizing and spraying, but shall contribute further on this subject for your columns.

Grafting Fruit Trees

G. N. Gordon McKeen, Annapolis Co., N.S. In getting ready for the spring grafting, the first step to take is to consider the markets we expect cur grafted fruit to go to. If we are preparing to ship our fruits to the Old Country, we should get an apple report from there and see what varieties lead in price and, if those varieties will do well in our locality, get them. If, on the other hand, we prefer a seft variety for the local market, get the kind most sought after in that market.

Having decided on the varieties, while the trees are in a dormant state, cut the scions, only cutting the growth of last year. After cutting, label them and roll in damp mess or bury in sand in the cellar and have them ready.

At any leisure time you can get the material and prepare your grafting wax. The following is as good as any: One pound of tallow, three pounds of beeswax, four pounds of resin. Melt the resin, and then add the others, and when ready to use warm and apply with a small Lrush.

When spring opens and the green is showing in the ends of the twigs, is a very good time to begin operations. Take a keen-edged knife and a fine-tcothed saw, also an iron or hardwood wedge (a narrow one.) Cut off the limb,

and see that it is a healthy one, and insert the

I plan to have a number of grafts cut in advance and in cutting them leave two buds beside the one that is to go into the clet as I find the root of the bud a valuable aid to growth. Make the graft wedge-shaped, leaving the outside slightly thicker so that the edges to unite will be the firmest. Then, having put in two (if the limb is large enough) carefully withdraw the wedge. After having done a dozen or more limbs, take your brush and apply the warm mixture. See that every part even the top of the graft is covered and in two or three years, if your operations have been successful you should find some fruit.

How to Prune the Orchard

John Spencer, St. Johns District, Que.

There is not one man in 10 that knows how to prune an orchard. The best time to prune is when the sap is done running, say, in June or the first of July, as the wood of the tree is then growing. Leave no stubs on the trunks of the trees. Keep the top open to let the sun in. Cut out all suckers and branches that spread over. [Note.-What is the opinion of others respecting best time to prune?-Editor.]

Some men cut off all the lower limbs. They claim that it gives a chance to get around better but they have a tall tree 20 feet or more from the ground. What are apples good for that fall on the ground from such trees? Perhaps they can grade them No. 1; I cannot.

Low trees are preferable to high. You can pick and spray to better advantage. Trees have different habits of growth, and cannot be pruned by rule.

Orchard Fertilizer.-There is no Letter fertilizer for the orchard than barn yard manure. I have used commercial fertilizers also. Lately I have been using wood ashes. The color of the fruit and the growth of the tree induced by wood ashes is remarkable. In the Niagara district they will pay 25 cents a bushel for good



A Great Mistake Was Made With These Trees

None of the trees in this orchard in Northumbers and Co. were under 4 ft., 5 in., and most of them branch. On the lowest pranch. On the ground to the lowest pranch. Our ledding to the ground to the lowest pranch. Our ledding to the ground trees not over 18 inches from the grounds proper trees not over 18 inches from the grounds applied trees right at the ground. Farm and Dairy Issues.

wood ashes. Potash supplied in the form of the muriate or the sulphate is much more expensive than when supplied as wood ashes .- J. W. Clark, Brant Co., Ont.

Planting Blackberries

John Ferguson, Kent Co., N.B.

To best understand blackberry culture, it musbe known in the first place that the canes of blackberries are only biennial; that is, canes are produced one year, bear fruit the next, and the die. There is no such thing as two-year-olplants (as with trees and vines) when we refer to the stems, though the roots may remain alive and growing for several years. One-year-old plant-are used for transplanting ia all cases.

It is considered best to plant in rows and then restrict the plants to hills. The rows should be four or five feet apart according to the variety to be cultivated, and the plants two feet apart in the ws. Be sure that the plants have small fibrou



Might Have Been Headed Still Lower

tree has been headed at about 2 ft., 6 in. It have been better to have been headed even In order to get low headed trees one must-even-old trees from the nursery and then them at the distance from the ground desired.

riots and do not set them any deeper than they were before removal. Cut the canes of these plants down nearly to the surface of the soil, because if not cut they will take away from the strength of the root in forcing growth. The whole strength of the root is required the first season to produce canes, as upon this growth will depend the fruit of the next year.

The weeds should be kept down and the soil level, as the blackberry plant should never be banked up. There must be clean cultivation or the fruit-bearing canes and those for the following season will suffer from lack of moisture

Planting Peach Trees

W. E. Corman, Wentworth Co., Ont.

When planting peach trees, see that the point where the bud has been inserted is below ground. In this locality, slant the trees well to the southwest. Cut off from 18 to 20 inches above the ground. Trim to one bud on the north and east sides and on the south and west sides leave two or three buds; in that way, you wid have a chance to see which are the healthic buds to form branches as the trees grow.

Each year trim out one-third and head back one-third to one-half. Remember to trim the heaviest on the north and east sides. Do not allow the trees to get a slant to the north and east, as it will allow the sun to beam on the trunk and in a short time it will ruin the trees.

Do not allow your trees to get over 12 feet high. By keeping them low you will prevent them being split by the ice storms or being broken down by everloading.

Decide now what trees in your orchard grow undesirable fruit and determine to graft them over with some suitable variety. If you want a particular kind you have not got, secure some scions from someone who has .- J. A. Moore, Queens Cc., P.E.I.

A 90% d

Ma

in the tacks the th of the learn l That t withou demons impart doubt

United

gressiv

in the

Spraying An e medium orehard

Moreover those in ing unle by their it would

Many p are, it is possibly o but the 1 learned if the spray spraying The pro

instance. blossoms for 10 In the sa just two when we Again, ca covers the sults. Th later.

In order fully, we n also some young forn young app lets, which these rema but after a and close u 10 days the R

re, it mus

canes ar

, and the

vo-year-ole we refer to

alive and

old plant

s and then

variety to

part in the

all fibron

one must and then d desired.

than they

of these

soil, be-

from the

The whole

st season

ll depend

the soil

never le

vation of

following

the point

ground

to the

ne north

est sides

you wid

ead back

Do not

orth and

on the

he trees.

12 feet

prevent

r being

rd grow

ft them

want a

re some

Moore,

Int.

should be 7

THE CONTROL OF THE CODLING MOTH AND APPLE SCAB

L. wsar, B.A., B.S.A., Agricultural College, Guelph

A 90% Perfect Crop of Apples May be Secured. No Need for Ontario Farmers to Lose the \$2,000,000 they do Annually as a Result of These Pests. Full Directions Given by a Practical and Scientific Man.

ITH the exception of where the fruit is stunted through the trees being nearly starved, nearly all the unsaleable apples in the average orchard are made so by the attacks of Apple Scab and Codling Moth. Hence the thorough control of these two pests is one of the chief problems that an apple grower must learn how to solve if he is to be a true success. That thorough control is possible and that, too, without very much trouble or expense, has been demonstrated so frequently that no one who has impartially studied the question can any longer doubt it. In every apple-growing state in the United States and in Ontario, every really progressive orchardist to-day is a thorough believer in the value of spraying for these two pests.

close indeed that no matter how carefully we tried we could not get any spray mixture inside them. HABITS OF YOUNG LARVAE OR WORMS

We find that the Codling Moth worms do not enter the apples until after the calyxes have all closed, and we also find that 75% of the first brood of them enter at the calyx end. " stands to reason, therefore, that unless there is poison inside this part of the apple the worms will not be killed when they enter, and if the poison is once inside it will remain there and kill any entering at any time during the season.

WHEN TO SPRAY

The foregoing facts show that to get the poison into the calyx it will be necessary to begin to spray the trees immediately after the blossoms

fall and while the calyx is still open as shown in fig. 1. All the spraying must be done before the calyx closes, that is, inside of 10 days at the utmost or in somewhat less time than this if the weather is very hot.

The secret of controlling Codling Moth is therefore to see that every calyx is thoroughly coated with poison before it can close. If we do this so large a percentage of the first brood will be killed that there will be very little trouble from the second



For thorough spraying one should have as good an outfit as he can afford. A good up-to-date barrel pump is satisfactory for only about five acres of fairly large trees. For from five to 10 acres a double-acting pump

should be used. Ten acres of trees, 40 years of age are all that one should expect to be able to spray thoroughly with this outfit. For larger orchards it is usually desirable to get a good gasoline engine of about 21/2 horse power. One of these with a good pump of large capacity, will spray about 25 acres of orchard composed of large trees.

A good nozzle is very important. The writer likes a nozzle of the "Friend" type. Several companies manufacture these. Two of them on the end of a Y give an excellent spray.

A small elbow between the nozzles and the spray rod is very necessary, for without it one cannot control the direction of the spray and send it directly into the calyx Good pressure is also very helpful. One should always aim to have 100 lbs. pressure and if possible much higher, even up to 150 or 200 lbs. For tall trees a tower should be built on the spray wagon, otherwise the top of the tree will not be well sprayed and the fruit

we can use with it is arsenate of lead; two lbs. to 40 gallons of the liquid is sufficient. If Bordeaux is used we may use either the same amount of arsenate of lead or ¼ lb. of Paris green.

Apple scab is a tiny plant so small that we re-quire a microscope to see what it looks like. This development. Soon after becoming established

on the fruit or leaves, the Scab plant sends up little stalks, which bear tiny spores that act as seeds, and are carried by the wind from place to place, and, alighting on other leaves and fruit. start the disease there too if the weather conditions are favorable.

The disease winters over on the leaves on the



Fig. 1-Blossoms off, Calyces Open, Ready to Spray

ground. A fresh crop of spores is produced in the spring from these dead leaves. About the time the blossoms are beginning to burst these spores are being spread throughout the orchard and if the weather is favorable, start the disease on the leaves and opening blossoms. The chief time, however, for the spread of the disease is shortly after the young fruit has set. Later in the season



Fig. 2.—Calyces Nearly Closed, Rather too Late to Spray as the weather becomes warmer and drier very few new infections occur except in very wet sea-

MEANS OF CONTROL

If we can cover the leaves and fruit with some substance in which the spores cannot germinate, it stands to reason that we may hope to ward it off. Such a substance we have in Bordeaux mixture or lime-sulphur. We noted in the foregoing that the disease began to attack the foliage about the time the blossoms began to open, hence



Fig. 3.-Tee Late to Get Poison in

our first spraying should be just before the blossoms begin to burst. Failure to give this first application often results in the disease getting on the stem of young fruit and causing it to fall. We also stated that the most rapid and severe attack came soon after the young fruit had set; hence our second spraying must be just after the blossoms fall. Fortunately this is the time to spray for

(Concluded on page 8)



Spraying from Elevated Platform and Ground Giving a Thorough Application An elevated platform on the spray wagon is a necessity when trees of medium to large size are to be sprayed. This illustration was taken in the orchard of the Ontario Agricultural College at Guelph. 3r. Caesar, the form the front of the tower.

Moreover, it would be criminal on the part of those in responsible positions to advocate spraying unless they were genuinely convinced both by their own experience and that of others, that it would pay, and pay well.

are, it is true, getting poor results, results that possibly do not pay for the trouble and expense; but the reason for this could always be easily learned if one were present to see how and when the spraying was done. The fact is that the

The proper time to spray is very important; for instance, if we do not spray at once after the blossoms fall for the Codling Moth, but leave it off for 10 days or so, we cannot hope to control it. In the same way, as we shall show, there are just two times in the year in ordinary seasons when we must spray to prevent Apple Scab. Again, careless spraying, which only partially covers the leaves and fruit, will not give good results. The reason for this will be apparent

fully, we must know one or two of its habits, and also some of the changes that take place in the young forming apple. When a blossom falls off a young apple there are left five little green leaflets, which form what is called the calyx. At first these remain spread out like the blossom (fig. 1), but after a few days they begin to come together and close up (fig. 2), and by the end of a week or 10 days they are very close together (fig. 3), so

CAUSE OF POOR RESULTS

Many persons in the province who are spraying spraying in such cases is not done intelligently.

there will be wormy. POISON TO USE If we are using lime-sulphur, the only poison THE CODLING MOTH In order to control the Codling Moth success-

THE NATURE OF APPLE SCAB

little plant does not manufacture its own food like ordinary plants, but lives as a parasite upon the apple leaves and fruit, depriving them of the nourishment that they need for their own proper

Pruning the Old Apple Orchard

J. C. Harris, Oxford Co., Ont.

In commencing to prune a neglected apple tree, one should take at least two years for the operation. The operator should always bear in mind a few general principles. 1. Heavy pruning is a severe shock to a tree and should not be carried to excess in any one season. 2. Fruit grown on very high trees is expensive and difficult to spray, thin, and harvest; for this reason the work generally is not well done. 3. Leave fruit spurs three or four inches apart all over your tree inside and out. 4. Sunshine makes color; trim to have every apple share the sun's rays.

I would commence pruning an old tree by cutting cut the cross limbs inside the tree. Next lower the highest portions, always cutting back to where another limb starts. Cut close. Never leave stubs. Make cuts as perpendicular as possible so as to shed the rain. Cover large wounds with white paint. Then commence with a ladder on the outside of the tree thinning out the branches to allow the sunlight access to all parts of the tree. Next thin out the fruit spurs on the inside where they are too thick, avoiding always having any bare limbs.

Every tree should be gone over annually keeping the head symmetrical and open. An orchard kept in this shape will soon become a source of pleasure and profit to its owner. A well cared for plantation of the best varieties should give a net profit of \$100.00 to \$175.00 an acro per annum.

Crops on the Small Farm

W. J. L. Hamilton, Nanaimo Co., B.C.
Around Victoria, B.C., the land is very valuable, much of it is divided into small plets of say 10 acres. As the growing of small fruits is very profitable, bringing in \$300 to \$400 an acre, it is naturally important to devote as much of the plot to this as possible. As a horse is necessary, and as a family man must have a cow, and, as hay, roots, and grain are very high priced, it is imperative that some of the 10 acres be devoted to raising feed for their animals. Hence it is of importance to keep them on the smallest possible acreage.

To do this the animals must be stall fed. Alfalfa hay is about equivalent to bran in feeding value, and is a great milk producer, whilst green alfalfa, four cuttings of which can be obtained a year, is a most nutritious and satisfactory food material. Hence an acre of alfalfa once it comes into bearing is almost a necessity. Moreover it lasts a lifetime. Peas and oats, a half rod of which is a good day's feed for a cow is also most satisfactory, provided the crop is sown weekly up to April, which will then be giving food during end of June and all July. Just enough land for a week's feed, three and a half rods per herd, should be sown each week. Red clover can be sown with this crop of peas and oats giving next year and the following, good crops of green feed and hay. When this clover is plowed under, roots can be grown on the ground, which will then be in splendid condition to set out strawberries. Hog millet, which does well here may be sown as the peas and oats are cut, if one chooses. It proves to be an excellent feed.

For early feed winter rye can be sown in the fall on any vacant plots; since this is about the earliest green feed available in the spring, being a week before fall wheat.

Sugar corn, or early varieties of field corn give heavy crops; these can be fed along with peas and oats, so that these are considerably stretched, requiring a less acreage, and at the same time giving a better ration.

With feur cuttings of alfalfa, with rye for

early feed, peas, oats and corn up to August, with ensilage made from corn, clover, peas and oats, and with a plot of roots the feed bill for the stock will be greatly reduced, and, deducting plots for buildings and gardens, six acres will still be available for small fruits, which will be quite as much as the owner, helped by his family, can manage; this area should bring him in an income cf atout \$1,500 a year if he is close enough to his market to deliver his fruit daily without wasting too much time.

The mest profitable small fruits to grow here as trawberries, rasplerries, loganberries, and blackberries, which give an extended season, and so spread the labor of picking over a long period, an important point where pickers are scarce and wages high.

Pointers on Strawberry Culture

W. C. Horne, Peel Co., Ont.

The soil for strawberries should be highly fertilized. I prefer manuring heavily in the fall, and plowing rather deeply. In the early spring we use the spring tooth cultivator, setting it to run deeply two or three times before planting. By so doing we have our soil thoroughly mixed with the plant food ready to give the plants a start.

The best time for planting is from the middle of April to the first week in May. We never set our rows closer than 3½ feet wide. It is better if they are four feet apart, and the plants from 20 inches to two feet in the rows. After the plants have been planted a week or so we cultivate and hoe thoroughly. It is important to thoroughly hoe and cultivate before the plants begin to run. We spare as far as possible the first new plants from the runners as very often they are the only ones to fully develop for the bearing of fruit the next season.

SELECT THE PLANTS

It is important to set selected plants only. We then get a better catch and a better row. We do not allow the plants to set too thickly in the row. There should be from three to four inches between each plant if we would secure the best results. We don't allow our rows to exceed two feet in width.

There are many varieties of good strawberries. Some are better adapted to certain soils than others. The Williams, Warfield, Sample and Glen



" Some Pumpkins"

For milch cows, hogs and sheep, pumpkins have considerable feeding value. When grown in the corn field however, they interfere with both cultivation and harvesting of the corn crop. They ought to be grown as a separate crop on land by themselves.

Mary all do well on a moist soil. The Warfield is perhaps the best canning variety and requires a moist soil to develop properly. The other three do as well as any that I know of on the lighter and dry soils, as does also the Beder-wood. The Warfield and Sample are pistillate varieties,

Money in Early Apples

R. C. Fowler, Halton Co., Ont.

For the past few years, early apples, such a Yellow Transparent, Astrachan, and Duchesshave proved fairly profitable. There is a good demand for them in the markets of the west, and also in our own Ontario markets. The Old Country market calls for the Duchess.

Our early varieties last season netted us about 25 a standard basket for No. 1's and No. 2's, after paying commission and transportation charges Considering the probable increase in the demand in the future, consequent on the increase in population of the cities of our older provinces, and the



marvellous growth of the west, the planting of the best varieties of early apples should prove a very profitable branch of fruit growing.

One factor that contributes largely to the profit derived from the growing of early apples, is their early and continued productiveness.

Grow Pumpkins as a Specialty Crop

N. C. Campbell, Brant Co., Ont.

Pumkpins ought to be grown on every farm. Every boy,—yes and most men,—and we shall not leave out the women, like pumpkin pie. Hence a few pumpkins can readily be disposed of for making pies. Any that are left will be relished by cattle and swine.

Cattle, once they learn to appreciate them, are very fond of pumpkins. Pigs relish them toc and on that account pumpkins may be reckoned as of considerable value for fall feeding.

It is customary on most farms where pumpkins are grown to plant the seed with corn or with potatoes. It cannet be said that this practise is altogether advisable, since, as any observant one can testify, the rows of corn or of potatoes in which the pumpkins are planted do not yield nearly so well as where the pumpkins have not shared the ground. We always grow a few pumpkins but we plant them on a plot of ground by themselves.

Varieties of Raspberry

Charles F. Sprott, New Westminster Dist., B.C.
When selecting varieties of raspberries to
plant the grower must consider climate and
location. I would strongly recommend anyone
to visit existing plantations and plant such
varieties as are in that locality making money
for the owners. Later on, if one sees fit and
with experience gained, some of the new or
untried varieties can be tested.

Personally I favor for this district of British Cclumbia, the Red Antwerp. It far exceeds in productiveness, thrifteness and good shipping qualities any other variety I have tried. Other good varieties are the Loudon, Cuthbert, Mariboro and Golden Queen. The latter is yellow. A Wa

M

comb sever usefu year a positi versal the li sonou now i The

centra

Thi used leaves is ma of war and s boiler iron 1 the bo the wa fresh flour o weighe the ba mixtur to boil

to pass keep u boiling an hour the mis cooked, enough to 40 ga ment as through with 30 into the to apply is to resiline w

the pun OTHER For available hand fo "pot" of ing can rections by the boiling is suitable ary pota making; box shap

and wh

The que on the ca is done, as desire lime, sulp

tom cove

supporte

This was applied to causing a this wash used, and slake very Beachville is made

LIME SULPHUR SPRAY - ITS USES-HOW TO MAKE IT H. L. Fulmer, Demonstrator in Chemistry, O.A.C., Guelph

A Wash That Meets all Requirements and Can be Made at Home or Purchased in the Commercial Form. Arsenicals May be Mixed With it to Control Insect Pests.

OR many years "Lime-Sulphur Wash" has been used for spraying purposes; originally to control the San Jose Scale, but now for combatting many other insects as well, and also several varieties of fungous diseases. Its field of usefulness is still gradually enlarging year by year and before long we may find it occupying the position of what is known as a "cure-all." A universal remedy would be a valuable find and indeed the lime-sulphur wash, combined with some possonous material, such as lead arsenate, practically now meets this requirement,

There are three well-defined lime-sulphur washes: (1) Home-boiled; (2) Self-boiled; (3) Concentrated; (a) Commercial; (b) Home-made.

HOME-BOILED WASH This is a winter wash and is used in the spring before the leaves and blossoms appear. It is made as follows: 20 gallons of water are placed in a barrel and steam from an engine or boiler run into it through an iron pipe reaching almost to the bottom of the barrel. While the water is heating, 20 lbs. of fresh stone lime and 15 lbs, of flour or flowers of sulphur are weighed out and dumped into the barrel with the water. The mixture will now soon commence to boil. The steam is allowed to pass through fast enough to keep up a strong and vigorous boiling, and this continued for an hour. At the end of this time the mixture will be sufficiently cooked, and water can be added enough to make the volume up to 40 gallons. The mixure, sediment and all, is now strained through a brass wire strainer with 30 to 40 meshes to the inch, into the spray tank, and is ready to apply at once. The straining is to remove any large lumps of lime which might be present. and which would probably clog the pump and nozzle if left in.

OTHER METHODS OF BOILING For those who have not an available supply of steam on hand for cooking the wash, the "pot" or "pan" method of boiling can be used wherein the directions of procedure are exactly the same, except that the boiling is done by direct heat. A suitable form of pot is the ordinary potash kettle used for soap-

making; and of the pan a good strong wooden box shaped like a sap evaporator and with the bottom covered with sheet iron. The pan can be supported on a brick or stone arch in the ordinary

The quantity of wasn made at a time will depend on the capacity of the vessel in which the boiling is done, and can be made in large or small bulk as desired, so long as the proportion between the lime, sulphur and water is kept the same.

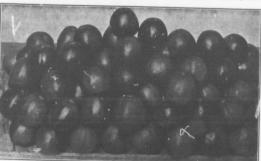
SELF-BOILED WASH

This wash is especially adapted to summer spraying. It is of such a nature that it can be applied to trees and shrubs in foliage without causing any destruction of the latter. To make this wash, a lime of first class quality must be used, and it must be freshly burnt so that it will slake very rapidly and vigorously. Freshly burnt Beachville lime is excellent for this purpose. It is made as follows:

Place 32 lbs. of lime in a barrel and pour on enough water to almost cover it. As soon as slaking begins add 32 lbs, of sulphur (sifted flowers constantly while slaking and add more water to form a thick paste, and then gradually a thin paste; six or eight gallons are usually required for the whole thing. The slaking will cause sev-

CONCENTRATED WASH
This form of the wash is very strong and must
be diluted with a great deal of water before spray-

of sulphur to get rid of lumps). Stir the mixture eral minutes' boiling. As soon as slaking is over add water to cool, strain into the spray tank, and then add enough water to make the whole up to 160 gallons. Smaller quantities can be made to suit conditions.



Northern Spy Apples taken from lower limbs in Ray Clark's Orchard, Woodville, N. S., having been carefully sprayed with Niagara Lime-Sulphur



Apples taken from the tops of the same trees, being too high to reach with the spray

ing. It can, by adding the suitable quantity of water, be made into either a summer or winter wash. The advantage of this wash is that it is very convenient since it can be stored away in any quantity desirable at any time of the year, and when any spraying is to be done all that is

ary to do so is to dip some of the concentrate dd water, and it is ready to spray.

his wash can be bought (Commercial), or in can be made at home (Home-made), at less expense.

To make the home-made concentrate, proceed in the same way as in making the home-boiled, except that larger quantities of lime and sulphur are used, and further that the lime must be of good quality, like Beachville, and must be freshly burnt, Further particulars can be found on page 25, Bulletin 177, Ontario Department of Agriculture, for making this wash. How to dilute the concentrate will be dealt with.

in another article in some subsequent issue of Farm and Dairy, in the Horticultural Depart-

ADDITION OF LIME TO DILUTED CONCENTRATE

Those concentrates that are bought without the sediment present in them do not mark the tree sufficiently when sprayed, and consequently some orchardists add slaked lime to them to overcome this. This practice is not objectionable if the lime is not added until after dilution and only just before spraying. About four lbs. of good stone lime are slaked and strained, and this then added to the spray in the spray tank, and agitated in order to mix it in well. This is the quantity we use for each 40 gallons of spray. Besides acting as a marker, this lime also prevents the wash from dripping so much from the tree and also adds sticking quality.

In order to do away with a separate and additional spraying operation for applying poison for eating insects, such as the codling moth, an arsenical is

often added to the lime-sulphur spray and applied along with it in the same operation. This is usually quite a safe practice, but lead arsenate is the only arsenical which is recommended for this purpose. The quantity of the arsenate used varies, but usually averages about four lbs. to every 40 gallons of wash. It is worked up into a thin paste with water and then added to the tank and agitated until well mixed with the spray. Paris green and arsenite of calcium have been used in this connection, but the former decomposes the lime-sulphur wash a great deal and weakens it, and the use of the latter has often caused much damage to foliage, hence the use of both is condemned.

Tomatoes on a Trellis

J. W. Clark, Brant Co., Ont.

Last year for the first time I grew my tomatoes on a trellis, and intend to keep up this practice. More tomatoes and better tomatoes can be grown on the trellis than where the plants are allowed to straggle around on the ground. They are easier to cultivate, the fruit ripens better and is cleaner. It is not necessary to wipe off the dust before selling.

The trellis which I have used consists of a heavy post every 45 feet, and light sticks for supports every 15 feet, with fencing wire stretched between.

The plants are tied to these wires with binder twine. The tomato plant is trimmed down to all but two or three stalks. The labor of trellising the plants is more than made up for by the saving in hand hoeing which is necessary where the plants are allowed to straggle. Then we have extra fruit, better fruit and consequently larger

Our recipe for grafting wax is as follows: Four parts by weight of resin, two parts by weight of beeswax, one part pure linseed oil, either raw or boiled.—Prof. J. W. Crow, O.A.C., Guelph, Ont.

The soil for blackberries must be well drained, and it should be a strong loam.

Asparagus, that daintiest of spring vegetables, is as easily grown in Saskatchewan as is the indispensable rhubarb.

made affair never seen f one would pped by an orchard on ing of the

ve a very

the pro-

2, 1911.

s, such a

Duches

is a good

west, and

The Old

l us abou

. 2's, after

charges

e demand

e in popu

s, and the

pples, is Crop ry farm

we shall kin pie. disposed t will be te them, ish them

be reck-

eding. oumpkins or with practise bservant potatoes not yield have not w pump-

ound b

st., B.C. rries to ate and anyone ant such g money fit and new or

British exceeds shipping Other , Marlellow.

It.6

ou vi in pr

... Fe Wil sow feed mang ear,

separ. The the r sugge to gi

oats,

sugar In ca This Feed

day.

chops milk

quant

A

What grade half n milkin plenty in sho parts meal day?—— Heii

mentio

on a r

through

corn i enough

Such a

all use

each 9 fed ni

and lo

OU

Good Farming Special

The "Better Farming Special," the demonstration train which will be demonstration train which will be available to the farmers of the south western portion of Ontario, along the western portion of Ontario, along the Michigan Central Railroad, will on the second week of its tour, touch the following points, and will reach each place at the time indicated. Instrucprace at the time indicated. Instruc-tion will begin at once, lasting from an hour and a half to twe hours.

. . . .

March 7th—Kingsmill, 8.30 a.m.;
Springfield, 10.25 a.m.; Brownsville, I
p.m.; Tillson, S. p.m.
March 8th. Hawtrey, 8.30 a.m.;
Wyndbam, 10. Hawtrey, 8.30 a.m.;
Wyndbam, 10. Hawtrey, 8.30 a.m.;
Cayuga, 10.25 a.m.; Canfield, I p.m.;
Cayuga, 10.25 a.m.; Canfield, I p.m.;
March 10th—Perry, 8.30 a.m.; Welland, 10.25 a.m.; St. Davids, I p.m.;
Niagara-on-the-Lake, 3 p.m.

then roll. The rape might also be sown in rews from 18 inches to two

On page 6 of Farm and Dairy last week a table showing losses of the various fertilizing ingredients in con-nection with dary farming was in-advertently omitted, and is herewith reproduced this week. In the pro-duction of 1,000 bbs. of milk from which the cream is seld, the following table shows the amount of fertilizer used, how much is lost, how much used, how much is lost, how much may be returned to the soil, and how much fertilizer will have to be pur-chased or obtained by legumes:

FARM MANAGEMENT sown in rews from 18 inches to two sown in rews from 18 inches to two feet apart and be expected to give feet apart and be expected to give fixed as and of the feet apart and be expected to give feet apart and be expected for the sown in rows about five lbs. Seed an area will be sufficient.

2. The best way to rid a sandy soil of quack grass is to plow in hot dry various fertilizing ingredients in contract the contract of the cont

tooth barrow until all roots are ex-posed. Another inches deep posed, and the property of the state of the s

In Milk and Returned to Returned to Manure Soil by Skim-Scil by Manure, Ibs. 21.2 2.9 2.9 10.3 18.0 87 9.8 Total Total Loss of Fer-Returned 12.0 9.2 tillizer loss 1122 7.8 \$1.30 Elements

Improving a Sandy Field Please auggest the best method of mak-lig good use of a small field on top of a sandy hill, it is in pasture at present. Suppose the properties of the present of the been, without a grow where clover has been, without a grow where clover has mond Co., Que.

results might be confidently expected from the following line of treatment:

Between now and May 15th apply 15 tons farmyard manure an acre. Plow three to feur inches deep when the three to four inches deep when the weather is wet and roll and disc harrow at once; not later than May 25th if possible. Work the soil till a good firm seed bed is secured. Then sow White Cap Yellow Dent Leaming corn in hills three and a for four foot agent agent agent. feet apart each way. Keep the corn field clean during summer. Let cattle in when the corn is bevested, up corn stubble with tight toot tivator or disc hand we next a tiff tooth culin the fall Harrow well and experience where the pring (1912) so cats, three bus, an acre and at same time sow 12 lbs. red clever, two lbs. alsike, three lbs. alsike, alfalfa and the bush of the principle grass and cover seed thoroughly, un-vide into two equal portions, sow one half lengthwise, other half crosswise, covering the whole field at each seed-ing. Harrow lightly after seeding and ing. Harrow lightly after seeding and roll firmly, going twice over the field with the roller if the land is at all

The oats should be cut on the fre The oats should be cut on the fresh side and the cattle kept off all fall. Next year (1913) pasture or cut clover hay and in 1914 sow to corn again. Such treatment will make the sandy knoll the best land on the farm in a very few years.

consequence of clover naving Leen grown there. The method of sowing two or three lbs. of alfalfa with the clover and grass for a few years is the best plan for inoculating soil.—J.H.G.

Sowing Rape Quack Grass Please give me information on the time to sow and the cultivation of rape for pasture. Can rape be grown with nurse crop or is it better without? 2. What is the best method to kill quack grass on sandy soil.—S.J., Haliburton Co..

grass on sangy some Ont. Rape can be sewn with a nurse crop Rape can be sewn with a nurse crop Rape can be sewn with a nurse and used as pasture after the nurse crop has been harvested. Barley, wheat or oats might be used and are added in the order given. I might or oats might be used and are ac-visable in the order given. I might say however, that the chances of a good catch of rape with any one of good catch of rape with any one of the above nurse crops are not very good, unless the season is very favor-able and the land in particularly good shape. Under average conditions bet-ter results will be obtained by acting as follows: Immediately after harvest rip up the stubble land with a spring tooth or stiff tooth cultivator, smooth harrow, spw rape 10 IBs. an acre broadeset, harrow very lightly and oughly worked and reworked at intervals to keep any surviving quack grass roots in check.

The same land well manured, plowed The same land well manured, plowed with a shallow furrow, well worked, sown to corn in hills four feet apart each way will give a good crop of corn and can be kept free of the grass with a reasonable amount of work by using a reasonable amount of work by using a good corn cultivator.—J.H.G.

I. F. Metcalf, B.S.A., who for I. F. Metcall, B.S.A., who for three years has made such a pronoun-ced success of his work as District Representative of the Ontario De-Representative of the Ontario Department of Agriculture for Simoo-County, has resigned the office accept a position with a foronto company that is leasing orches throughout the province for tend from five to ten years. This firm fra and the second of the province for the firm of th

AGENTS WANTED

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

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

FOR SALE-Choice Barred Book Cocker els. Frank Treverton, Haiston, Ont.

HARDWOOD ASHES-Best fertilizer in use. George Stevens, Peterboro, Ont.

FAR SALE—A German coach stallion, 7 years old, weighs sixteen hundred. For terms apply to, Wellington Nevills, Grimsby, Ont.

PURE BRED FOWLS GIVEN AWAY PREE Ohe BRED FORMS GIVER AWAY FREE in return for new yearly subscriptions for Farm and Dairy. A club of four new subscribers will bring you a pair of purbered standard fowls. Write Circulation Manager, Farm and Dairy, Peterboro,

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

THERE IS AN ENGRHOUS DEMAND for Dairy and Stock farms products in the Boult. The Boult farms products in the South. The Boult farms are supported by the Boult farms of the Boult farms for sale in the rich Piedmont section at \$10.00 to \$75.00 per acre. Foot of mountains, no malaria, out door work of the Boult farms for the Boult farms for the Boult farms of the Boult farms



BRUCE'S BIG FOUR FIELD ROOT SPECIALTIES

BRUCE'S GIANT WHITE PERDING BEST.—The most valuable Field Room on the market, combines the rich qualities of the same meet with the long feeping, large size and heavy cropping qualities of the same with the long feeping, large size and heavy cropping qualities of the market with the long feeping large size and size of the same size of the large size of

FREE Our handsomely illustrated 104-page catalogue of Vegetable. Farm and Flower Seeds, Plants, libs, Poultry Supplies, Garden Implements, etc., for 1911. Send for it.

John A. Bruce & Co., Ltd., Hamilton, Ont.

World's Greatest Separator

Standard CREAM SEPARATORS

DON'T Whip the cream. Froth the milk. Clog when milk is cold.

Let slime and

disease germs

go out in the cream or skim

DO

Skim perfectly with milk cold or warm.

Give cream that churns easily and makes good solid butter.

Purify the cream Retain all foreign matters in the bowl.

Protect the calves from many diseases.

"STANDARD" Sizes, prices and terms on application.

If you have 500 lbs. of milk to skim at once, the STANDARD will skim the last 100 lbs. as well as the first, and still thoroughly cleanse

WANTED Inquiries from every farmer interested in Separators.

Good agents in unrepresented districts.

WRITE FOR FREE CATALOGUE

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

A good Cream Separator made at home is of more value to you than a good Cream Separator made abroad.

desirable to mention the name of this publication when writing to advertise

2, 1911.

ght also be

ches to two

er results. five lbs. fent.

in hot dry

ots are explow rather

nches deep

the soil is d germina-shel and a ter seeding

grow until deep, thor Ttl. Value of Fer-tilizer lost \$1.38

.31

d at inter-

uack grass

ed, plowed ll worked, feet apart op of corn

who for pronoun-s District sario De-office to onto com-

through of from n has al orchard se, with with Ontario

to farm-for itself MODERN , Out. ERTISING

H ORDER Coeker Ont.

allion, 7 ired. For Nevills,

Feed for a Sow with Litter will you give me a ration to feed a work of the control of the contro Feed as much siralfa hay as she will eat. Give an ear or two of corn a day. Put the corn where the little chaps can get a chance at it. Skim milk or whey uniformly sour, or else uniformly sweet can be given in any quantity she wants to drink.—J.H.G.

A Ration for Heifer Calves

A Ration for Heifer Calves

What is the best method of reeding frade Holsain calves about sight semi half month old. I intend to have them shifting at about two years old. I have have an and not cach of oats and oil parts bran and one cach of oats and oil day? How much should be fed per day? How much should be fed per the street of the age and breeding mentioned may be expected to do well on a ration prepared as follows: The corn cured in shock should be run through a feed cutter, enough to last a week being cut each time. He corn is very dry it might do to cut enough for two weeks at one time. Such a quantity should be cut in any case as will not spell before being all used. This, with cut straw mixed therewith, asy 60 lbs. oat straw to each 200 lbs. corn forage, should be fed night and morning in whatever quantity the heifers will eat clean and look fer more. A good plan

The Feeders' Corner is fee the use of our subscribers. Any latereshees a large of the mixture of cut corn forage and out straw or out chaff to do the next interest. All questions will receive interest. All questions will all questions will receive interest. All questions will receive interest. All questions will all questions will receive interest. All questions will all questions will receive interest. All questions will receive interest. All questions will receive interest. All questions will a

Feeding Calves without Skim Milk

M. H. Gardiner, Delevan, Wis. M. H. Gardiner, Delevan, Wis.

A New York breeder asks if it is not just as well for him, in feeding; his calves, to add warm water to with the second of th

with skim milk they continue the whole milk without increasing its quantity, gradually adding warm water as the calf requires more water than is found in the milk, and supplying; its increasing food re-quirements with supplemental feeds.

SOLIDS NECESSARY

Quirements with supplemental feeds.

SOLIDS NECESSARY

No one should imagine, however, that water alone can in any way take the place of skim milk, though it may take the place of the material towards and the same place of the water found in the skim milk. Our semi-cficial records are showing that aver-it should be a similar contains the same that the same that the same that are same that a small portion is fat, 8.55 per cent. Solids other that are standard to the same that are same that are same that are same that are same that the same that are same that the same that are same that Holstein-Friesin means assume that Holstein-Friesin mails contains nine per cent. of solids not fat, or nine pounds in every 100 libs. of skim milk. A calf two months old needs not less than 20 lbs. of skim milk aday, which will contain 1.8 lbs. of solids other than fat; but if this calf gets but 10 lbs. of whole milk diluted with 10 lbs. of whole milk diluted with 10 lbs. of whole milk diluted with 10 lbs. of whole milk can a supply the place of the fat in the milk than that of the solids not fat; but with an average of not less than 10 lbs. of whole milk per day of the fat in the milk than that of the solids not fat; but with an average of not less than 10 lbs. of whole milk per day of the same and the same per sam

Won Calf in less than a Week

Won Calf in less than a Week
Recently Farm and Dairy offered
a pure bred Hostein calf for a club
of 45 new subscribers at \$1.00 each.
Mr. H. V. Hughes of Lisgar, Que.,
was less than a week securing such a
club, and Farm and Dairy recently
shipped to him a pure bred Holstein
Bull Calf, which was bred by Gordon
H. Manhard, of Manhard, Ont.
Mr. Hughes writes Farm and
Dairy. "The thoroughbred Holstein
calf which I received from you for
securing a club of 45 new subscribers,
has arrived O.K. and I am well sainided with him in every respect. I am
well pleased and wish Farm and Dairy
overy success."

MAPLE SUGAR MAKERS

The Lightning Evaporator is not only the fastest one made in the world, but it holds more prizes, media and diplomas for quality of syrup it makes than all the other makes put together. We have the documents to prove the sugar and syrup at the first of the world by the sugar and syrup at the first of the syrup of the county fairs of Eastern Townships. Catalogue Fre."

SMALL BROS., - Dunham, Que.



WEST LAND REGULATIONS

SYROPSIS OF CANADIAN NORTHWEST LAND REGULATIONS

Any person who is the sole head of a family, or any male over 13 years of a family, or any male over 13 years of a family, or any male over 13 years of a family, or any male over 13 years of a family, or any male over 14 years of a family, or any male of the family of the District Agency, or sub-Agency, for the District Agency, or certain or be made at any agency, on certain or be made at any agency, on certain or be made at any agency, or certain or be made at any agency, or certain or the certain of the control of the control of the control of the certain of the

It pays to advertize. Try it.

PHOTOGRAPHED IN AUGUST-BLOCK ONE-YEAR PEACH TREES

Herbert Raspberry

This is the heaviest cropper of all Red Raspberries: 200 bushels to the acre is its record. Write for prices.

CHERRY TREES

Plant a row of sour cherry trees around your farm, 6 feet clear of fences. Then cultivate both sides of the trees. Each tree will produce \$5 to \$8 worth of fruit per year. We have three grades of cherry trees.

Plums and Pear Trees

The demand for these two fruits is very heavy of late. The Northwest development is absorbing hundreds of carloads of fruit annually. Plant more Plum and Pear trees.

PEACH TREES

BUY A FARM

If you do not own one, buy one, and plant it to fruit. 50% dividends are not unusual in fruit growing. If you own a farm, plant fruit trees: More money in growing fruit than grain or raising stock.

BROWN BROTHERS CO., NURSERYMEN, LIMITED BROWN'S NURSERIES

WELLAND CO., OUR TREES HAVE A RECORD FOR PRODUCING BIG CROPS

ONTARIO

WRITE FOR CATALOGUE OR AGENCY

YOU ARE INVITED TO VISIT OUR NURSERIES

Y PREE ptions to our new of pure-reulation sterboro, Belting, n Posts, for list, imperial

EMAND EMAND fucts in t in its "While re some in the any ad-dirymen illdings, d good farms

section oot of work Green-

Res N

Pea

E

been

have in s

depr

Gr

most this

pear

antly

reduc plant the i



RUBEROID

Makes a One-Piece Roof

Water can't back up through a RUBEROID roof, for there's not a crack in it anywhere. The Ruberine Cement which goes between and over the joints makes the seams as tight and strong as any other part of the roof.

Easily laid-absolutely water-tight-weather-proofstrongly fire-resisting-RUBEROID Roofing has given perfect protection for years after its imitations have had to be replaced.

Ask your dealer to show you a sample of RUBEROID that lay 17 years on a foundry. Or write us and we will mail you a sample, with our straight-fact Booklet B on Roofing.

"SOVEREIGN" Sheathing Felt is miles ahead of building paper. Write for sample.

THE STANDARD PAINT CO. OF CANADA, Limited

286 St. James St., Montreal 179 Bannatyne Ave. East, Winnipeg 25 Pender St., Vancouver

DEALERS EVERYWHERE





F YOU WANT DURABILITY, ELIABILITY AND SIMPLI-ITY YOU GET THEM IN HE O. K. CANADIAN.

It requires only one team and At requires only one team and man to plant your crop. Its auto-matic cup device does not punc-ture or bruise the seed in any way: handles it almost as carefully as by hand.

Write for our 1911 Catalogue.

CANADIAN POTATO MACHINERY CO., Ltd., 127 Stone Road, GALT, Out.

POULTRY YARD

Mistakes and Some Suggestions

Al-Jackson, Westmoreland Co., N.B.
Mistakae are being made daily in
the poultry yard. I will point out
a few which come under my notice
meet frequently and suggest ways to
avoid these mistakes

mest frequently and suggest ways to avoid these mistakes.

One of the most common mistakes is to over-crowd. A person goes to a poultry show, visits some enthusiastic poultry man who is making money or gets the idea somewhere that there is all kinds of money in poultry for no body and everybody. Ferthwith he body and everybody. Forthwith he gets the hen fever and the only cure is to get into poultry. Probably he only has house accommodation for a dczen hens, but wishing to get rich quick, he buys 25 or 30. If you have quick, he buys 20 or 30. If you have room for a dozen hens, get a dozen and no more. More eggs can be ob-tained from 12 bens in a place 10 x 12 feet than from 20 hens in the same

THE QUESTION OF STOCK

Mistake No. 2: Having decided to keep hens, the new poultry man be-gins to look around for stock. Having gins to look around for stock. Having an eye for beauty, he goes to a breed-er of pure bred stock, and is quoted prices running from \$1 to \$5 each for A.1 birds. The price frightens for A.1 birds. The price frightens him. He finds an excuse to leave saying he will call again. He calls on a fellow who is sick of the busi-ness and has a lot of cheap hens for ness and has a lot of cheap hens for sale at a low price. He can get these for 35 or 40 cents each. He buys them. It is here that he makes his mistake. If you are geing to kep hens at all, keep good ones. If you cannot afford to buy very many firstcannot anord to only very many first-class birds, Luy as many as you can, and wait either until you can buy or raise the number you require. Mistake No. 3: Hens have to eat.

Mistake No. 3: Hens have to con-A hen is simply a machine to con-vert fodders into eggs. Unless she A hen is simply a machine to convert fodders into eggs. Unless she gets enough raw material for egg production and at the same time enough to build up the tissues of the body, she is not going to do her best.

body, she is not going to do her best.
RESULTS SHOULD COUNT
One should never buy feed solely
because it is cheap. In the long
run the cheapest food is the one that
gives the best results. Last January,



A Colony House or Free Range

A Cotony House or Free Range Every farmer who raises chickens should have one or more of these colony houses, which are portable and may be moved about to give the poultry the advantage of fresh range. Note the compare to the left from which the chickens feed. The plan of this hopper was the Poultry Number of Farm and Dairy.

a neighbor asked us what we were feeding our poultry and wanted to know the cost. We told him cur mash cost us \$2.10 to \$2.25 a cert. He thought that this was pretty high. He was feeding boiled potatoes thick-ened with corn meal and was getting an average of five eggs daily from 46 hens. From the same number of

hens we were getting 24 eggs a day With eggs at 35 cents a dozen, we were getting 60 cents a day more than he was from the same number

Growthy Chickens at a Minimum Cost

J. W. Clark, Brant Co., Ont. Good growthy chickens ready for the market in late summer or early fall can be raised at a minimum cost fall can be raised at a minimum cost when fed from hoppers and allowed to



Chickens Follow the Plow to their Advantage Much valuable food is available to chickens after the plow or cultivators have stirred the soil. It is worth while on the farm to see that the hens and chickens get the advantage of some of this food.

range in the orchard. My chickens have the run of my orchard, which is kept well cultivated so that there is lots of green food previded such as a chicken can eat. I sow a little clover for them. Since the orchard is cultivated, say once a week, the soil is in splend of the soil is specially spe range in the orchard. My chickens

green food for them.

The chickens also do a world of good in the orchard. It is most interesting to watch them in the early morning out under the trees. Codling worms, canker worms, and so forth, which let themselves down to the ground by we make the ground to the control of the state of t

ling worms, came the trees. Codling worms, canner worms, and so
forth, which let themselves down to
the ground by memory of their silken
ropes, are quickly made of their silken
ropes, are quickly memory of their
which the trees provide is
and cracked corn, all they want, as
they take it from the hoppers. They
are watered from a barrel, the water
from which drops slowly into a drinking pan beneath. A mash feed cf
ground oats and corn mixed with
sour skim-milk, is fed once a day.
Sweet milk should never be given, as
Sweet milk is even better than sour
milk milk is even better
the chickens where ever ill reier
chickens will be much better the
nev such chickens as they will ged off to
market early—chickens that will not
need crate fathening, and there will
be but little labor in raising them.

need crate fattening, and there will be but little labor in raising them.

DAHLIAS

The very best standard and novelties.

H. P. VAN WAGNER STONEY CREEK ONTARIO



STRAWBERRY PLANTS Chamber of the control of the contro

Downham's Strawberry and Pheasant Farm STRATROY - ONTARIO

BLACK G.

The

Toro

A Home Made Cultivating Tool that is Cheap and Efficient.

eggs a day dozen, w day more me number

a Mini-

., Ont. ready for nimum allowed to

Advantage cultivators

which is there is such as little e orchard week, the th and thus he differ-ver that he ideal

world of most in-the early and so down to ir silken up and a neces-weather; enefit to

reenings s. They feed cf ed with a day. iven, as readily.
an sour

ed their ll raise l. Their r than t off to ere will

velties, TARIO

LANTS

erry and m

Toronto

Every bearing pear orchard has been completely destroyed, so serious have been the ravges of pear blight in some sections of Ontario. Unless grewers take measures to check the depredations of this disease, pear growing will become impossible.

growing will become impossible.

Growing and immature wood is
most susceptible to this disease. For
this reason it is advisable to let the
pear orchard remain in sed to be
pastured, or, if the land is abundantly productive, for hay. This will
reduce the wood growth, keep the
plant tissues harder, and increase
the resisting power of the tree. If
this system of management is supplemented by keeping all signs of the

HORTICULTURE

the diseased pertions burned, pears can still be grown with fair success.

Did all orchardists congerate it the winter warriety, well worthy of a trial. Hardy winter warriety will be a simple matter to keep the worth of the wo Le exterminated entirely. To this end government inspection of orchards by competent inspectors with authority to compel orchardists to keep the disease in check would be a great help.

> Hardy Fruits for Cold Climates W. T. Macoun, Dominion Horti-culturist

Canada has immense areas where the best commercial varieties of apples, pears, plums, cherries, grapes

ter varieties are scarce.

In the most northerly districts of Canada the European or Domestica Canada the European or Domestica of the Canada the European or partial failure owing to the fruit buds winter can be compared to the fruit buds winter the control of the control of the control of the canada the canada

Start on Their Journey Through Newspaperdom

Galt, Ont.—As No. 6 pulled into the C.P.R. Station last evening, the Conductor recognized two old acquaintances standing on the platform.

"Bless my heart! here are The Kids From Galt," he shouted, as the train stopped. "Where are yet youngsters going? Is it business or pleasure this time?"

"Both," responded the Kids. "Business is pleasure with such a line as we carry, and the people tell us it is a pleasure to do business with our house."



The "Kids From Galt" informed

The "Kids From Galt" informed the Conductor that they were cff on a journey throughout the Dominion, to make the people better acquainted with the merits of "Galt" Steel Shingsels and Sidings and "Galt" Art Metal Walls and Ceiling.

The "Kids From Galt" will make their appearance week by week in this paper—and show, by logic and example, the better way of reofing barns and houses, and of constructing barns and houses, and of construction in the construction of the sample, the better way from Galt.

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

AYERS



BLACK LANGSHAN HEN The Best Winter Layer



BLACK LANGSHAN COCKEREL

G. E. HOLT 405 Indian Road

Ontario

oregon orchard. Photo by Prof. 4. W. and small fruits succeed. There are other areas of still greater size where only the hardier fruits can be grown successfully. Into those large and more newly settled parts of the country thousands of people are peuring annually, and it is to give these people reliable information which will lead them to plant only the varieties which are most likely to succeed that this article is prepared. Many thousands of dollars are wasted annually by new settlers, and by cld ones as well, in buving trees of varieties too tender for the parts of the country in which it is hoped to grow them.

them.

APPLES

We owe much to Russia for giving us our hardiest apples. In that country commercial apple orchards are found as far north as the district of Kazan in latitude 55 degrees, which would mean about 350 miles nerth of Winnipeg in this country. Nearly all the varieties which are considered of the first degree of hardiness in this country are of Russian origin. Of the hardy sorts that can origin. Of the hardy sorts that can origin. Of the hardy sorts that can origin. Of the Aurola of the first degree of hardiness in this country are of Russian origin. Of the hardy sorts that can origin. Of the Aurola of the first of the first

Autumn and early winter—Anton-ovka, Patten's Greening and Hibernal

nal.

Orab apples—Martha, Virginia,
Hyslop, Transcendant and Dr. Saunders' new hybrids.

For districts favorable to fruit
growing between latitude 45 degrees
and 47 degrees, the following are
recommended:
Summer—Yellow Transparent, Lowland Raspberry (for heme use), and
Duchess.

Duchess.
Autumn—Langford Beauty, Wealthy, Dudley, Alexander.
Earlywinter—MacIntosh, Fameuse,
Wolf River.
Winter—Soutt's Winter, Milwaukee, Bethel, Canada Baldwin. The

This illustration shows a home-made spike tooth harrow, used by a Meaford, Oregon, fruit grower in his pear orchard. Notice the finely cultivated soil in this Oregon orchard. Photo by Prof. J. W. Crow. digen also appears hardier than most. Some other European plums which are hardier than most varieties are Early Red Russian, Glass, Gueit, Montmorency and Richland. The dependence in the north must be upon the native plums and on the Americans. While these are not equal to the Europeans in quality they are very fair and are being rapidly improved upon. The trees, moreover, are very hardy. Some of the best of the improved native and American varieties in order of ripening are Aitkin, Bixley, Mankato, Cheney, Omaha, Wolf. Hawkeye and Stoddard.

(Concluded on page 26)

Poultry Fencing that is Stronger than Seems Necessary

We make our poultry fencing close enough to turn small fowlthen we make it extra strong, so it will last for years and keep the cattle out. The heavy, hard steel top and bottom wires hold it taut and prevent it from sagging.

PEERLESS POULTRY FENCE SAVES EXPENSE

It is well galvanized so as to protect it from rust. It makes such a firm, upstanding fence that it requires less than half the posts needed for the ordinary poultry fence, and that means a big saving to you. Write for particulars.

We make farm and ornamental fences and gates of exceptional quality. Agents wanted where not now represented.

The Banwell Hoxie Wire Fence Co., Ltd. Winnipeg, Man. Hamilton, Ont.

ELM GROVE POULTRY FARM

FOR SALE - Good Cockerels. Single Comb Black Minorcas, S. C. White Leghorns, Rose Comb Brown Leghorns and Ronen Ducks.

J. H. RUTHERFORD, Box 62. Long Distance Phone.

1 . 4 . . .

DISPERSION

REGISTERED HOLSTEINS JOHN BROWN

will sell by Auction at Lot. 15, Con. 4 of East Oxford, 3 miles south and 1 east of WOODSTOCK, ONT., on

Thursday, March 16th, 1911 AT 1:30 P.M.

His Entire Herd of Registered Holsteins Herd headed by Dewdrop Johanna Lad. Registered in both American and Canadian Herd Books.

Which Fence Do You Prefer?

One that protects, or one that does not?

Do you prefer the strong, serviceable, made-to-last IDEAL FENCE which does not take up valuable ground, does not harbor weeds, never needs repairs, saves worry, protects your crop, and which improves the appearance

Do you prefer to keep that unsightly crooked rail fence which covers too much valuable ground, harbors weeds, causes worry, is really no protection, always in need of repairs, and which certainly detracts from appearance of the farm?

Do you know that you can trade that old unsightly rail fence for IDEAL FENCE, with absolutely no outlay on your part?

Write for our Rail Fence Booklet No. 126 telling you how to do it and giving you valuable fence information.

The McGregor Banwell Fence Co., Ltd. Walkerville - Ontario

Potato Culture

Potato Culture

John N. Watts, Frontenac Co., Ont.
To get the largest crop of any variety of potatees one must first get the land in proper condition. Do not the land in proper condition. Do not the furrow shines. Roll and harrow until the ground is well pulverized. Work in plenty of manure, but never put it in the furrow in which the potatoes are to be planted.

When the ground is ready, draw the furrow, and cut the potatoes so the furrow, and cut the potatoes so as to have at least one good eye to the cut. The seed end sheuld be cut off first. A good eye is one that has not apround the eye but will be weak.

To get the strongest stalk, care must be taken to cut the potatoes can be get as much of the fibre running from the eye to the centre as possible. The sught this fibre the eye will get the strongest the sufficient growth has been put in good or the ground has been put in good the sun for any length of time, better the ground cannot be kept too clean, where can it be worked too often, events.

Culture of Asparagus

Culture of Asparagus

A. V. Main, Lanark Co., Ont.

I prefer to disturb the asparagus
bed in the fall rather than in spring,
especially a lelated spring when the
growths peep up almost before the
growths gone About the last work
in the garden in fall, when the asparagus growths are yellow and the
sap returned to the crewns, cut close
conclusions of the control of the control of the control
and burn. Remove a couple of
conclusions and the control of the control
and the control of the control
asset eggs takes away sour soil and
insect eggs takes away sour soil and
insect eggs takes away sour soil and
over this, soil mixed and
over this, soil mixed and
over this, soil mixed and
over this, manches to keep
it down. This provides the winter
garment.

garment. At the end of April, weather being lavorable, remove the straw and tidy the bed. Keep it within the limits by the spade on each side. Slightly fork over the surface; a spade should never be used, for the roots have ramacked the soil in all directions. With the approach of mild weather give a dressing of salt—about one pound to each 10 square feet at intervals, say May 15, May 30, and June 15.

June 15.

We generally cut about May 10,
and continue until June 20. Short,
stubby stalks about six inches leng
are the best, measuring three-quar-

ters of an inch to one inch at th-base. Cut these as far below the sur-face as possible.

Allow a fair proportion of growth-to crome up to strengthen the crown-for the succeeding season.

Seed can be saved in the fall when red, sown in spring in drills two inches deep and thinned to six inche-allowing them to remain two year-prior to planting.

Early Onions for Market

R. Lush, Peel Co., Ont.

R. Lush, Peel Co., Ont.

the early market. Our method chandling them is then most simple
We just cut the tops off and take
them into the market as they reach



Some Indispensable Garden Equipment Cold frames are a decessity in starting toma-toes, cabbages and early vegetables. They supplement the hot bed and in them plants may get "hardened off" early in the season.

marketable size. We have grown from

marketable size. We have grown from 300 to 500 bags of onions on an acre. These range in price from \$1.85 to 50 cents a lag.

The onion maggott has worked much damage on the crop. It is a bad pest and should receive the at-tention of our entomologists with a view of having some practical remedy discovered. discovered.

When to Plant Ginseng

Should ginseng be planted in fall or pring?-W.S., Huron Co. Ont. Spring planting should not be at-Spring planting should not be attempted by the inexperienced beginner, but it is not impossible. It could done probably during the week immediately after the ground thaws out, but the time is too short and the soil is then full of water and in a very bad condition to work. When the ground is free of frost and the hot sun warms the soil it starts the rook into action. It is one of the first plants to break through the ground in the spring. Ginseng should be planted in fall.

Sir Wi ext

Vi

'ST

Bo



THE STUMP

STUMPING POWDER

DO YOU KNOW

The Value of Stumping Powder on the Farm

MONEY, TIME AND LABOR can be saved by using

HAMILTON POWDER CO'S STUMPING POWDER

Blowing out Stumps. Blowing out and Breaking up Boulders Turning up and Aerating Sub-soil. Digging Ditches. Splitting Logs. Excavating Cellars and Foundation Trenches. Digging Pole and Post Holes.

Write for Descriptive Catalogue on Stump and Boulder Blasting and Prices to



What happened to the Stump by using Stumping Powder.

HAMILTON POWDER CO.

MONTREAL, P.Q. TORONTO, ONT. NEAREST OFFICE TO COBALT, ONT.

VICTORIA, B.C. WHERE YOU RESIDE

one inch at th far below the sur

ortion of growths
gthen the crown
geason.
In the fall when
g in drills two
med to six inches
emain two years

for Market

Co., Ont. ur cnions Our method con most simple ops off and take et as they reach Our method



den Equipment ty in starting toma-vegetables. They in them plants may the season. we grown from

from \$1.85 to has worked crop. It is a receive the at-logists with a ractical remedy

Ginseng

oted in fall or ild not be atrienced begin-sible. It could ing the week ground thaws short and the ter and in a work. When frost and the it starts the s one of the through the inseng should

by using FICE TO

RESIDE

How to Prune Currents

March 2, 1911.

Wm. Fleming, Grey Co., Ont.
The pruning of red, white and
black currant bushes should be performed late in the fall or early in the
spring, and the work should not be
committed to an inexperienced hand,
as the result would certainly be disastrons. The following method should
be followed: be followed:

The operator should note the ex-1. The operator should note the ex-tent of space the bush can occupy, how close the limbs are to the ground, the crowded state of the limbs and

the crowded state of the limbs and the symmetrical condition.

2. If the bush can afford it, the limbs that lie too close to the ground should be removed, and the bush generally, if required to admit air and sunshine freely, should be trimmed.

3. About half the preceding year's growth (if the bush is in a healthy condition) should be cut back, but not in any case to injure the symmetrical condition.

4. The severity of the pruning should be controlled by the space the

should be controlled by the space the bush has to occupy.

5. The pruning should be perform-ed annually.

Thimbleberry Culture

Thimbleberry Culture

John Wilson, Jr. Hulton Co., Ont.

A light, dry, warm soil and plenty
of manure are the essentials to success with a crop of timbleberries.
On a cold soil, the berries grow small
and do not give the yields. A limited district only of the country is
adaptable to the culture of thimbleberries. And only a limited area of
berries. And only a limited area of
them, and advantage, hence there is
always, or advantage, because there
one the one of the country fair market for them
one the ois ready to be picked.
A fair yield is \$500 quarts to the
acre. Oftentimes the yield is higher.
Since the lightest, sandiest soil

acre. Oftentimes the yield is higher. Since the lightest, sandiest soil seems to suit the berries best, it fellows that this soil must be liberally supplied with manure. The plantation should be manured about every year, at least every other year. I would prefer to give a light application every year if the manure was navallable.

As soon as the cames are through bearing for the year even before, if the market has gone bad, we go through the plantations and take out all old wood. This allows all strength and growth to go into the new wood for the crop of the following year. As soon as the canes are through

HELP WANTED

At once for work on Stock and Fruit Ranch Man and Wife Furnished House provided and everything found. Also Single Man of experience, salary with particular sod experience, salary expected, etc., CRESCENT VALLEY RAIGH, Via Nelson. Crescent Valley, B.C.

Hillcrest Poultry Farm STANDARD WHITE LEGHORNS

I made \$3.53 per bird by selling eggs wholesale in 1950.

106 eggs at \$15, ought to hatch you 75 chicks. From these you raise 35 pullets to the standard of the selling and the selling as the sell

each.

My Breeding Hens for the season of 1911
are part of a flock of 662 pullets which in
January, February and March made a
new record for a flock this size by laying January, solvinary, and the size by laying St. Cookerele heading the Breeding Pont are from trap-nested hene with individual records in their pullet years of 200 eggs. Eggs for Hatching-March and April. 815: May. 812.50; June, 810 per 106.

The soil is kept cultivated through-

The soil is kept cultivated throughout the summer and the rows plowed up too during the fall.

The Kittatinny and the Snyder are favorite varieties. They are the best shippers. The Kittatinny is a little tender and is inclined to winter-kill. The Snyder is very hardy. It is a good shipper and may be sent anywhere. The Erie is a magnificent berry, both for flavor and size. It is a softer berry, however, and is very tender, killing out badly in winter, and hence only cropping about every other year. I much prefer the Sny-



Mr. Wilson and His Thimble Berry Patch The article adjoining gives his method of handling this crop. Photo snapped by an editor of Farm and Dairy.

der. It beats the other varieties with us almost every other year. We are trying the Mercereau. It is of good quality and size but it going to be a very shy bearer.

Growing Cauliflower Plants

A. Knight, Frontenac Co., Ont. To be successful in growing cauli-flower plants, there are three essen-tial things be followed: 1. Proper soil, which so the three properties of the soil, which there is no soil, which the properties of chainable—a loose mall to the con-cident of the soil of the soil of the finer the more roctlets the plant will have, and the more soil will adhere to them when plants are taken up. 2. The seed, which should be the best to be had. 3. Care in growing the plants. To be successful in growing cauli-

plants.

If plants are required for early crop, seed should be sown by first of crop, seed should be sown by first of wharch in a greenhouse or properly made hotbed. The seed be proper warmth to keep plants growing healthy. Plant the seed about one-half an inch deep, and not toc thick, as thick planting makes plants too fine, and they are more apt to damp off. The bed requires plenty of fresh air on warm days to make stocky plants. As soon as the plants are large.

As soon as the plants are large enough, that is, well cut in second leaf, which should be in three weeks

leaf, which should be in three weeks after sowing, transplant an ew bed, which should be made a few days before needed.

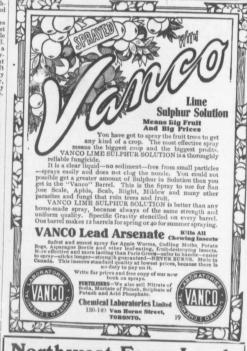
If plants are wanted for extra early, it is better to pot them in fair sized nots, as by doing so you can plant in the field a larger plant, and not check growth. Great care must be taken to prevent any serious check; for plants are apt to have very small heads or "button up" as it is termed, if any serious check occurs in growth.

Segs for Hatching-March and April, \$15:

S. G. HANSON
HILLGREST FOULTRY FARM
BOX 147, Duncan, B. C.

growth.
For late crop, seed is better sown in outdoor ground. Plant not too deen, in warmest and best soil you have. This out the plants while small to make good stocky plants.

Watch for cablage fly, and dust plants often.



Northwest Farm Lands

Half a million acres best selected lands in the Canadian North-

Special excursion in the spring to see these lands. Write now for particulars as to prices and location.

Stewart and Matthews Co., Ltd. GALT, - ONT.

A Few Good Agents Wanted

No Chilled or Overheated Eggs With GUNNS PRAIRIE STATE INCUBATOR

An honestly built, well-insulated incubator box—a powerful, gas-tight lamp—a simple heating system which automatically distributes the heat evenly to every egg—a strong yet extremely sensitive heat regulator—these "Prairie State" features maintain a temperature correct within a fraction of a degree whether the outside temperature be zero or 80 degrees

This even heat, with a plentiful supply of moisture and fresh air, is the reason for the proven superiority of the "Prairie State" over every other

Write for our Catalogue des-cribing the whole "Prairie State" line of poultry equipment and giving valuable information on poultry raising for profits. It's free.

> GUNNS Prairie State Incubator No. 0. -100 hen eggs-\$18.00 No. 1.-150 " - 22.50 No. 2.-240 " - 32.00 No. 3.-390 " - 38.00

GUNNS Universal Hover With lamp, lamp case and smoke conductor \$7.00



GUNN, LANGLOIS & CO., LIMITED, 238 ST. PAUL STREET.

"Gunns Prairie State Incubator Gets Chix."

BeSureYouAreRight

When investing your money you want some assurance that the investment will give you returns that will prove profitable to YOU.



FARM MACHINERY represents an investment of capital and the better the machine the surer the returns-other things being equal. In these days of keen competition the man who has the best machinery is the one who WINS.

Peter Hamilton Machinery has always given satisfaction—ask any farmer who has used it—and it will con-

We offer you a machine of durability, accuracy and uniformity of operation. Such a machine of light draft with all the other good points will prove a profitable investment.

You make no mistake in buying

Peter Hamilton Machinery

See our agent or write for Catalogue F to-day.

The Peter Hamilton Company

Peterborough, Ontario

Profits from Fruit Growing Wm. Clements, Peel Co., Ont.

Wm. Clements, Peel Co., Ont.
Although the consumer generally
pays a very fair price for fruit, it
does not realize any extraordinary
profits to the producer. A basket
of cucumbers will sell for 25 cents.
More generally, however, 15 cents.
a basket is the average price to the
producer. An 11-quart basket costs
three cents, express charges five
cents, selling commission 10 per
cent.—2½ cents, cartage one cent, or
a total of 11½ cents, leaving at the
25 cent rate, 13½ cents for the producer—or at 10 cents, next to nothing.

Tomatoes often sell for as lew as 15 cents a basket. Two years ago, for the better part of the season, they averaged 20 cents a basket. The charges on tomatoes will figure ap-proximately the same as in the case of the cucumbers. The censumer pays at least 40 cents for this same basket, at least 40 cents for this same basket, for which the producer received 25 cents.

The Express Company gets about one-quarter of the gross returns received by the producer. There is, therefore, not so much money in the business for the pro-

40 gallons of the liquid to kill early bit ing insects, such as tent caterpillar-bud moths and case-bearers. If Bo deaux is used the poison may be either deaux is used the poison may be eithe two pounds arsenate of lead or ¼ ll. Paris green; if lime-sulphur is use the poison can only be two pounds arsenate of lead. The Paris green with lime-sulphur will burn.

with lime-sulphur will burn.

(2) Spray again immediately after
the blossoms have fallen and use the
same mixture as for the first applica
tion except that the Bordeaux need
to be stronger than 2-3-40 or the
lime-sulphur than 1 to 40 because the
lime-sulphur than 1 to 40 because the
sulphur than 1 to 40 because the application must be very heavy. Are elbow should be used behind the noz zle for this spray.

zle for this spray.

(3) If the climate is very moist or the weather very wet, or if the Codling Moth is very troublesome, as in the Niagara district, it will pay you to spray once more about two or three weeks after the first application. If the Codling Moth is not troublesome the poison may be omitted and vice versa, if the Scab is not aimed at, the functiced may be left out. Note.—Keep the spray mixture well agritated all the time.

Orchards sprayed in this thorough way should in most districts in an av



One of Many Young Orchards Recently Set in Ontario

While the young orchard is coming into bearing it may be intercropped and thus an immediate rerenue be derived from the land. The illustration herewith shows a young orchard on Jas. E. Johnson's farm in Norfolk Co., Ont., being in tercropped with strawberries. The trees, as shown, might to advantage have been

ducer even if the consumers do pay fair prices. A greater proportion of these prices should go to the pro-

Reasonable profits can only be ex-pected where the produce is shipped in quantities; smaller shippers have little left after deducting charges

To Control Codling Moth (Continued from page 5)

the Codling Moth and by combining a poison with the lime-sulphur or Bordeaux mixture we can control the Cod ling Moth.

In very moist climates it is more difficult to control the Scab than in dry climates. Therefore, in such districts it is u-ually well to give a third spray-ing about two weeks after the second, but in most parts of Ontario our experience shows this is seldom neces-

The Scab is not equally severe every year, but is favored by cold wet springs, such as we had last season. Moreover, not all varieties of apples are equally attacked. Snow and Mc-lntosh Red usually being most sub-ject to it, and, therefore, requiring extra careful spraying.

We must remember that unless every part of the leaf and young fruit is thoroughly covered with the fungiis thoroughly covered with the fungi-cide the spores may get a chance to verminate and so start the disease, hence the importance of very careful spraying. The proper strength of Bordeaux mixture or lime-sulphur to use in each application is mentioned in the following summary: (1) Spray first itsit before the earliest blossoms appear, using either Bor-deaux mixture (4-4-40) or commer-cial lime-sulphur diluted to about 1 to 35. A poison should be added to every

erage year have not less than 90% of the fruit free from worms and 99% even of Snow apples, free from Scab.

A cool moist soil is best adapted to the growth of currants. It should tend towards clay rather than sand.

LAMENESS from a Bone Spavin, Ring Bone, Splint, Carb, Side Bone or simi-lar trouble can be stopped with

Full directions in pamphies with each brails Exte a built as dealers or delivered.

Mr. Robe. Br... Marmora ont, writes April 8, 1907. "Armora valuable horse with a big leg and the completely."

W. F. YOUNG, P.D.F., 123 TEMPLE ST., SPRINGFIELD, MASS LYMANS Ltd., Montreal Canadian Agents

PIGS & CALVES WANTED

Farm and Dairy would like to purchase Yorkshire Boars, Poland China Sow and Boar, and Ayrshire Heifer Calves from 6 to 8 weeks old. Write Circulation Manager FARM AND DAIRY

Peterboro, -Ontario giving prices and ages of animals

POTASH MEANS PROFIT

FARM, ORCHARD AND GARDEN

The sales of POTASH in Canada in the year ending March, 1910, showed an INCREASE of 89% over the sales in the year ending March, 1909.

This is proof that Canadian farmers are becoming more and more alive to the benefits to be derived from the JUDICIOUS USE OF POTASH ON ALL CROPS

This indispensable "plant food" can be obtained from all leading fertilizer dealers and seedsmen in the highly concentrated forms of

MURIATE OF POTASH SULPHATE OF POTASH

Write us on all matters pertaining to the cultivation of the soil and get our free publications including: "Artificial Fertilizers: their Nature and Use," "Records of Fertilizer Experiments," "Fertilizing Orchard and Garden," "Farmers' Companion," etc., etc.

DOMINION AGRICULTURAL OFFICES OF THE POTASH SYNDICATE

1105 TEMPLE BUILDING, TORONTO, Ont.

TH place trees ing A

200

orchi erop But tage I b aroun ting mens flower apple Engls orcha honey

but i ors in each in se result er an fruit fertilis he Beegrowing shou twin si that grower have h ke ep

chards, been gl Cella injury. around trouble O.A.C.,

movo bees fr neighb

Land

160 ac ways in Belt for The s For fi sale and to settle DONAL

HON. J

W. SMITH GI

kill early bi caterpillarsers. If Bornay be either ad or ¼ 1b bur is use two pound Paris gree

2, 1911.

diately after and use the deaux need

40, or the
because this
heavy. Ar

ry moist or the Codling, as in the pay you to yo or three ication. If roublesome d and vice med at, the

adapted It should n sand.

iry ase nd nd

ager tario

es

ld.

FIELD, MASS Agents

ixture well

s thorough s in an av

and 99% om Scab

with each

APICULTURE

Bees in the Orchard

honey alone, but in order that their labors in visiting each blossom in search of in search of nectar, may result in larg-er and better fruit through fertilization of flowers the flowers. Bee-keeping and fruit growing are, twin sisters. It d e monstrated that fruit growers who have had bee ke epers removo their neighborhood

of their or the bees entail chards, have grower been glad to have them return.

Cellar rot is partly due to winter injury. Remove the earth from around the diseased part, cut out the trouble, disinfect with corrosive sub-limate solution and paint.—L. Caesar, O.A.C., Guelph.

Land For The Settler

160 acres of land convenient to Rail-ways in Northern Ontario's Great Belt for each settler. The soil is rich and productive and covered with valuable timber. For full information as to terms of sale and homestead colonization rates

to settlers, write to

DONALD SUTHERLAND.

Director of Colonization, Toronto, Ontario.

HON. JAMES S. DUFF,

Minister of Agriculture, Toronto, Ontario, Ont.

TRY THE SMITH FREE We want a SMITH STUMP PULLER on every stump or imbered farm in the country. It has a cost record of 57 a

Renting Orchards in Lambton County

Roy Wright, Lambton Co., Ont. Roy Wright, Lambton Co., Ont.
The practice of renting orchards in
Lambton County has in the past been
limited to a few consent in making the
have been very successful in making in
neglected orchards, which had in
neglected orchards, which had in
viously been an encumbrance to the
land, yield annual profatable crops.
So that tc-day our farmers are becoming very much interested in the
fruit business. They are beginning
to realize the grand possibilities of
the fruit industry in western Ontario.

Bees in the Orchard

G. W. Tebbs, Waterloo Co., Ont.

The ideal location for bees is in the orchard since of the trees; place four or five hives can be produced. Four or five hives can be according to the control of the control of



Bees in the Orchard Make the Fruit Crop More Certain

Hives of bees in the orchard insure a better distribution of their aid. The honey produced is also a source of profit, and the bees entail little labor during the busy season of the fruit grower

nourishment, and orchards that would have been, under proper care, a grand success, ended in complete

Other planters who seemed to have Other planters who seemed to have more horticultural enthusiasm gave more thought to the needs of their frees. They gave them reasonably good care for a number of years, often until they came to the bearing age. At this stage other factors en-tered in such as spraying, extra tered in such as spraying, extra pruning, and fertilizing, which could not be properly attended to by the farmer, as his time and attention were required by his agricultural operations.

operations. The orchard became entirely negleeted. The foliage became badly
affected by fungus diseases, thus
preventing them from performing
their natural functions. Scale insects
preved on the san. Codling worm and
curculio attacked the fruit. Through
lack of cultivation the soil became
lack of cultivation the soil became
with the result that the orchard began to deteriorate in its prime, and
produced only light crops of very infruit which, of course, breught
recy ow prices. The planter concludtory ow prices. The planter concludent of the course of the course of the course,
and the course of the course of the course of the course
and the course of the course of the course of the course
and the course of the course of the course of the course
and the course of the course of the course of the course
and the course of the course of the course of the course of the course
and the course of th apple business.

Were these planters justified in making such a claim? It is a well constructed in the control of the control of

and who is eager to apply the most modern methods to apple production, is absolutely certain of returns that will well repay him for cutlay and energy expended.

As it had been demonstrated beyond a doubt by a few growers that annual crops of first quality apples could be produced in Lamtton Countrin the midst of many failures, it occurred to us that by making a

specialty of the business we might be able to secure some of these or-chards, either by renting or by work-ing them on shares, and in this way be able to give the owner a fair rent for his orchard and at the same time procure for ourselves returns that weuld well repay us for labor and management. As soon as it became known that we were renting orchards (Concluded on page 25)





Multiply Your Profits With This Proved Farm Power

TOU have invested a certain amount of money in your farm machines—your separator—fanning mill—ensilage cutter—pump.
To make that investment pay dividends, these machines must be operated at highest efficiency and the least possible cost. Years of splendid service have shown that the most efficient oper-

ator of farm machines is an I H C GASOLINE ENGINE

All I H C engines are conservatively rated—each engine easily developing 10 to 30 per cent more than its listed horse power.

The I H C is simple—its parts few and strong. This makes it easy to clean and keep in good condition, and gives it lasting qualities not to be found on more complicated engines.

I H C Gasoline Engines are built IHC Service Bareas

in all styles and sizes, 1 to 45-H. P., vertical and horizontal-stationary, portable, or tractor.

of tractor.

No matter what work you want done there is an I H C to do it. See the I H C local dealer and pick out the engine you need. Get it to work saving you time and money and in-creasing your production. If you prefer, write for catalogue and full information to nearest house.

CARADIAN BRANCHES—International Harvester Company of America at Brandon, Calgary, Edmanton, Hamilton, Lethbridge, London, Montreal, North Battleford, Ottawa, Ragina, Saskatson, St. John, Weyburn, Winnipeg, Yorkton.

The purpose of this Bureau is to furnish farmers with information on better farming. If you have any worth y question concerning soils, crops, pests, fortilizer, etc., write to the I H C Service Bureau, and learn what our

International Harvester Company of America Chicago (Incorporated) USA

FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.



I. FARM AND DAIRY is published every Thursday. It is the official organ of the Rritish Oolumbia, Manitoba, Eastern and Western Ontario, and Bedford District, Western Ontario, and Bedford District, the Canalism Tolostein, Ayrahire and Jer-sey Cattle Breeders' Associations.

2. SUBSCRIPTION PRICE. \$1.00 a year, strictly in advance. Great Britain, \$1.20 a year. For all countries except Canada and Great Britain, add 500 for postage. A year's subscription free for a club of two new subscriptors.

REWITTANCES should be made by Post Office or Money Order, or Registered Letter. On all checks add 20 cents for exchange fee required at the banks.

4. CHANGE OF ADDRESS — When change of address is ordered, both 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.

receding the following weeks issue.

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

CIRCULATION STATEMENT

The pald subscriptions to Farm and Dairy exceed 8.000. The actual circulativa of each issue, including copies of the paper sent subscribers who are but slightly in arrears, and sample copies, varies from 5.000 to 18.000 copies. No subscriptions are accepted at less than the full subscription rates. Thus our malling lists do not sandinh any dead circulation. subscription rates. Thus our malling lists do not contain any dead circulation.

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

OUR PROTECTIVE POLICY

We want the readers of Farm and Dairy to feel that they can deal with our advertisers with the feel of the control of the cont

FARM AND DAIRY PETERBORO, ONT.

WEALTH WE DO NOT RETAIN

At the convention of the Saskatchewan Grain Growers' Association held recently in the West, the members passed a resolution endorsing the stand taken by the farmers' delegation at Ottawa, in regard to the single tax. The single tax is really a tax on land values. Such a tax, if applied on a broad scale, would be of untold value to the farming community. The value of land in cities is created largely by the farming community around the cities. Land values are so high in cities, like Toronto and Montreal, that under the single tax one or two acres of city land would frequently be taxed as much as a whole county of farming ties, which have done so much for land. A tax of this kind is the only way in which farmers could get back for them.

much of the wealth which they now create, but which is flowing into the hands of a few private parties. A small piece of land in Ottawa recently increased in value \$33,000 in one month. The cwner of that piece of land pocketed that money, although he did nothing to increase the value of the land in question.

Some day we farmers will begin to see that we are creating great wealth which we do not retain for ourselves. When we do, there will be a complete change in our systems of taxation.

SOME MONEY IN APPLE GROWING

Some enthusiastic apple growers contend that were the land along the lake and river front from Toronto to Montreal which is suitable for apple orchards planted out with apple trees, the land so planted would in a few years be worth \$300 per acre. It is furthermore contended, and on this point prominent growers have testified, that from 10 to 17 per cent. dividend may be made from apple crchards reckoning the land at a valuation of \$1,000 per acre. Mr. B. J. Case, of New York State, and Mr. A. E. Sherrington, of Bruce County, Ont., at the last convention of the Ontario Fruit Growers' Association, gave testimeny to the effect that they had made such profits from their orchards. Many other men are known to have made over 10 per cent. from their apple orchards, valuing them at \$1,000 per acre.

There is money in this orchard business. Even neglected orchards, which had passed almost into decay, on being renovated and managed according to approved orchard practice, have been made to give forth remarkable results. It begins to look even to the layman as if there were money in this business of apple growing. And the idea is catching on. Large areas of land are yearly being planted out to apple orchards; this year nurserymen report unprecedented heavy sales and stocks de-

All conditions point to a gloricus future for apple growing in Ontario. It is well that this is so, and that the favorably located land, in the old banner province of Ontaric, which for so many years grew grain and was valued at from \$50 to \$100 per acre, is gradually, yet none the less surely, being devoted to the production of apples and other fruits, thereby enhancing its value to \$300 and more per acre.

The day of intensive specialized farming, fruit growing, and dairying has arrived sometime since in Ontario. Those in the province who to-day are making the greatest returns from their farm land are the ones who have recognized this fact and have specialized in dairying and in fruit growing. Others in the province who are not satisfied with the yearly revenues from their farms as now managed ought seriously to consider the prospects of these specialothers and which can do equally well

ANENT RENTING ORCHARDS

From his experience in leasing orchards, Mr. Roy Wright, of Lambton Co., Ont., gives elsewhere in Farm and Dairy this week some informaticn of much interest. To lease neglected orchards is now becoming a practice quite common. Within the past year several companies have been formed for the express purpose of leasing several thousand acres of neglected orchards in Ontario, and by the application of up-to-date management reap a profit therefrom.

We farmers have been neglecting our opportunities. It is a reflection on us that capitalists can take our neglected orchards, pay us a rental for the same, operate them with highpriced hired labor, and still make a profit. In some cases these companice are planning to pay farmers, the owners of these orchards, to do most of the work. The rental to be paid will vary from \$10 to \$25 a year, according to the condition of the orchard

While we are very unprogressive to lease our orchards for such small returns, and be content to watch someone else reap the larger share of the profits, there is a bright side to the situation. We will get splendid ob. ject lessens on how to manage an orchard profitably. We will see it demonstrated that our cld orchards can be made more profitable than we ever dreamed; and furthermore, the orchard during every year that it is under expert management will become more valuable. Many old orchards, which otherwise would gradually have died out, will be restored to productiveness through the renter, then be continued in productivity through the owner when the lease expires.

It should be much more profitable for us, however, did we undertake for ourselves the renovating of our old orchards. Why not do it?

FRESH VEGETABLES GROWN AT HOME

Why is it that in so many farm homes fresh vegetables in season, and in abundance such as only a farmer's garden can provide, are scarcely known at all? The planting of the garden comes in one of the busiest seasons of the year; hence, unless the work has been planned before-hand, it is apt to be neglected altogether. With a little ferethought there is no reason why the planting of the kitchen garden should take a great deal of time, or delay unduly other most necessary spring work. With a proper layout of the garden, everything planted in long rows so that practically all of the work can be done by horse power, labor would be reduced to a minimum.

We farmers cught to have vegetables continuously, starting with asparagus, spinach, and rhubarb in the spring, on throughout the summer till we reach the late vegetables in the fall that are stored for winter. regular supply of green vegetables gives variety and healthfulness to the diet and reduces grocery and meat bills

Let us seek to provide such a sup-

ply. Plan the garden and order the seeds now. Seed catalogues of the firms advertised in Farm and Dair are a great help in planning the gar Write for them and order you seed early and have such a garden that every neighbor who sees it will decide to "go and do likewise."

APPLES MUST BE SPRAYED

Now that the Ontario Apple Buyers Association has passed a resolution prohibiting its members from buying apples from men whose orchards have not been sprayed, as they did at their annual meeting last fall, spraying will, if this mandate be lived up to. be made absolutely necessary. Some action in this direction has been need ed. Nothing else has such a depressing effect upon the market or tends so strongly to a condition of over-production as does poor produce. One barrel of poor apples does more to create over-production and low prices than 12 barrels of good ones. Last year in Ontario nct 20 per cent. of the apple crop was marketed as No. 1

In many parts of Ontario new interest is being awakened in orcharding. Young orchards are being planted extensively. Old orchards are receiving more care than heretofore, The profits from spraying old and neglected orchards have been abundantly demonstrated in many of our fruit sections through demonstration orchards, but there is still much room for improvement in every section. In some sections no spraying whatever is practised. If the apple buyers will live up to their resolution, and absolutely refuse to take fruit from unsprayed orchards, much good will re-

PRACTICAL SUBJECTS IN SCHOOLS

The recommendation made by the Ontario Fruit Growers' Association to the Ontario Government at their last annual meeting, that lectures on insects and fungus pests be given in rural schools, particularly in the fruit districts, is a commendable one. Too much time is spent in our schools on subjects, which will be of little value to the scholar in his after life. Studying the life habits and methods of control of the insect and fungus pests, which the rural child will have to combat during his natural life is of such importance as to justify these being taught.

Why not have studies of this nature incorporated in the readers? Ontario school readers, in fact the readers in any of the provinces, do little more than teach a pupil how to spell and write with grammatical precision. Grammatical precision and spelling can be taught equally as well if the subjects dealt with are cf a practical nature.

The readers used in the schools of France, teach subjects of a practical nature. Questions of soil physics, mining, and manufacturing are treated in a simple way in the elementary readers. The children are therefore early lead to enquire into the natural and industrial phenomena which lie all round them.

tratic ful in value are a two . thing to a abilit Dairy the G

contai

thereb

Dairy

next a

Annus

Get y

M

Th

on t

but

regu

medi

Fo

veu i

ing f

from t it wor Our that h years a

Star

Var

tion un by our cases r the cla Even t are pro are not eties as are loca varietie they wi them a which t

While will be apples, Ear

Apr

ket for Transpa markete # 25 cents growers paid. Es apples t ing, wh trade is have be in the 1 sults to jection t come at not care Anyone,

season, i Send u your own

market

d order the nes of the and Dairy ing the gar order your h a garden sees it will wise."

RAYED ple Buyers

resolution rom buying chards have lid at their ved up to sary. Some been need a depress t or tends f over-proluce. One s more to low prices nes. Last r cent, of as No. 1 o new in orcharding plant ds are re-

bundantly our fruit ation or uch reom ection. In natever is yers will and absofrom unwill re-

eretofore

and neg

CHOOLS by the sociation at their lectures

ests be ticularly ommend is spent hich will ar in his e habits e insect ring his

naturo Ontario ders in è more ell and ecision. spelling if the prac

ance as

ractical hysics. treat. entary therete the omena

ools of

This sort of thing should be adopted in our rural schools. Extra lectures on these subjects are not called for but they could be embodied in the regular work of the school through the medium of the school reader.

For your consideration we present you this week with our Third Annual Orchard and Garden
A Request Number. We have of You spared neither time

nor expense in securing for this number the best of illustrations, the most practical and helpful information of a dollars and cents value to you. It costs you-if you are a regular subscriber-less than two cents! Wouldn't it be a good thing if you would pass this issue on to a neighbor? He would in all probability like to subscribe to Farm and Dairy, did he but know of it and of the Great Dollar's worth of reading it contains. Ask him to subscribe and thereby help us to make Farm and Dairy still better than ever. Our next special issue will be Our Third Annual Dairy Number, out April 6. Get your neighbors in line to profit from that special issue. We will make it worth your while.

Our standard varieties of apples that have been grown extensively for years and are well known and popular

on the market are the Standard safe ones to plant. New Variables varieties can well be left out of considera-

tion until favorably pronounced upon by our Experiment stations. In many cases new varieties do not live up to the claims that are made for them. Even those varieties of trees, which are producing apples of a good quality are not as profitable as are such varieties as Greening and Baldwin, which are located in the same orchard. New varieties are not known to buyers and they will not pay as high a price for them as for standard varieties with which they are acquainted.

While the greatest demand always will be for fall and winter varieties of apples, we should not overlook the fact that in all of our large

Early cities, and in the west. there is a profitable if Apples somewhat limited mar-

ket for the earlier scrts. Yellow Transparent and Astrachan apples marketed in Toronto have returned # 25 cents a standard basket to the growers after all expenses have been paid. Each year the shipments of early apples to the west have been increasing, which would indicate that this trade is profitable. Duchess apples have been shipped to Great Britain in the last few years with good results to the shippers. The main objection to early apples is that they

nessessessessessesses

Thos. McMillan, of Huron Co.,
Ont., like Mr. Drury, is also an On.,
Ont. like Mr. Drury, is also an On.,
I consider the present of the property of the the present forward of organized agriculture. Though a McMillan has taken a life-long interest in the abstacken a life-long interest in the abstack

wide experience in business life, has given him op-portunities to portunities to study and discern these matters but few of us far-

mers. McMillan was born upon the old homestead of which he is now owner. For now owner. For 10 successive win-

Thos. McMillan.

Thos. McMillan. 10 successive winfrom 15 to 25 years of are, he enthusiastically engaged in the inspiring work of discussing all the varied
questions which naturally come beflow an old-time debating society.

The successive is a successive in the successive in the successive in the successive into the successive into the successive into the successive into recognition in the
earlier days of farmers' institute
work. As a lecturer at institute
work. As a lecturer at institute
work and as a judge of animals,
he has visited almost every county in
Ordario, and has also been engaged
in agricultural educational work in
other provinces of the Dominion.

Along with his father and brether, Mr. McMillan was also for many years actively engaged in the export cattle trade to Great Britain, and in the importation of Clydesdales, in which business one member of the firm always followed the shipments in person. This experience enabled him to gain a first hand knewledge of the different cattle conditions, pressibles, is actual conditions, pressibles, is to gain a first hand knewledge of the actual conditions prevailing in free trade England, the price and values of British goods, cost of living, and so forth, which information thus gained proves to be invaluable when applied to the discussion of the trade and tariff question, as it is now be-ling brought home to the great mass of

of Canadians.
During the season of 1905, before
the Government Tariff Commission,
Mr. McMillan ably presented the farmers' case, at its sitting in London,
Ont. Since that time he has made a
centinuous study of the tariff question from the standpoint of the farmer as well as from the point of view
of the great both the point of view mer as well as from the point of view of the great body of our consuming population, with the result that he believes and is able to present con-vincing testimony to prove that the Canadian people have been nursing a fiscal system, which has the effect of robbing the farm, and robbing the breadwinners of the nation, to build up great cities and nourish million-aires.

An Awakened Giant

come at a time when the farmer does not care to be bothered with them. Anyone, however, who will pick and market early apples in their proper season, is sure of good returns.

Send us one new subscription with your own renewal. The two for one year for \$1.60.



You Won't Believe It

There's no use telling you over and over again that the

De Laval

Cream Separator

will actually save you one hundred per cent. per year on your investment.

TRY IT FREE Then You Will Believe It And looking back-won't you be sorry. SEND FOR CATALOGUE

THE DE LAVAL SEPARATOR CO.

173-177 Williams St. MONTREAL

WINNIPEG

VANCOUVER

THE HANDIEST TH

ABOUT A CARDEN WHERE BUSHES AND FRUIT TREES ARE TO BE TRIMMED IS A PAIR OF PRUNING SHEARS LIKE THE ONES SHOWN IN THIS ILLUSTRATION





Given Away

FREE FOR ONLY ONE NEW SUBSCRIBER

Fruit Trees, Currant and Gooseberry Bushes, Grape Vines, Rose Bushes and Shrubs of many kinds about your place, need pruning. This pruner is the most convenient tool that is made for doing this work

Send us one New Subscription to Farm and Dairy taken at our exceedingly low subscription rate of Only \$1.00 a Year, and in return therefor we will send you by post prepaid a pair of these splendid Pruners.

It is easy to get one new subscriber to Farm and Dairy. Show this copy of Farm and Dairy to your neighbor. It contains information worth dollars to him. Tell him of our Eight Special Magazine Numbers. Tell him of our Illustrated Supplements, and of the many practical and helpful articles that appear in each issue of Farm and Dairy. He will surely subscribe.

Cash commissions and many other valuable premiums are given away by Farm and Dairy in return for the new subscriptions you get for us.

See your neighbor to-day about taking Farm and Dairy. Get his subscription and get these Pruners.

Circulation FARM & Peterboro Ontario



is honest if you put it through the

OUR SYSTEM OF

Woodward Water Basins increases the milk flow and increases your DAIRY PROFITS. Not only

that but IT SAVES MUCH TIME AND LABOR There is only one Woodward but lots of imitations—BEWARE ONTARIO WIND ENGINE & PUMP CO TORONTO.

DAIRYMEN. ATTENTION!

BEFORE BUYING DAIRY SUPPLIES

DAIRY MACHINERY CONSULT

G. A Giliespie PETERBOROUGH, - ONTARIO

MAN WANTED

take charge of a small herd of register the energy of Vancouver Island, B.C. defends of the energy o

Watering Milk

Creamery Department

Butter makers are invited to send contribulions to this department, to an expension of the tribulion of this department, to an expension of the tribulion of this department, to an expension of the tribulion of this department, to an expension of the tribulion of this department, to an expension of the tribulion of this department, to an expension of the tribulion of the department of the conditions of t

Creamery Department

Ratter makers are invited to send constitution, unless protected in an insalated box, there can be lit.

Ratter makers are invited to send constitution, unless protected in an insalated box, there can be lit. In one day is trobutions on matters relating to but set of the constitutions of the constitution of the constitution

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



Saskatchewan Dairymen Recently Assembled in Convention at Regina

Our illustration herewith shows those enthusiastic dairymen of Saskatchewan who met recently in annual convention in Regina. Some of the men in the front row were the speakers at the meetings and are well known to many the lattern Dairymen; from left to vight, not in the front row are: Wm. Newman, Lorneville. Ont.; Geo. H. Barr, chief of Sask.; C. L. Marker, Supt. of Dairying for Alberta; and O. Boyd of Moosejaw.

How Do You Judge Fencing?

Are you an expert? Do you know a good piece of fencing when you examine it? Or do you judge a certain make of fencing from the records it has made with your neighbors?

No matter how you judge fencing, you'll find the quality of the Leader fence fully up to your standard. It's a fence you can purchase with confidence, for our name stands high in the estimation of fence buyers. Our long experience and our reputation are a guarantee that Leader fence is top-notch in every respect.

Built throughout of No. 9 hard steel wire with a double-grip lock, and galvanized according to our own specifications, the Leader fence will give you lasting service. It is built to withstand the severe extremes of the Canadian climate. You cannot buy more value for your money. If you pay less than the Leader price you simply get lower quality.

Send for our booklet. It contains fence facts you will be glad to know. It describes the Leader fence and the double-grip lock in a clear and interesting manner. It is a booklet you ought to have in your hand this very minute. We will also send a Leader fence lock free, if you'll ask us for one.

Tell us if you are ambitious to become an agent for a complete line of farm and ornamental fence and gates. We've a good proposition for unrepre-

sented districts. Leader fence is a wonderful seller-and we heartily co-operate with our agents in securing sales.

Frame & Hay Fence Co., Ltd. STRATFORD. ONTARIO



M Dair tion interdair, the The agan

had Th ing y nipe

year

most

FOR S

TWO CE WANTE -Mrs. BUTTER preferation, O FOR SA New fi parties Cream

WANTE small stating D. Ure WANTE WANTE

tory.
one for
two y
dress J WANTEL TO RENT cey Ro situated calities Walker, Middless

CREAMEI

wrong, get a is ungat to be record day and che se it. In our meries, our hrough thick

Dairy?

to many to many chief of rying for

ence

setting less seep a culture re lightly and re about five well to place se of it being ver ripe conthe prope

> The officers elected for the following year are: Pres., J. P. O. Allaire: 1st Vice-Pres., L. A. Race, Brandon; 2nd Vice-Pres., W. E. Bonner, Winnipeg; Sec.-Treas., L. A. Gibson, WINDMILLS Towers Girted every five feet apart and double braced Grain Grinders Pumps Tanks Gas and Gasoline Engines Concrete Mixers Write for Catalogues GOOLD, SHAPELY & MUIR CO., LIMITED BRANTFORD - CANADA WINNIPEG, MANITOBA

OFFICERS ELECTED

March 2, 1911.

FOR SALE

Cheese factory, good buildings and equipment, good dwelling above curing room. For further information address D. C. FLOTO, . 171 BALDWIN STREET TORONTO, ONT.

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

WANTED-100 Pekin Duck eggs at once -Mrs. W. P. Mickle, Comet, Ont.

BUTTERMAKER WANTED-Frst-class ex-perienced buttermaker at once. References preferred. Apply to D. Grant, Beaver-ton, Ont.

FOR SALE—One ten h.p. Upright Boller. New flues. Will sell cheap. Write for particuars. John M. Sherk, Pt. Abino Creamery, Bidgeway, Ont.

WANTED—First-class cheesemaker for small factory in Essex county. Apply stating references and experience to W. D. Ure, Fairplay, Ont.

WANTED-A man to do general farm work, a good plowman and milker, a yearly engagement to the right man. State age and wages expected.—Apply Harold Jones, Maitland, Ont.

WANTED—Two men to work in cheese fac-tory. One man for seven months and one for six months. Men with one or two years experience preferred. Ad-dress J. H. Mannell, Springfield, Ont.

WANTED—Persons to grow mushrooms for us in waste space in gardens, yards, sheds or cellars, \$15 to \$30 per week. Send for illiustrated booklet and full particulars.—Montreal Supply Co., Mon-

TO RENT—For a term of years, the Min-cey Road Cheese and Butter Factory, situated in one of the best farming lo-calities and near railway.—Apoly Archie Walker, Secretary, Burwell Road P.O., Middlesex C.

Middlesex Co.

FEMBER FOR SALE—Well equipped and in running shape in one of the best mixed farming search of the best mixed farming search of the manufactured last year about 8,000 its of butter. Close to railroad, good water and coal mines, one acre of land, large rame building and muchinery must be rame building and muchinery must be removed to the search of the CREAMERY

Winnipeg; Directors—District Nc. 1, discory. Time and time again I have G. K. Breekman, Lundar; No. 2, refused to take milk rejected at another factory, but at the same time Joubert, St. Pierre; No. 4, J. J. Ring, Crystal City; No. 5, Geo. Steele, M.La. Glenboro; No. 6, J. R. W. Stanton, Hamiota; No. 7, J. R. Subtitt, Shoal Lake; No. 8, J. R. Why cannot we cheese makers get Norbitt, Shoal Lake; No. 8, J. R. Why cannot we cheese makers get together and have an understanding with each other, whereby we can refused for the control of the contr Manitoba Dairymen Convene Manitoba Dairymen Convene
The energy and enthusiasm with
which the delegates to the Manitoba
Dairymens' Convention in Winnipeg
recently engaged in their deliberations was but revettion of the new
interest that is now graden in dairying throughout Manitoba and
the entire west. The present, J. P.
O. Allaire, St. Boniface, as the conthe work of the dairymen for the
nast year as having Leen satisfactory.
The amount of butter produced but
oben greater than during preceding
rears; the output of cheese had been
most encouraging. The milk supply
had doubled.

The convention was one of the most successful ever held by the Association since its organization over 20 years ago. A number of prominent authorities delivered addresses. Amongst those who sucke were Geo. H. Barr, Chief of the Dairy Division, Ottawa; Professor J. W. Mitchell, of the Manitoba Agricultural College; Professor Bedford, Professor W. H. Peters, and E. H. Farrell, of the Manitoba Agricultural College; and T. B. Tustin. Chief of the Food Division of the Health Department of the City of Winnipeg.

TUBERCULOSIS The question of bovine tuberculo-sis and its relation to the health of the human family was discussed by the human family was discussed by Mr. Tustin. He illustrated his talk with specimens of tubercular organs of various animals. A striking illus-tration used was that of a liver weighing 58 lbs., which had been taken frem a tuberculous cow. Since it has been demonstrated that bovine tuberculosis is communicable to man, the speaker pointed out that the the speaker pointed out that the dairymen who sells milk to cities and dairymen who sens mix to cities and towns for consumption by infants and children, his cows being tuber-culcus, is no less a criminal than the man who strikes an innocent baby in

TRANSPORTATION OF MILK AND CREAM A report brought in at a business session concerning the matter of transportation of milk and cream, is of much interest to dairymen generally. As Farm and Dairy readers will recall, the Manitobo Dairyment's Association early last season made an effort to secure better rates on sweet cream and better conditions of handling the milk by baggage. The Railway Commission, after hearing the evidence placed before them in this connection, issued an order that TRANSPORTATION OF MILK AND CREAM connection, issued an order that sweet cream for butter making should be carried at the same rate as sour cream, also that whether the loading was done where there was an agent or not, a receipt for the number of cans said to contain milk should be given to the shippers. The Execu-tive Board expressed to the convention that the services of Professor Mitchell to the association had, dur-Mitchell to the association had, dur-ing the past year, been invaluable. Professor Mitchell had appeared be-fore the Railway Commission and had been very active in securing their decision.

Reject Bad Milk

Reject Bad Milk

W. D. Clapper, Peterboro Co., Ont.
One point on which cheese makers are lamentably weak is that they
be the farmers dirty or over ripe milk.
If the control of the control of the farmers dirty or over ripe milk.
If the control of the control of the control of the devantages of delivering good
milk. If all makers would throw
down dirty milk, there would be no
trouble in getting patrons to take
care of the product. Half of the farmers dump the milk into a cam with
out straining and think that is all
they have to do.
If is rather difficult, however, for,
one maker at the next factory will take
it in. Makers should stand together
to take milk rejected at another, W. D. Clapper, Peterboro Co., Ont.

The time is here when the cheese-maker must put up a fancy article. We cannot do it if the patrons do not give us good milk and we should have authority to reject all milk that

will not make first-class cheese.

I do not say that I would send back bad milk from a patron who usually sends good milk, without giving him an explanation. If the otherwise good patron did send in milk slightly sour. patron did send in milk slightly sour. I would take it in, do the best I could with it, and visit that patron personally to see what was the matter. Such patrons will remely defects when their attention is called to them. But to the careless patron I would send it back.

I am enclosing \$1 for my renewal subscription to Farm and Dairy. I have taken Farm and Dairy for two years. It is a fine paper for any home. I am going to change my stock

as your paper has helped me to find the Holstein breeders.-G. L. Turner, Sherbrooke Co., Que.





are the only one of their kind. Yet Tubular sales easily exceed most, if not all, others combined, and Tubulars are probably replacing more common separators than any one maker of such machines sells. Why is this? It is because Tubulars are later than, wholly

Why is this? It is because Tubulars are later than, wholly different from and very superior to all others. Tubulars are built on the only known principle for overcoming the many parts and many disadvantages of other separators. This construction gives Tubulars twice the skimming force of other separators, enables Tubulars to skim faster and twice as clean as others, and makes it entirely unnecessary to use disks wings or other separators are mades. to use disks, wings or other complicated contrivances in Sharples Dairy Tubulars.

Sharpies Dany Tuouiars.

Dairy Tubulars are thus the most efficient, only simple, most durable, and only really modern separators. You want a modern machine, and will not be satisfied until you have one. So why not get a Tubular in the first place and save yourself the expense, loss of cream, extra work, and disappointment sure to follow the purchase of a "peddler's" or any other complicated or (so called) cheap machine?

Warn can own and use a Tubular for less than any other warns alfelime. Ourarnited forever by the oldest separator concern on this continent, One of Canada's leading industries. In use a few continents of the continent of the co

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

WESTERN LAND FOR SALE

In areas to suit purchasers, from 160 acres upwards, situated on or near railways in the Best Wheat, Oat and Stock Growing Districts of

SASKATCHEWAN AND ALBERTA

250,000 Acres to choose from

Prices low. Terms generous and helpful. Special inducements given actual settlers, and those requiring blocks for colonization purposes.

Write for particulars. Reliable agents wanted in every county.

F. W. HODSON, & CO., TORONTO, ONT. Room 100 Temple Building

Branch Office:-North Battleford, Sask.

During 1910 we sold over 133,400 acres; during the past four years we have sold over 400,000.



CONTENTMENT comes neither by culture nor by wishing; it is reconciliation with our lot, growing out of an inward superiority to our surroundings.

The Road to Providence

(Copyrighted)

MARIA THOMPSON DAVIESS (Continued from last week.)

(Continued from last week.)

SYNOPSIS OF THE ROAD TO PROVIDENCE

Mrs. Mayberry. A SYNOPSIS OF THE ROAD TO PROVIDENCE

dense, has taken into he hearty physicians widow, living near the town of Providence, has taken into he heart physicians with the providence of the synopsis of the syno

66T'LL be here, and thank you forordinos or attention, answered ing glance at both his mother and Miss Wingate he took himself off in the direction of the barn, for the purpose of saddling his horse for his afternoon visit to his patients beyond

the Nob.

"Ain't he good to look at?" asked
Mother Mayberry as she watched his
tall figure swing down the garden
path. "Good looks in a man can be
a heap of pleasure to a woman, but
she mustn't let en to him."

"I believe," said Miss Wingate in
a improvement with the control of the control
improvement in the

T believe," said Miss Wingate in an impersonally judicial tone of voice, "that Doctor Mayberry is the very handsomest man I ever saw. One would almost call him beautiful. It isn't almost call him beautiful. It isn't entirely that he is so tall and grand and has such eyes, but—do you know I think it is because he is so like you that he is so lovely." And the singer lady tucked her hand into Mother Mayberry's with a shy blush.

"Liking folks kinder shines 'em up,

same as furniture polish, hencebird," laughed Mother Mayberry with de-light at the compliment. "You're a-rubbing some on me and Tom May berry. But he were the best favored baby I most ever saw, if I do say it, as shouldn't."

'Oh!" said Miss Wingate delighted-

as snounn:
"Oh!" said Miss Wingate delightedly, "I know he must have been lovely!
What was he like?"
"Well," answered Mother reminiscently, "he were abcut like he are
now. He come so ugly I cried when
I seen him first, and Dector Mayberry teased me about it to the day
of his death. He called Tom "Ugly"
for short. But he mighty soon begun to sprecut little pleasing ways, alooking up under them black lashes
and a-laughing acrost my breast. His
cheeks was rosy, his back broad and
his legs straight, same as now. He
teethed easy, walked soon, have never
learned to talk much yet, and had his
measles and whooping-cough when his learned to talk much yet, and had measles and whooping-cough when his time come. I just thought he were time come. I just thought he something 'cause he were mine. babies is astonishing miracles to they

"But I'm sure Dr. Mayberry was really wonderful," said Miss Wingate, instantly sympathetic "Had he always such black hair?"
"Borned with it. Now, my little His net returns for the first year were \$10.05 on a

in an anxious consideration of her future, realizes that his strongest desire ties to be able to restore her power to size.

LL be here, and thank you for—the Doctor, and, with a laughter than the Doctor, and, with a laughter than the desire that the process of the process of

I took it as a message and a sign that my Lord hadn't forgot me, and I ain't never mistrusted Him again. Come, let me show it to you."

CHAPTER V.

THE LITTLE RAVEN AND HER COVERED DISH

Wednesday morning dawned clear Wednesday morning dawned clear and bright. From our Providence Nob the round red old sun looked joivailly and encouragingly down up-on Providence, up and stirring at an unusually early hour, for in the mid-week came Sewing Circle day and the usual routine of work must be the sun of the every housewife the proposed of the sun o the usual routine of work must nelaid by before the noon meal, and
every housewife in condition to foregather at the appointed place on the
stroke of one. Mrs. Peavey had
aroused the protesting Buck at the
peep of dawn, the Pikes were all upand breakfasting by the first rays of
light that fell over the Ridge, and the
lower biscuits had been baked in
the control of the control of the control
to the control of the control
to the control of the control
taking down the store shutters,
and Mr. Netway agane. Downally taking down the store shutters,
and Mr. Mosbey was building the
blacksmith shop fire. Cindy had
milked and started breakfast and
Mother Mayberry had begun the difficult task of getting the Doctor up and
ready for the morning meal. Martin
Luther had had a glass of warm milk
and was ready for an energetic atAbove, the singer lady had been
awakened by the brushing of a whitecapped old locust bough against her
casement as it attempted to climb
with all its bloom into her dormer
window. As she looked through the
mist, a long golden shaft of light
shot across the white flowers and
turned the tender green leaves into a
bright yellow. Suddenly a desire to
get up and look across at the Nob
get up and look across at the Nob
get up and look across at the Nob
grid that held the decided charm
of novelty. And on this particular
morning she found it more than
morning the found it more than
morning she found it more than

sun upon the scene or action was a sight that held the decided charm of novelty. And on this particular morning she found it more than worth while. Providence lay at her feet like a great bouquet of filacs, long the standard fruit blossoms. The early man fruit blossoms with long spears of sold and the standard fruit blossoms with long spears of sold and the standard fruit blossom with long spears of sold and upon the standard fruit blossom spears of sold and upon the standard fruit blossom spears of sold and the standard fruit blossom spears of sold and the standard fruit blossom spears of sold sold fruit blossom spears of spears of sold fruit blossom spears of spears

to complete a dainty and most ravishing breakfast toilet, "exclaimed "Why, honey-bird," exclaimed Mother Mayberry as she descended the steps and found them all at break fast in the wide-open dining-room "what did you get up so soon for It's Wednesday, and the Sewing Circle meets with me, so Cindy and us must be a-stirring, but I had break fast in my mind for you two hours from now. You hadn't oughter done it. Them ain't orders in your pre-scription."

it. Them and to the scription."

"I'm so hungry." she pleaded with a most wickedly humble glance at the Doctor, who was busy consuming muffins and chicken grayy. "Can't I have a breakfast now, Doctor—and the other one two hours later? the other one two hours later? Please!"
"Yest," answered the Doctor, "but

Please III

"Yest," answered the Doctor, "but don't forget the two glasses of cream and dinner and some of the Sewing and dinner and some of the Sewing Farty refreshments, to say nothing of the same of the Sewing out of us to eat before seeking out of us to be a same of the Sewing out of the Sewing out of the Sewing out of the Sewing of the Sewing out of

"Good me Road sister Mayberry!" he said cheerily esough, though there was an expression of anxiety experience of the said cheerily esough, though there was an expression of anxiety experience of the said cheerily esough, though I would find you up, even at this unusually early hour. Your lamp is always burning to meet emergencies. Mrs. Bostick is not well this morning and I came up to see if you could find a moment to step down to see her soon. I also wanted to ask Thomas to stop I also wanted to the thomas the thomas to the thomas the thomas to the thomas the thomas th

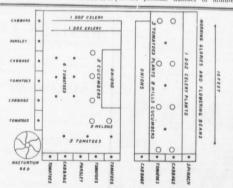
"Why, of course, we will both come right away. Deacon! What did she eat last night for supper? She oughter be careful about her night eating."

oughter, be careful about her night eating,"
"Let me see," answered the Deacon thoughtfully. "I think we both had a portion of milk and toast administered by our young sister. Elias Pike, I recall I pleaded for some of Pike, I recall I pleaded for some of Mrs. Bostie will in the lar you gave Mrs. Bostie will be a poke the pleaded of the pleaded of the pleaded with a pleaded with the pleaded with affectionate pride of the pleaded with affectionate pride of the pleaded with affectionate by the stern Eliza.

having been vanquished by the stern Eliza.

Just at this moment from around the corner of the Pike home came the young woman in question, with a pitcher in one hand and a covered dish in the other. Ez followed her with a plate wrapped in a napkin, and Billy brought up the rear with a bucture with a plate way to the property of the p

(To be continued.)



Plan of Prize Garden, Grown by a 12-year-old Boy, Maynard Fraser, Russell Co., Ont.

Ma

prizo

ared have

for th

with his g

farme of his

of ms

0 enly of his

See art turns s deserve \$1.50 v sent to

"Afte last spr making to look corne are so

Maynard Fr Read h

many bu spot I co south we by 20 ft. as a dum ising as I away all loads of adding at well spad Then I melons, ra

tuce, and tomato pl On the empty ora one end I bage or pa we cut a strong bra

onion bed

d most ra exclaima descende ining-room soon for Sewing Cir sewing Cir-ndy and us had break-two hours ighter done your pre-

leaded with ance at the consuming y. "Can't loctor—and urs later octor, "but

y nothing ng to make fore seek oing to be e refreshered him. eaching to the child erry, and work. We

s of cream

??" asked isobedient ed at the ady begin eakfast. and watch and watch vants and e a-doing Deacon! s!" And ut of the it gate to s coming

ugh there ty on his I would unusually s always s. Mrs. s. Mrs.
ning and
ld find a
her soon.
s to stop
v over to
he is not

did she er night he Dea-we both oast ad-er, Eliza some of ou gave

nly de-Deacon ide over ne stern around ame the with a covered ved her a buc-sloshed step. I Eliza break-when I

light 'cause Deacon nce at corner fasting I was

to see

Prize Garden Contest

Last Spring Farm and Dairy offered prises for the best garden made and cared for by our boy readers. We have been pleased to award the prize for the best garden to Maynard Fraser, of Russell Co., Ont. Maynard is cally 12 years old and from the plans of his garden which we publish herewith and the illustrations of him and his garden. we are inclined to think and the care of the sarden we are inclined to think and the care of the sarden we are inclined to think the care of the care o with and the illustrations of him and his garden, we are inclined to think that he is bound to be a progressive farmer some day. The arrangement of his garden seems a very good one, and when it is considered that the cost of material was so small and his re-



A Prize Winner in His Garden

See article and plan of garden in this

turns so great, we must admit that he deserved the prise. An order for \$1.50 worth of seeded to plants was sent to Maynard that of them to plant in his garden may have them to plant in his garden to warnab's LEFTER TO UT.

"After reading in Farm and Dairy last spring about the offer you were making to your boy readers. I started to look arcund our small village lot for a corner to make a garden on. There are so many trees on the lot and so



Maynard Fraser, 12 years old, in his Prize Garden Read how he made \$10.15 net profit on its little garden last year. See plan of his orden in this issue.

many buildings near that the only goot I could find was the one on the south was to the stalle. It was 10 by 20 ft., and had slways been used as a dumping ground for refuse from the stable. It did not look very promising as I surveyed it. After cleaning away all the rubbish, drawing a few loads of earth from the woods and adding about a bushel of ashes it was well spaded and worked.

Then I planted onions, cucumbers, melons, radishes, parsley, spinach, lettuce, and set out cabbage, celery and tomato plants. These cost me \$1.00. On the south east side we placed empty orange crates close together. In one end I put a tomato plant and in the other a low growing plant, cabage or parsley. As the tomatoes grow we cut away all but three good strong branches, all others being kept down.

The cucumbers started to cover the

ground and tied them all up; made them run up and then dewn, by pinching of the vine when can one was about three yards long. They were covered with cucumbers of all sizes all summer. Will give a list of contents of garden with market prices at which I could have sold what I grew.

rices as will be a factor of the control of the con pails onions
 5 pairs green tomatoes
 .45

 3 pairs ripe tomatoes
 .75

 Two plantings of radish
 .50

 Parsley and spinach
 .50

 Prizes at Fair
 5.75

...

Pruning Moss Roses

What is the best time and the best way to prune moss roses? They produce lots of wood and few roses. The ground is a clay loam.—W.N., Kent Co., Ont.

The best time to prune moss roses, or any of the hardy roses, is early in the spring as soon as the growth buds show signs of starting (usually about the first week in April). The time of pruning depends upon the season. Moss roses should be pruned by cut-ting away or shortening the last season's growth, leaving about three or four inches of the base of the growth made last year. With strong growth made last year. With strong growth made last year. With strong growth made last year are the root, these can be to be the strong row the bottom near the root, these can be used back to about twelve or fifteen and the last growth should be removed if the buds growth should be removed if the buds growth of good strong wood is necessary.

... **Fvery Farmer and His Garden**

Fvery Farmer and His Garden

ED. LANE, WATERLOO CO., ONT.

Get a man or woman contented with
their food and they are different persons altogether; if they enjoy their
food they are more likely to enjoy
their work. Hence the great value
of a garden and the stuff that may
be grown therein. If we turn a part
of the farm into a garden it is not
all extra work as we have only the
same number of acres that have to be
same number of acres that have to
same number of acres
that may be acres
that the control of the control
that may be acres
that number of acres
that n

all are we not here for enjoyment in this life.

How nice it is, a couple of weeks after the frost has left the ground to go into the garden and cut a bunch of asparagus and cook it for dinner, and this every day for six weeks or more. To break the menotony of this a number of meals of greens as good as cabbage can be picked from cabbage stumps. If we have done as we should and stored the cabbages, roots and all and saved the stecks to plant close together as soon as the frost is close together as soon as the frost is close together as soon as the frost is offer than the store of garden orach to pick from which of garden orach to pick from which of garden orach to pick from which as the store of garden orach to first hings to state it is one of the first things to state it is one of the first things to state of the store of the first of the store of the same may be said of sweet vour carrots. There is no reason why we can not have green peas on the table the last week in June or the first in July.

FRUITS AT ALL TIMES

PRUITS AT ALL TIMES

to cut away all but three good trong branches, all others being kept own.

The cucumhers started to cover the cucumhers started to cover the cream after a hard day's work, enjoyable alike to rich and poor. We

have the land and manure and we have the cream. With a little fore thought and exertion we can have the strawberries to and at a season of the year before any wild fruit come in. We may have raspherries and black berries and we should also have a few bushes of gooseberries and black, red and write currants. By this time we will be into the apple, pear and plum season. With a little forethought we can have fruit every week in the year. Another table delicacy enjoyed by

Another table delicacy enjoyed by most people is celery. This we can grow readily and it will be available at least three months in the year.

CAPABLE **OLD COUNTRY** DOMESTICS

arriving weekly in summer, fort-nightly in winter. Apply now, The Guild, 71 Drummond St., Montreal

No. 3 Brownie Camera

Pictures 31/4 x 41/4. Price \$4.00.



This latest addition to the popular Brownie family meets the demand for a camera, which is equipped with the essentials for a high-class of amateur work, but is its with a ceru the children can use it with a ceru the children can use a chromatic lens, Eastman rotary shut: with camera has the first quality meniscans achromate lens, Eastman rotary shut: with lens and control of the control of th

Ask your dealer or write us for a free copy of "At Home With the Kodak," our newest booklet,

CANADIAN KODAK CO., Limited TORONTO, CAN.



CAN YOU BEAT

SEND us this ad, together with the special price mentioned below, and we will send you, PREPAID, a beautiful Gulpure Lace Coat Collar exactly like the above illustration, length 21 inches, with inches, your choice of ceru or ivory shade. Examine it carefully in your own home and if you don't find it the best value you ever saw, and worth at least 38c, return it and we will refund your money without question. Our special price 19c.

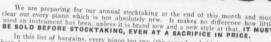
PAQUET'S SPRING BARGAIN Catalogue No. 28

this space. Write for a copy of this Catalogue to-day-it's FREE.



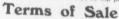
Mail Order Department QUEBEC CANADA

STOCK-TAKING SALE USED PIANOS



In this list of bargains, every piano but two (the second and third on the list) have been but very slightly used. They are in every way up-to-date in design, quite like new in appearance, tone and mechanism. Most of them were taken in exchange for Gourlay-Angelus player pianos, otherwise their former owners would not have parted with them.

They are fully guaranteed the same as new pianos and will be shipped on approval to any point in Canada. If not entirely satisfactory, we will pay the return freight.



Pianos under \$250-\$10 cash and \$6.00 per month Pianos over \$250 and under \$350—\$15.00 cash and \$7.00 per month. Pianos over \$350-\$50.00 cash and \$10.00 per month.

A discount of 10 per cent, for cash. A Handsome Stool accompanies each Piano.

MENDELSSOHN—A mahogany upright piano by the Mendelssohn Co., in small size suitable for small apartments. Case of simple but attractive design, with smooth surfaces throughout that are easily kept clean. Seven octaves, double repeating action. 3 pedals, etc. Has been used less than 9 months. Sale Price. \$198

NEWCOMBE-75 octave, cabinet grand upright piano by the Newcombe Piano Co. Toronto, in handsome rosewood case, with plain polished panels. Has full tricbord scale, double repeating action, etc. Is in fine order. Original cost, \$375. Sale Price \$205

MENDELSSOHN—A very handsome cabinet grand upright piano by the Mendelssohn Piano Co., Toronto, in rich, dark walnut case, full length music desk and panels. Boston fall board, ivory and ebony keys, etc., Colonial design. Used less than 15 months, Sale

MoMILLAN—A very handsome walnut cabinet grand upright piano manufactured by us in our own factory, first class in material and workmanship throughout. Has full iron frame, fine double repeating action. 3 pedals, dulciphone or practice muffler, ivory and ebony keys, etc. Used less than a year. Sale price.

HEINTZMAN & CO.—715 octaves, full size cabinet grand upright piano by Heintzman & Co., in richly figured walnut case of elegant design. This piano is in every way quite as good as when new, both in tone, action and appearance. Special Sale Price.

COURLAY—An almost new Gourlay piano of Boudoir style, in rich walnut case with full length carved panels. Boston fall board, 3 pedals, etc. This piano throughout is of "Gourlay" quality, both in material and workmanship, better cannot be made. Has had but a few months' professional use and is a decided bargain at the special price \$305

Very Special Bargain

GOURLAY-ANCELUS—This is the first time that we have been able to advertise a Gourlay-Angelus player-piano at a bargain. This instrument is the finest model of Gourlay Plano, containing the celebrated Angelus player action with Melodant, Phrasing Lever and other Angelus exclusive devices. This instrument can be used either by means of the Angelus or can be played by hand as desired. The regular price is \$875. Illustrations and further particulars of this exceptional opportunity will be sent unon request. Special Sale Price



The Rudbeckia (Golden Glow) J. McP. Ross, Toronto, Ont

Its perfect hardiness and the fart can be grown almost anywhere that it can be grown almost anywhere added to its easiness of propagation, have made the rudbeckia rather too have made the rudbeckia rather too familiar in some localities. Never-theless, they are a beautiful class of plants, and an indispensable border

Its proper place is at the back of the border next to the fence, where the border next to the fence, where its tall spikes of bloom show to advantage. It grows to a height of five to six feet, preducing masses of puryellow double flowers in great freedom—lighting up the neighborhoo like a fick of yellow butterflies, and from which ample cuttings can be from the from which ample cuttings can be from the from the first property of the from the first property of the first



Golden Glow in Blossom

cultivation, but there are many other single varieties equally desirable and floriferous.

and floriferous.

It is necessary sometimes to tie the clump to a centre stake to prevent the stalks breaking dewn with the wind, as the abundance of flower blooms make them top heavy in showery or windy weather.

windy weather.

A few plants of rudbeckia make quite a show. They bloom from July to September, and thrive under all conditions of neglect or cultivation. The best results are obtained when they are given ordinary care. As they are strong growers they require manure annually. When you do not need to plant again, or cannot give the plants away, they may be kept under control by digging surplus growth under. under control growth under.

Timely Suggestions

Spring will soon be with us. Have you made due preparations for it? Have you all the extras ready, such as labels, stakes, flats, cold frames, botheds and so forth.

Send for the seed catalogues advertised in Farm and Dairy. Make up your list of seeds and other may your list of seeds and other may be used to be used. The work of the w

back ornamental trees and shrubs. All transplanted stock that was moved last fall should be headed back be-fore growth begins. Flowering shrubs that bloom on the new wood can be pruned back hard new to make an alundance of bloom for the spring.

The vou v what away. Ma terial

from or tw

of str

M

placed at lea the f and of well v job ne raise order escape on tor pends inity. Niagai tario later i

verben

um, so or pots is time seeds in sweet I sik see the tin outside three in the tin seed When pout of disturb

Every The t our Dor climates be work spinach. leeks ar snow af ground sley and ating, of of lettuce tuce wil mark th the space beets, ca varieties

als of t of vegets new this sow or plima Lear dive, Chi tivated d Home-

early by which the taken, or Cover th cold days If you house, sa garden a

ing that i growing. garden an this sprin olden Glow onto, Ont

ch 2, 1911.

and the fact f propagation, ities. Never nsable bord

t the back of fence, where show to ad-height of five nasses of pure neighborhoc atterflies, and ings can

is one most

are many

to tie the the wind, or blooms howery or kia make

from July under all ltivation. ned when are y require u do not not give be kept surplus

18 s. Have for it? dy, such

ues ad-Make her ne n good rly you ng you t. month

king firmly. bs. All moved ack be-

shrubs can be ake an ring.

Valuable Garden Hints

A. B. CUTTING, B.S.A., TORONTO A. B. CUTTING, B.S.A., FORMTO
The best gardens are those that
have been planted beforehand. If
you wait until time for seed sewing
you may not have time to do just
what you would like. Decide now on
and order plants and seeds right away.

THE GARDEN HOTBED THE GARDEN HOTEED
Make a hetbed. Prepare the material now. If the manure is fresh
from the stable, throw it in a heap
for a week or 10 days. Turn it once from a week or 10 days. Turn it once or twice during that time. Use manifest of the contains a fair preportion of strain of the contains a fair preportion of strain in Pit, and the contains a fair preportion of the frame. Have the minutal and one half feet deep. Tramp it well when building and finish the job neatly. After placing the frame, raise the sash for a couple of days in order to allow superflow moisture to escape. Use about six inches of soil on top of the manure.

escape. Use about six inches of soil on top of the manure.

The time for starting a hotbed depends upon local climatic conditions. These notes are for Toronto and vicinity. The work is done earlier in the Mingary and Essay ponjustules of On. inity. The work is done earlier in the Niagara and Essex peninsulas of Ontario and in British Columbia, and later in other parts of Ontario and in Quebec and the maritime provinces.

SOW FLOWER SEEDS

SOW PILOWER SERDS
Sow seeds of nasturtiums, petunias,
verbenas, cosmos, lobelia, antirrhinum, salvia and mignonette in boxes
or pots. Six or eight weeks before it
is time to start plants in the open is
about the right time to sow most

seeds inside.

About the first of March sow a few About the first of March sow a few sweet peas seeds indoors for planting outside when the time comes. Put is a seed sin each five-inch pole. By the time you would be sowing seeds outside you will have strong plants three inches or four inches high. When the time come these plants may be placed 10 inches apart in trenches. When planting knock the ball of earth out of the out of the out of the carefully, and do not district. out of the pot carefully, and do not disturb the roots.

disturb the roots.

Every garden should have an asparagus Led. Start one this spring.

The time for sowing vegetable seeds out-doors varies greatly throughout our Dominion with its wide range of dimates. As soon as the corresponding to the control of the contro climates. As soon as the ground can be worked nicely, sow seeds of peas, be worked nicely, sow seeds of peas, spinach, lettuce, parsnips, parsley, leeks and onions. A little frost or snow after these seeds are in the ground will not hurt them. As parground will not hurt them. As par-sley and parsnips are slow in germin-ating, often taking four or five weeks, it is a good plan to sow a few seeds of lettuce in the rows with them. Let-tuce will come up quickly, and will mark the rows; it will be used before the space is needed for the parsnips

the space is needed for the paranips.

A week or later, sow beans,
beets, carrots und salsify. Sow early
varieties of mid salsify.
Also if two weeks from and at interplas soon as pen and at interplas of two weeks from and at interplas of two weeks from the variety of
vegetables, why not try amounts,
new this year? For a greater wathing,
new this year. For a greater wathing
wathing the property of the proper dive. Chinese mustard, cress and cul-tivated dandelions.

tivated dandelions.

Home-grown rhubarb may be had
early by placing a barrel or box, from
which the top and bottom have been
taken, over a clump in the garden.
Cover the top at night and during
cold days. cold days.

If you are burning wood in the house, save the ashes for use on the garden as a fertilizer. Keep them

FRUIT GROWING

There is no feature of home gardening that is more interesting than fruit growing. If you have no fruits in the garden and have room for them, plant FRUIT GROWING this spring.

Insects and fungous diseases are no respecters of persons. They do not confine their depredations to the orchards and gardens of the commercial growers, but find as congenial conditions and as tasty food in the gardens of farmers and annateus. To hold them in check we must spray this to early this month to do anything more than make preparations. Purchase a knapsack spray purif the garden is small. A barrel pump is better, however, and will last longer. Three or four neighbors could club together nicely in the purchases of one. If you cannot do the spraying ourself, employ some person to de it. If you do not know what to use consult the articles on spraying that appear on other pages of this issue, and also the advertisements of firms that deal in spraying apparatus and mixtures. Insects and fungous diseases are no that deal in spraying apparatus and

Cure for Scalds and Burns

It may not be generally known that a poultice of raspberry leaves is probably the quickest remedy to re-lieve bad scalds or burns. During the summer the green leaves will do, or dried ones. We always keep a supply of dried leaves on hand in case of need.

Make a tea of the raspberry leaves by steeping in boiling water for a short time. Pour the hot liquid over

by steeping in boiling water for a short time. Pour the hot liquid over some bread and apply it to the scalddod or burned surface, as you would a bread and water poultice.

The relief is quick and permanent. By repeating the poultice a few times, the skin under the blistered part is quickly healed. I know of several cases where instant relief has resulted and have never known this remedy te fail. Do not open the blisters. They will open when they are ready. The skin may be raised in blisters or it may even come off, it matters not, the rasplerry poultice cases the burnings and heals the skin, reducing the tenderness. I would be glad were this generally known.—Alice A. Ferguson, York Co., Ont.

... Don't forget seeing your friends and having them join in for a club of subscribers to Farm and Dairy.

3-16. There are many professing Christians who are keenly conscious of a lack in their spiritual experience. They lead upright, Christian lives, and they desire to be the means of bringing others into the Kingdom of Goal best when they are orniging others into the Kingdom of God, but when the opportunity to speak the word in season presents it-self there is that within them which holds them back and which may even make them feel that it would be profanation to make the at-tempt. Wives often desire to con-vert their was often desire to con-vert their husbands and sons and vert their husbands and sons and deughters; daughters, their fathers and brothers; fathers and brothers, their wives and daughters and sis-ters. Nevertheless, the seal is on their lips, which frustrates all their

When this is our experience we when this is our experience we will be a spirit of God-wonderful thought-dwells within the heart of each true believer. We are to blame if it is not dwelling within us in power. We must have the Spirit of God in power before we can bland others to Christ. lead others to Christ. lead others to Christ. lead of the spirit of God in power before we can be spirit of God in power before we can be spirit of God in power before we can be spirit of God in power before we can be spirit of God in power before we can be spirit of God in the spirit of

and ambition and self-seeking, and everything that is contrary to God's law, the Holy Ghost will come and fill every corner of our hearts; but if we are full of pride and conceit, and ambition and self-seeking and pleasure and the world, there is no room for the Spirit of God. Many a man is praying to God to fill him with power, when he is full already with something else. Before we pray that God will fill us, I believe we ought to pray to Him to empty us. There must be an emptying before there can be a filling. When the heart is turned upside down, and everything is

The Upward Look

Living in Power

"Know ye not that ye are the temple of God, and that the Spirit of God dwelleth in you?"—I. Corinthians, 3-16.

There are many professing Christians who are keenly conscious of a lack in their spiritual experience, They lead upright Christian lives.

say, "How did you get it? I need this power, you have something that I haven't got; I want it."

"Let us ask God to forgive our sins, and anoint us with power from on high. But remember, He is not going to the power to an impatient. high. But remember, He is not going to give this power to an impatient man or woman, He is not going to give it to a selfish man or woman; He will never give it to an ambitious man or woman whose aim is selfish, till first emptied of self; emptied of pride and of all worldly thoughts. Let it be God's glory and not our own that we seek, and when we get to that point how specifily the Lord will bless us for good."—I. H. N

...

Before it is too Late

Before it is too Late
if you have a gray-hained mother
In the cld home far away,
Sit you down and write the letter
You put off from day day.
On't wait until her wear years
Reach heaven's pearly gate,
But show her that you think of her
Before it is too late.

you have a tender message, Or a loving word to say, Don't wait till you forget it, But whisper it to-day.

But whisper it to-day.

Who knows what bitter memories
May haunt you if you wait?
So make your loved one happy
Before it is too late.

The tender word unspoken, The tender word unspoken,
The letters never sent,
The long forgotten messages,
The wealth of love unspent;
For these some hearts are breaking,
For these some loved ones wait;
Show them that you care for them
Before it is too late.



Recesses telegraphy **OUR HOME CLUB** ressessessessessesses.

A Higher Education for Boys and Girls

Dear me! Things do get so muddled Dear me! Things do get so muddled. The present all-absorbing topic with us is: "Shall the Farmer Give his Boys and Girls a higher Education than the furnal Schools provide for." Some actually say "No." They argue that many sent to the High School or Guelph College turn out mere cads, will not work and out a false idea of Guejh College turn out mere cads, will not vork and get a false idea of farm work, are crammed with all sorts of theories are crammed with all sorts of theories the six of theories are six of the college. All College graduates do not with the higher education such as the college. All College graduates do not make successful doctors, ministers, lawyers, etc., and very often in many cases the most successful are our own farm boys. There are boys also who would not be anything else but farmers. It is such who would appreciate ers. It is such who would appreciate ers. It is such who would appreciate would not be anything else but farmers. It is such who would appreciate a course at Guelph and would profit by it, not those who are playing at farming. There is a fitness in it and we seem to be so blind to cur opportunities. It is putting farming on a poor basis to have a college at the top of the ladder and then say we can get on well enough alone. A working practical knowledge of Botany, Chemistry and Physics etc., added to experience in a poor to the farmer to get the very most out of life. te get the very most out of life ere are as great wonders as real joys unknown to the uninitiated in his



HOME DYEING has you use



JUST THINK OF IT! ith DY-O-LA you

SEND US 750 for only 75c and 10c postage TANDARD GARMENT CO

HOME JOURNAL

electricity, etc., was to the scientist and more than that the successful and more than that the successful farmer of to-day must reduce his work to a science and he can't have toe much education to do it, and no other profession or work is capable of giving so much real happiness or interest as that of the intelligent farmer, "Nature's Gentleman." Won't some of the Home Club help me cut? —"Aunt Faithie."

... Housekeepers and Homemakers

What we need just now are fewer "housekeepers" and more "homemakers." That the country can boast of ers." That the country can boast of splendid housekeepers unlimited, no one disputes for a minute. The im-naculate houses shining from much application of broom and scrubbing brush, the cellars and pantries fairly brimming with eatables galore, and the tired looking women who accom-cible, all this rea cleanured withnesses to the tired looking women who accom-plish all this are eloquent witnesses to the same. Nevertheless there is much room for the home maker, and the chief of her characteristics is the art of simplifying.

As a matter of fact Mrs. A. feels it As a matter of fact Mrs. A. feels it a burning disgrace of is disgrace of the control of the count of the cou

One of these "dandy housekeepers" one of these "dandy housekeepers" is apt to receive the suggestion that some of this wholesale pastry baking might be curtailed with scorn. She imagines she would lose caste among her neighbors, and "the men wouldn't like it."

like it."

Now as a matter of fact, the average man is an extremely reasonable being. He is as a rule much more likely to be satisfied with a plain, well cooked meal, to be eaten with a neat, good-tempered wife, in a neat, good-tempered wife, in a louse arranged to be "lived in," than in an "uncomfortably cleam" house, and mostly reserved for "company," and a tired, dispirited woman though a tired, dispirited woman though she be the maker of pastry unlimited. She be the moker of pastry unlimited will be a support of the suppo

she be the maker of pastry unlimited.

Now, do not for a minet imagine
that I do not realise that good food,
well cooked, and plenty of it, is an
absolute necessity. But housekeep,
or who awase a plentiful housekeep,
or who awase a plentiful property to be a property
tigested puddings of rice, easily
digested puddings of rice, bearing,
taptica, etc., with all the supply of
which belong to every farm, will find
the need of great quantities of which belong to every farm, will nuo-the need of great quantities of pastry greatly minimized, while she has supplied a far more healthful diet, with much less labor on her part. diet,

CLUB NOW

for the four best Canadian

All 4 For nly \$2

or your choice of

Farm and Dairy\$1.00 \$1.10

Farm and Dairy\$1.00 }\$1.35

Farm and Dairy\$1.00 The Home Journal.... 1.00 Canadian Horticulturist or Poultry Review.....60

Address, Circulation, Manager

FARM & DAIRY Peterboro -Ont.

accomplish sometiming and a good training, especially nursing, will only help any woman to be a better wife be it on the farm or wherever it may be. Some farmers are too slow and if they have been rather successful in getting a little money past them they too fresh fraid a wife would spend it too fresh fraid a wife would spend it too fresh to make the house that makes the home but the love that is within," and I believe the man and wife who marry and are obliged to eccomosise and gather things about the middle of the section of the sec Some farmers are too slow and ney have been rather successful preciate their home far more than the couple who start where father and mother left off. Wake up you farmers, there are lots of good women left yet and you know Leap Year only comes once in four.—"Aunt Jane."

THE COOK'S CORNER

Bedpee for publication are requested, inquiries regarding cooking, on the control of the con

ROLLED OATS AND FRUIT.

Make a porridge in the usual way, but sweeten alightly, and turn into buttered cups. Set away to cool, and then turn out into individual catmeal dishes. Pour peach preserves over each one and serve with whipped

CHERRY JELLY

Put the cherries, not fully mature, in a crock and let stand on the back of the stove or in a slow oven till all juice is extracted. Then strain and cook down to about one-third the quantity. Measure this and allow 1 b. sugar for each pt. of juice. Heat to be a sugar spearately, then to be sugar for each pt. of juice. Heat to be sugar for each pt. of juice. Heat to be sugar for each pt. of juice. Heat to be sugar for each pt. of juice and sugar separately, then to be sugar for each pt. of juice. Heat to juice and sugar sugar for each pt. of juice. Heat to juice and sugar sugar parts of cherries and currants, or equal parts of cherries, sand sugar parts of cherries, sand currants.

POTATO SALED.

POTATO SALAD.

POTATO BALAD.

Season a pint of cold boiled and sliced potatose with salt, pepper, mustard and chopped salons. Over this pour a dressing mag and follows: Cut about 3 slices of bacon and try brown, then add a tablesp. Gour. Stir till amooth and the salour stirll amount salour stirll amount salour stirll amount salour salou

APPLESAUCE CAKE

One cup sugar, ½ cup butter, 2 cups florr. In another vessel have I large cup apple sauce, ½ cup raisms, ½ cup putters, ½ cup currants, ½ cup black molasses, I teasp. cinnamon, I teasp. coves, a little nutmeg, pinch of sait. Mix well, add to the other ingredients. Bake for at least ½ of an indice aggs are not used in this cake, neither is there any milk required.

Aunt Jane's Comments

Where are all the members of our Where are all the members of our Home Club gone? Surely some of them will be aroused when they read the article: "Why fare do not heartly," by Rob Rorars do not heartly agree with him in steme of his ideas I cannot in all. I think he should have satisfied our uriosity by telling us whether he was one of those poor unfortunates who cannot find a wife cr one of the fortunate class. He speaks of the girls who had been the school mates of those men being now trained nurses, etc., in seme city. He doesn't surely expect the girls to sit around all summar waiting, waiting for some one to when the to marry. Credit to any girl who will step out with a determination to will see the sing of the something and a good training, especially nursing, will only the state of the side of the something and a good training, especially nursing, will only

我也也也也也也也也也也也也也也也也也 The Sewing Room

Patterns 16 cents each. Order by g ber and size. If for children, give for adults, give bust measure for wa and waiss measure for ekirts. Addres-orders to the Pattern Department.

Nesseconsessessessesses CHILD'S DRESS, 6887



Guimpe frocks are the prettiest for litor body portion, cut in one wi short sleeves, and with exceedingly simple in making. This one is loped edges. It can be left plain and trimmed to suit the For a girl 6 yra.

For a girl 6 yra.

is required 3½ yds.

for material 27 in.

wide, 2½ yds. 35 yds.

44 in. wide.

The pattern is cut
for girls of 4, 6 and

8 yrs.

ONE-PIECE BLOUSE 6894



Here is a simple, attractive blouse that can be treated in several ways. In this case it is made over a guimpe liming between the control of the control of

dressy occasions.

For the 16 yr. size is required 1½ yds. 32 in. wide, or 1½ yds. 35 or 44 in. wide with ½ yd. of silk 2′ is. wide for the trimming portions, ¾ yd. of all-over lace.

The pattern is cut for misses of 14, 15 and 18 yrs. of age.

OR FOUR-PIECE SKIRT, 6891



PHECE SKIRT. 897a.

This skirt is practically skirtly specifically skiple it can be made with a seam at the centre front and so centre front and so from the material with 0 with 0 will be seamed of can be made with 10 wild material. In this case the flow in the seamed over the front and back to seame front and back to the front and back with the seamed over the front and back when the seamed with the seamed over the front and back when the seamed with the se

ing, burrows of but tons the front and back portions and seeming 45 bold them to the front and back portions and seeming 45 bold them to the feetive treatment.

For a medium size is required \$\foat{5}\$, yds. \$\foat{5}\$ or \$\foat{2}\$ yds. \$\foat{5}\$ or \$\foat{2}\$ yds. \$\foat{5}\$ or \$\foat{2}\$ yds. \$\foat{6}\$ yds. \$\

... Pattern for a Jack Rabbit



ing excelsior, cotton or bran can be used, but in this case bunny is made of white cotton flannel.

To make the rabbit will be required % yard of material either 27 or 44 inches wide. The pattern is cut in one size only and will be mailed on receipt of 10

CARE IN ORDERING

Be sure and state size, also number of patterns. De not send illustrations of patterns. Order by number and size only. Your address is also quite

Devi An i tates t brush i and D Simeoe. is repr

th

F

art

bac

dec

furi

er f

sugi

M

pain

Dose

Hou qual B

Brook

V

centre r siderable To rak

the pole end to 2½ or t

**** Room

6887 pe frocks and ettiest for li ls. The yole dy portion, one with sleeves, and ngly simple in This one is with It can t plain and

a girl 6 yrs.

tired 3½ yds.

terial 27 in.

½ yds. 36 yds.

wide.

attern is cut
s of 4, 6 and

6894 ns a simple of blouse of blouse of blouse of the second of

e 16 yr. size
red 1½ yds.
wide, or 1½
r 44 in. wide
yd. of silk 27
for the trimrtions, ¾ yd.
er lace.
ttern is cut
es of 14, 16
rs. of age. KIRT, 6891

kirt is pracwell as in
an be made
eam at the
eam at deal
oon narrow
without
or joinings,
made with
am at the
out, if out
e material,
ase the finnple stitch
ows of butunged over ows of but-inged over and back and seeming hem to the like an ef-atment. red 5½ yds. yds. 44 in.

4, 26, 28, 30 abbit

f animal nd aled harmless, any hap-fer the x. Any y mater-the stuffis made

er 27 or size only

trations ber and so quite

"Why, It Looks Like A New Room"

That's what everybody says when you decorate your home with Mur-

Its soft and delicate tints turn a room with dingy walls and ceilings into a place of charm and beauty.

Muresco is an artistic wall finish Muresco is an artistic wall finish that can be applied direct over smooth, hard plaster surfaces, or over metal or hardwood. It comes in many tints and shades, and it can be applied by anyone.

For Walls and Ceilings

Muresco is used in thousands of artistic homes. It gives a restful background for pictures and wall decorations. Decorative effects may be produced by stencils which we

Ask your paint or hardware dealer for Muresco, or write to us for suggestions and designs.

Moore's Pure House Colors

We are makers of a large line of paints and varnishes for every purpose-sold ready to use. Moore's House Colors touch the highest

quality possible in paint-making. BENJAMIN MOORE & CO. Brooklyn, N. Y. Cleveland, O.

Carteret, N. J. Toronto, Can. Chicago, III,

Device for Gathering Brush

Device for Cathering ortan

An implement that greatly facilitates the work of hauling and piling
brush from an apple older was descriled recently to an edit of Farm
and Dairy by Mr. W. For Simcoe, Ont. A sketch of the device
is reproduced herewith.

The device consists of two poles

sists of two poles

3

51

sists of two poles about 14 feet leng, held together by three rounds. The poles at one end are placed at such a distance apart as poles is convenient for a man to hold them not unlike plow handles. The other ends of the pole are placed five feet a-part. A rather stout round is plac-ed in the centre ed in the centre. The other rounds are placed one each on either side of the centre round

the centre round about 3% feet from it. A logging chain centre round from the ched wa the this chain, which should be of considerable length, the team is hitched. To rake up the brush, a man takes the poles in hand, raising the one end to a convenient height, about 2% or three feet from the ground, 2% or three feet from the ground,

brush lies.

The brush packs in between the poles and the chain in tight sheaves. The fire should be going scon after the start. The team may be driven up close to it and the whole rakeful dumped right on to the fire. Those who have used this device for raking brush claim that it is surprising how the Lrush holds together and how readily it burns when hauled and piled in this manner.

Renting Orchards in Lambton County

(Continued from page 15) (Continued from page 15)
we found men on all sides willing to
turn their orchards over to our care.
We were careful, however, to secure
orchards of good winter varieties,
which had not deteriorated so far as
not to respond immediately to good

not to respond immediately to good care.

AND THEY LEASED THEIR ORCHARDS
Most of the men with whom we had taked the matter over, fully realized that they did not have the time to give their orchards proper care; that give their orchards proper care; that they did not have the had not made and the land; that they had not made and the land; that they had not made and the land; that they had not made the land; that they had not made that they were not acquainted that the habits of injurious fungus and could not successful control them. They realized that through neglect a rapid depreciation that had so the lands of a specialist.

Since orchard peats have become so prevalent, and with the markets of the world more exacting as to quality, it is utterly impossible to secure lay, it is utterly impossible to secure value did not reverse is true when the method of apple production are followed.

There can be no definite rules laid

production are followed.

WHAT IS A PAIR RENTAL?

There can be no definite rules laid down as to what is a fair rent per acre for all orchards, as there is a vast difference in the earning power of different orchards, according to a considered by the principal factors to be Some of the principal factors to be Some of the principal factors to be some of the principal factors to the factor of the principal factors to the factor of the principal factors to the factor of the principal factors to be some of the principal factors to be some of the principal factors to be factor of the principal factors to be factor of the principal factor of the principal factors of the principal factors of the principal factor of the prin

In some cases orchards are rented In some cases orchards are rented for a number of years at a given amount per year. Other farmers pre-fer to let on the share plan. The renter taking over the entire management of the crehard, doing all labor and taking all expense of growing and harvesting the crop until it is laid on the ground. The renter

while another man drives the team down between the trees where the brush lies.

The brush packs in between the poles and the chain in tight sheaves. The fire should be going scon after the start. The team may be driven up close to it and the whole rakeful dumped right on to the fire. These

Where reasonably good orchards can be secured on the feregoing terms, there is a gran opperainty for the would-be apple grover in a gaze in a profitable business without buying an orchard, and at the same time make unprofitable orchards yield good returns to the owners.



How "Eastlake" Steel Shingles will save you money

Talk No. 7

Galvanizing

The Philosopher of Metal Town

There is only one way to galvanize shingles properly.

Extravagant claims made by some manufacturers simply mean that their product is inferior.

"Double" galvanizing would chip off, leave the metal bare, and do more harm

The "Eastlake" process means that every plate is pickled, scoured and cleansed before galvanizing.

No roughness, rust or dirt can adhere to the metal, thus it is impossible for the galvanizing to scale or peel off.

"Eastlake" Steel Shingles are galvanized once, and only once. "Eastlake" Steel Shingles are best

for all buildings-the only roofing proven permanent by an actual test -in perfect condition after 25 years of wear - fireproof, lightning - proof and stormproof.

Use "Metallic" Corrugated Steel for barn siding, implement sheds and granaries. It is easily erected, absolutely weatherproof and economical no wood sheathing required-simply nail to framework.

Let us send you our illustrated booklet, "Eastlake Metallic Shingles," also booklet containing all these talks. Write to-day-a post-card with your name and address



Manufacturers of Metallic Building

The Metallic Roofing Co.

Toronto - Winnipeg A66

Agents Wanted in Some Sections

The "Bissell" is unbeatable for crushing stiff, lumpy soil

The "Bissell" land roller will pack your soil better The "Missell' labor roller will pack your soil bester than you've ever had it done before. Its heavy steel plate drums are rivetted together every two inches. The pressed steel heads keep the drums absolutely stiff. The angle steel cross braces and the steel plate bottom in the

frame make the frame perfectly rigid. It's this exceptional stiffness that make: the "Bissell" vncrushing stiff, lumpy soil. It It runs easily, too. It has large 1-2 inch roller

ings at ends of the roller. The centre drum, which supports the heavy two-inch axie, makes the "Bissell" easier to turn at the ends of the field. The Draw Bracket permits low hitch. There is no neck weight on the "Bissell." Of course, such a superior roller is widely imitated. So, for your protection, be sure and see that the "Bissell" name is stamped on the roller you buy. No other is the genuine "Bissell." You can have the "Bissell" Land Roller in 6, 8, 9 or 12 ft. length, and with Grass Seeder Attachment. Ask Dept. R for roller catalog.

T. E. BISSELL Co., Ltd., Elora, Ont.

(Continued from page 11)

(Continued from page 11)

Pears are not successfully grown north of latitude 45 degrees except in some favored localities and along the lower St. Lawrence. The Flemmish Beauty is the hardiest of the better varieties and is one recommended to those how wish to try pears. This variety succeeds very well in favored situations on the Land of Montreal and at Oka, near the Ottawa River. It has not the Ottawa River. It has not proven sufficiently hardy at Ottawa. The Russian varieties, though hardy, are of inferior quality and subject to fire blight

Cherries, like European plums, are not hardy enough for the north except near large bedies of water where cept near large occurs of water the air is not so dry as it is more inland. They thus do very well along the lower St. Lawrence.

Hardy Fruits For Cold Climates the flower buds are usually killed. the flower buds are usually killed. Those which bear crops more frequently, and honce may be considered the hardiest, are Orel 25, which appears to be the most hardy. Minnesota Ostheim, Cerise d'Ostheim, Vladimir, and Orel 24. Morniorency is good but is not quite as hardy in the flower bud as the others.

At the Experimental Farm, Otta-

At the Experimental Farm, wa, there have been nearly 200 es of grapes tested. Many of the varieties only ripen when the season is especially favorable, while others ripen every year. The latter are those which will be most likely to succeed in the north, and among the earliest of these are R. and among the earliest of these siteced in the north, and among the earliest of these are: Red—Moyer; white—Golden Drop, Winchell (Green Mountain); black—Brant, Canada, Manito, Peabody, Daisy, Jewel, water where it is more y well along At Ottawa

plant are: Black-Early Daisy, Manito, Moore's Early, Worden and Wilder; white—Winchell, Diamond; red—Moyer, Brighton, Delaware,

Lindley.

In order to grow grapes successfully in the north they should be planted where they will get the greatest heat in summer; the vines should be covered with soil in the winter, and the overring should be left on as long as possible in the plring so that they will escape the plring frosts.

spring frosts.

The Black Cap Raspherries do not succeed very well in the north, but two of the hardiest are Older and Hilborn.

A property of the hardiest are older and Hilborn.

A property of the hardiest and best red varieties at the King, Marlborn, Herbert and Carber King, Marlborn, Herbert and Cubhert the Lost, and the King the hardiest. The Cuthbert which is the standard in warmer.

parts of the country is rather tender for northern district

CURRANTS AND GOOSEBERRIES Some of the hardiest red varieties of currants are Pemona, Victoria, Red Dutch, Raby Castle, and of the black varieties, Saunders, Victoria, Collins' Prolific and Lee's Prolific

Collins' Prolific and Lee's Prolific.
The best varieties of gooseberries
are: Downing, Pearl, and Red Jacket. The two former, which are much
alike, are green varieties, and the
latter is a red one. Houghten,
though not so large, is hardler than
any of them.

STRAWBERRIES

The best varieties of strawberri for the most northerly districts are for the most northerly districts are: Bederwood, Senator Dunlap, Splen-did, Lovett and Crescent, the last one being perhaps the hardiest. The Haverland has also done well in the



"Stock Food," doing likewise.

to plumpness and vigor

Royal Purple will permanently cure the

Bots, Colic, Worms, Skin Diseases and Debility, and restore run - down Animals

MR. ANDREW WEGRICH, of Wainlett,

Ont., says: "This is to certify that I have tried your Royal Purple Stock

Specific to, the 16th I weighed her milk as the 16th I weighed her milk as pounds. I noticed a change after 5 or pounds.

miss. On the 20th, I carefully weighed the milk, and she gave 22 pounds. I am giving an order for 5 boxes, as I consider it the best I have ever used."

"Stock Food" will not do this. Because

than a mixture of the very things which you, yourself, grow on your own farm. It is not more food your Animals need.

ey must have something to help their bodies get all the nourishment from the food they are getting. So that the fatten, and stay fat, all the year '

It, does not contain Grain, nor farm

Purple does not merely temporarily bloat or inspire the Animal. It fattens and

strengthens it, permanently.

Nor does it contain "Dope, or any other injurious ingredient. Royal

products.

So that they will

It fattens and

No other Specific

so quickly as Royal

Purple. It makes 6-weeks-old Calves

as large as ordi-nary-fed Calves are

known adds

at 10 weeks

"Stock Food" is nothing more or

days, as there was an extra weight of

On the 29th, I carefully weighed

Specific for two weeks, on one cow. the 16th I weighed her milk a

Free to Stock and Poultry Raisers

We will send, absolutely free, for the asking, postpaid, one of our large thirty-two-page booklets on the common diseases of stock and poultry. Tells you how to feed all kinds of heavy and light horses, colts and mares milch cows, calves and fattening steers, also how to keep and feed poultry so that they will lay just as well in winter as in summer. No farmer should be without it.

At a cost of only two-thirds of a cent and heavy. And it builds up the health and restores the former plumpness and vigor of run-down stock, in little or no time. a day per Animal, Specific makes each Animal worth 25 per You never heard of any other Specific,

The very best time to use this Con-ditioner is NOW. It digests the hard food properly and prevents the animals get-ting indigestion or losing flesh.

50 per cent. Cheaper

One 50-cent Package of Royal Purple will last one Animal 70 days. This figures a little over two-thirds of a cent It will increase the milk-yield three to five pounds per cow a day inside of from two to three weeks. It makes the milk richer than ever before.

Most "Stock Foods" in 50-cent Packges last but 50 days, and are given three times a day.

But Royal Purple Specific is given only once a day, and lasts 50 per cent. longer, (A \$1.50 Pail, containing four times he amount of the 50-cent Package, lasts 280 days.)

So, you see, it is only necessary to give Royal Purple Specific once each day. Just think of making each Animal forth 25 per cent, over its cost! What will that mean to you, Mr. Stock Owner !

It makes the Hens lay Eggs in Winter as well as in the Summ

MRS. WM. BURNHAM, Sanford, Ont., says: "Dear Sirs,-This is to that I have used two boxes of Poultry Specific for my hens They laid so well while feeding it to them, I won-dered if you would mind sending me dered if you would mind sending me word how or where I could get some this winter. I bought it from your agent swinter. I had 32 hens, and some days I got two dozen eggs a day in February and March, while feeding them

Royal Purple Poultry Specific prevents Fowls losing flesh at moulting time, and permanently cures every poultry disease. It makes their plumage bright and keeps always in prime condition.

It makes your Poultry worth more than they could ever be without it.

Yet one 50-cent Package will last Hens 70 days. Or 25 Hens 280 days. Or a \$1.50 Pail will do This is four tim more material at only three times the

Centralia, Ont., Feb. 7, '10. The W. A. Jenkins Mfg. Co., London, Ont. Gentlemen,-We have been using Roya curple Poultry and Stock Specific for the last three weeks, and must say sults are remarkable. Am feeding it Stock Specific to two milking cows, are they have increased 30 per cent, in the milk. The Poultry results are ever marked than this. We have about hens, laying age. When we comm We have about 6 feeding, we were getting five and six egg flecting, we were getting live and six eggs at day, and ir 'the last five days the same flock of hens laid 150 eggs, almost as average of 31 each day, and those five days have been the coldest this winter. days have been the coidest this winter. You can see results plainly in two of three days after the use of "Royal Purple," and the poultry have the same hustle and appearance now as in the sum-With cows and poultry, an using exactly the same feed and ca before starting to an atockmen get ac when farmers and stockmen get ac quainted wines at the form of the start of the star before starting to feed "Royal Purple.

oyal Purple

They need something to prevent diser disease, and to keep them in the Royal Purple creates an appetite for best of health, all the time. and helps nature to digest and turn it into flesh and muscle. Not a Stock Food Royal Purple is not a "Stock Food," nor a "medicine." It is a Conditioner.

As a Hog fattener, Royal Purple has

Never Off Feed

Dan McEwen, the horseman, says:
"I have used Royal Purple Stock
Specific persistently in feeding "The Eel," Special persistency in the largest winner of any pacer on Grand Circuit in 1908 and 1909, and 'Henry Winters,' 2.10‡, brother of 'Allen Winters,' winner of \$36,000 in trotting stakes in 1908,

"These horses have never been off their "These norses have never been on their feed since I started using Royal Purple Specific. I will always have it in my stables. Your Cough Powder works like magic,"

For Poultry

Royal Purple Royal Purple Poultry Specific is our other Specific. It is for Poultry—not

Make This Test

Every ounce of Royal Purple Stock and Poultry Specific is guaranteed.

To prove that Royal Purple has equal, we want you to make this test : Feed Royal Purple to any one of your Animals for four weeks. And at the same time feed any other preparation to any other Animal in the same condition.

If Royal Purple does not prove to you, by actual results, that it is the best you ever used, we'll return your

And we'll ask no questions—make no excuses. You will be the judge — not us.

This is an honest test, isn't it? We to make it because we know that Royal Purple is the best Conditioner on the market.

If you are not satisfied, after testing it, you don't lose anything, do you?

W. A. Jenkins Mig. Co., London, Ont.:

Gentlemen,—Last Fall we had in our
stables a young mare belonging to Miss
Clouston, of Montreal. We could not feed her any bran on account of causing violent scouring, consequently causing he to become weak and thin. We com menced using your Royal Purple Stock Specific, and the results were wonderful After using it three weeks, we found we could feed the animal bran or any other feed without scouring her, and per actually took on in this time twenty-five pounds of flesh, we working her at the same time through the hunt. I can heartily recommend your Stock Spe TOM SMITH

Trainer for the Hon. Adam Beck.

le also manufacture Royal Purple Sweat Liniment 50c. Royal Purple Cough Cure 50c. Our Cough Cure will cure any ordinary

cough in four days, and will break up and cure distemper in ten to twelve days and cure distemper in ten to twelve days.

If your dealer cannot supply you with
our Royal Pupple Brands, we will supply
you upon receipt of \$1.50 a pail, prepaid, for either poultry or stock, or if
you want any Liniment, Gall Cure or
you want any Liniment, Gall Cure or
you want any English of the product of the country
of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the count

JENKINS MFG. COMPANY, LONDON, ONTARIO

the or The going to do the fa made or ness is steins above full. It w detaile ed thr island betwee lustrat for the the sal has be and withan \$ of Porbrother whose olds. For all satisfacting would it is a satisfacting would in the satisfaction of the satisfaction

D. W. J.
5 mos.,
Que.; In
Notre I
Kol of
Notre I
Grove,
Lambert
Homer
Gretcher
bert, Q
\$120, S. Sir Fran

Consig gerveid Ashby, Pontiac, Eustach de Kol, let, Que Consig Countess Gooderh gerveld Brunet, calf, 1 terville, Paul, 1 bonne, (Consign Beryl de Akkrum, Clearwat Consigr Sylvias J bie, Lach Consigr Irene, 8 Que.; Bu Prescott, Si75, Sid Male, Fa Col. Gim Holstelt so sold o two to T West.

Mr. Edi Newmark Holstein got arou would do He has s individual Mr. Denn ing his h

rather tender

SEBERRIES red varieties ona, Victoria, e, and of the ers, Victoria, ee's Prolific f gooseberries and Red Jac-

hich are much Houghton hardier than

strawberri. A nlap, Splen-the last one rdiest. The well in the

London, Ont. Specific for the say that re in feeding the ing cows, and cent, in the are even me ve about 60 lays the se s, almost as this winter. y in two o the same s in the sun poultry, a and e al Purple. it will have other ton et combine

28, 1910. lon, Ont.: ing to Miss could could no causing h urple Stock wonderful e found we any other twenty-five her at the Specific SMITH, am Beck.

25c. 50c. 50c. ordinary break up you with

pail, pre-ck, or if Cure or

by mail,

OIS

HOLSTEIN-FRIESIAN NEWS

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

moundanina SALE OF QUEBEC HOLSTEINS

SALE OF QUEBEC HOLSTEINS
On Feb. 21st, the First Annual Sale of
the Quebec Breeders Sale Association took
of two states of the Sale Association took
it was a great La stock yards, Montreal,
it was a great the stock yards, Montreal
in attendance and prices were good for
justee. The offerings were brought out
of their catters not are much to dispose
of their catters as to pread them through
the country.

of their cattle as to spread them through the country. The likelihood of the Reciprocity bill going aboutly into effect had something to do with the success of the sale as all the sale of the sale as all the sale as all made out when the sale was a sale ness last year with the sale was a sale seems are the cows that will be likely above all others to get this profit to the fall.

steins are the cows that will be needed alove all others to get this profit to the alove all others to get this profit to the detailed list that the cattle were distributed through the Eastern Townships, the detailed list that the cattle were distributed through the Eastern Townships, the between Montreal and Toronto, thus illustrating how much Montreal is a centre from the contreating from the Montreal and the list of the sale alove and Montreal and the sale alove the sale alove the Montreal district and will go to Toronto for a little less that the sale alove the sale

E. Came, Camaa Farm, S. Secondary, Licat. Co. F. J. Hiley, Homewood Farm, Leachine Rapids; Felix P. Ashby, Marievilla.

Lachine Rapids; Felix P. Ashby, Marievilla.

Lachine Rapids; Felix P. Ashby, Marievilla.

Lachine Rapids; Felix P. Ashby, Marievilla.

Were as follows; tennales. Prescott de Kol; Midda, 1 yr., 104 yrs. old, 848, to J. Rankin, Huntingdon, disc., Prescott de Kol's Midda, 1 yr., 105 yrs., 105, 105 yrs., 105 yrs.,

WILLOWDALE HOLSTEINS

MILLOWDALE HOLSTEINS
Mr. Edgar Dennis, of Willowdale Farm,
Newmarket, Ont., established his herd of
got around him a class of cattle that
would do credit to a much older breeder,
the has a herd of rare uniformity, each
will do credit to a much older breeder,
the has a berd of rare uniformity,
mr. Dennis was fortunate when establishing his herd in securing such a cow as
tuned Artis Feer, 300, with a record of
1507 lbs. milk and 5529 hs. fat in 19

months. This grand cow has five daughters that in time will equal if not survey that in time will equal if not survey that in time will equal if not survey that in the company that it is a survey to the company to th

bred Holsteins.

He also pays some attention to Clydese He also pays some attention to Clydesedale horses and Otford sheep, he is a thorouga going farmer and believes that every dairyman should raise the bulk of his feed. A farmer could not spend a more profitable day than to pay Willow-dale Farm a visit. Mr. Dennis is offering dale Farm a visit. Mr. Dennis is offering and a part of inno Olyde yearling fillies and a pone young calves of both sexes.

A STRING OF PRODUCERS

A STRING OF PRODUCERS
In a recent letter to Farm and Dairy,
Edmund Latdlaw & Bons, Aviner West,
Ont, make mention construction of the control of the control

and 7.18 lbs. better from 190.012 lbs. milk in seven days and 7.18 lbs. better from 190.012 lbs. milk in 30 days.

"Belle Dewdrop 5th, calved at two years five months old and gave 14,690 lbs. milk in one year, was dry less than a month and again this year at three years old and again the year of the result of the seven days old made 186 Calamity in seven days; fielbon de Kol 2nd at three years old gave 14,395 lbs. in one year; Houwtje Calamity Posch at four years old made 202 lbs butter in seven days; fielbon de Kol 2nd at three years old gave 14,395 lbs. in one year; Houwtje Calamity Posch at four years old made 202 lbs butter in seven days; We have others still more promising to best had better better the post of the days when the post of the post of the constitution of the constitution of the post of the constitution of the constit

way so far as a yearly nutter record use concerned.

"Sales from this herd have been very mindactory this fall and winter. A very mindactory with the "start right" idea. Her young bull calf went to W. A. Bryant of Cairngorn and ahould be heard from in the property of th "Sales from this herd have been very

AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Canada. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire could be considered to the Canadian are invited to send items of the Canadian are invited to the column.

A recent letter from Woodissee Bros., of Rothsay, Ont., to Farm and Dairy, says: "We have still some young bulls from R.O.P. cows to sell. We are offering no heifers or cows at present, Our cow rimrose of Tanglewyld passed the record with 16.9550 hs. milk, testing nearly four per cent. She is due to freshen the 17th of February.

AYSHIRE BREEDERS' VISIT TO

AYSHIRE BREEDERS' VISIT TO

AYRHIRE BREEDERS' VISIT TO

Follow MACDONALD COLLEGE and banquet of the Canadian Ayrshire Breeders'
Association on Feb. 10th. about 50 Ayrvisited St. Annee de Believe, impected
the College buildings, also the stables,
the college buildings, also the stables,
there is a stable of the college had been also been also

slock is its grown as splendid promise.

After a walk through the stables the party divided, one crowd lunching at the College. Mr. John McKee, the new

president, fathered this party, and after president, fathered the party, and after present the president p

spection, as was the large herd of Vorkshires, barking, we journeed to see the many fine Ayrshires at "Lo Bose the many fine Ayrshires at "Lo Bose the many fine Ayrshires at "Lo Bose owned by the Hon. L. I would be the control of t

Maple Syrup Makers be Ready for the First Runs of Sap



"OHAMPION" EVAPORATOR

One of our greatest difficulties we have is to make our many customers see the necessity of sending us their order early in the season for their Sugar Camp equipment. The majority of them wai until the month of March, or just before sap runs, then expect their goods immediately. Don't put off ordering. Write us to-day for our free booklet giving you full particulars in regard to Maple Syrup and Sugar making.

THE GRIMM MAN'F'G CO., LIMITED

58 Wellington St., MONTREAL, QUE.

Hamilton Incubator Hatches Big, Healthy Chicks

You never find the Hamilton guilty of hatching deformed chicks, or allowing chicks to die in the shell. That is because the heating and ventilating systems introduce the correct amount of life-giving oxygen and moisture into the egg-chamber—because the heat-regulating system is accurate to a fraction



of a degree—because the directions are so simple directions are so simple and correct. The Hamilton Incubator hatches every fertile egg. The chicks are so plump, healthy and lively they make the old hen jealous of the Hamilton. You can make a success of hatching chicks cess of hatching chicks with the Hamilton Incuwith the Hamilton Incubator, and just as big a success of raising them with the Hamilton Brooder. Send for our free booklet and get complete information about the always successful Hamilton Incubators and Brooders.

The Hamilton Incubator Co., Ltd., HAMILTON, ONTARIO,



The most nervous animal on the farm is the well bred Milch Cow and to get the best out of her she must be comfortable, contented and clean. Look how happy the cows in the above cut are, in Louden's Stalls and Stanchions. The Louden Machinery Co., Guelph, makes everything for a barn or stable. Write for catalogue, it is free

Defy lightning as well as storms

You can defy lightning, so far as it affects your buildings, when you roof with Preston Shingles. For with them you get a GUARANTEE against harm to any building they cover from the thunderbolt. And they protect you against all kinds of weather as well.

ZET these better-gal-vanized (therefore longer-lived) metal shingles cost you not a cent more per hundred square feet than you must pay for the ordinary kind. And even that ordinary kind is worth far more

ISHINGLES

than wood shingles—or slate-the (so-called) patent roofings.

You should be well-advised about roofings

Allow us to send you a book that tells the mere truth about every sort of roofing material there is. It is free You would gladly pay for it if you know what it would save you-in money, bother and time. But it's yours for the asking.



Please ask for that book. Do it now. It tells, among other things, why the all-square lock means bigger roof value. Write and

Ask Questions!

apolpho Manager

Metal Shingle and Siding Co., Limited

Dover St. Factory, Preston, Ont., and Montreal.

Branch Office and Factory, Montreal, Que.

PRELIGIBURG. Feb. 13.—February has been a full distribute. Feb. 14.—February has been a full distribute. February has been heavy snow flowers and the property of the full distribute. February has been plowed. A neighboring town has been plowed. A neighboring town has been plowed. A neighboring town has been plowed as with specially constructed rollers for with ready of the full distribute. February has been plowed to be the full distribute. The roller makes a good as plowed track. The roller makes a good and it would be interesting to know which is cheaper, poosing or rolling—CA.W.

ONTARIO

LEEDS CO., ONT. LEEDS CO., ONT.
GANANOQUE. Feb. 15.—We are having a very cold winter in this section. Feed is cheap, nay selling at from \$6 to \$8 a and shipped and the selling and shipped going for over \$70 and are yet dear, grades going for over \$70 and are yet dear, grades butter, 25c; and eggs, 36: packed eggs, 50: CH.Cl.

butter, 280; and eggs, 380; packed eggs, 58c—C.H.G.,
FRANKVILLE, Feb. 22—We are having of our old fashioned Canadian wint of the control of t

kinds of live stock seit weit, particulars, kinds of live stock seit weit, particulars, milk cows and sheep.—W. H. M.

PETERBORG CO. ONT.

MONAGIAN, Feb. 22.—A good many farmers in this township are thoroughly mere the publicity the township are the publicity the township are to the control of the control

BRANT CO., ONT FALKLAND, Feb. 14.—Our Farmers' In-titute held two very successful meetings

OUR FARMERS' CLUB

Correspondence Invited

OUEBEC

MISSISOUOI CO., OUE.

PRELIGHBBURG, Feb. 13.—February has

companies.—L.T.

WATERIOO CO., ONT.

WATERIOO CO., ONT.

WATERIOO CO., ONT.

WATERIOO CO., ONT.

Watering fine winter weather and good winter weather and good control of the summer of

GOLENIE, Feb. 17.—The weather has been character and the search of the s

MANITOBA

MAROUFTE DIST., MAN.

KELLOE, Peb. "We have had two weeks of lovely was the weeks of two weeks of lovely was the second of the meanest weather Manthouse of the meanest weather Manthouse he was to get the second of the meanest was the second of the meanest know the second of the meanest know to see the second of the second

BRITISH COLUMBIA

BRITISH COLUMBIA
NEW WESTMINSTER DIST., B.C.
CHILLIWACK, B.C., Feb. 1, 1911.—The
weather concentration is a beautiful frequent Chinock with so be mild with frequent Chinock with so be mild with frequent Chinock with so beautiful for some of snow on the level arm size is defitted wery deep. The
suffering in this weather as their sour suffering in this weather as their sour and are shut off and they take refuge are shut off and they take refuge and are shut off and they take refuge as have had was seven
degrees below zero.

GOSSIP

One of the greatest problems confronting the farmer to-day is how to get his farm titled, and to realize that the sooner it is the sooner to the farmer to the sooner to the soo

Illuie neig two very successful meetings; BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines, nor for less than aix months, or 25 insertions during twelve months.

SUNNYSIDE HOLSTEINS. — Young stock, all ages. —J. M. Moutle & Son, Stanstead, ulars in regard to stock and prices address R. W. Walker, Utica, Ont.

CLYDE HORSES, SHORTHORN CAITLE— Young stock for sale at all times.—8. F Redmond. Peterboro, Ont.

CLYDESDALE HORSES, SHORTHORN CAT-TLE-Large selection of best stock. Prices reasonable.—Smith & Richardson, breed-ers and importers. Columbus. Ont. EDGEMONT HOLSTEINS AND TAM-worths-Young stock for sale. Quality good, prices reasonable.—George H. Mc-Kenrie, Thornhill, Ont.

ORMSBY GRANGE STOCK PARM, ORMS-TOWN, P. QUEBEC, — Importation and breeding of high class Clydesdales a spec-laity. Special importations will be made. —Duncan McEnchran.

YORKSHIRE AND TAMWORTH HOGS.— Plymouth Rock and Orpington fowl.—A Dynes. 4M Parkdale Ave., Ottawa. HAMPSHIRE PIGS.— Canada's champton herd. Boar herd headers. Sows them months and under.—Hastings Bros., Oross-bill, Ont.

CLYDESDALES—Many by that great sire Acme, (Imp.) Write us. R. M. Holtby, Manchester P.O., and G.T.R. Station. Myrtle O.P.R. Long Distance Phone

TAMWORTH SWINE—Choice stock for sale at all times at reasonable prices. Correspondence invited, Wm. Keith & Son, Listowel, Ons.

And 20000 Tor

ever talkii be ta cussii the l ment the affect the affe

The in wh steaddy middle to 97% low wi The u u tributs the whole to the The I heavy tralia ket No 2, 95% Ontaricents in the strengt quoted locatio locatio

The high I market and or last w market tern N(Ontario side; 3 erican 65e to 54e to 50 on that 39e; buckwh treal I week a Quotati Western 372e; le

Suppli the Tor Quotatic a ton; tario br are ver-is limit tations bran is Ontario are quo-lows: Co-meal, 83 markets oatmeal

Trade Trade ruling Wholesa \$1.10 a charged market to a furthe the weel 90c to 92 for bean

During an excel of butter and pric quotation to 29c, so 22c to 23 ferior gr market c 25c to 21 13c and

allman of Bress and Miss Gray much valuable to for wheat is 33c; barley and is a good decreased at the butchers are much packing the packing the packing the second control of the packing the second control of the packing t

ch 2, 1911.

ONT.

1911.—We are ler and good being hunted of horses have rices. No fat we are still Quite a nundon sales have to clean the

IT.

weather has
heavy storm
after a thaw,
after a thaw,
storm. Some
poor sleighre are many
g high with
with butter
uality. Eggs
lenty of feed
ey get what
ey get what
the straw
gs are over.

MAN,
we had two
re five weeks
initoba ever
initoba ever
so claim they
and stormy
a very bad
Oat prices
y much and
d their onts
igh the
esced. Cattle
eac. Salte
ay deliver,
armers will
and spring
getting prere is a lot
traffic was
r about a MAN

IA r., B.C. 1911.—The with fre-1911.—The with fresix inches any places asants are eir sources take retarns. The was seven

his farm oner it is table will fact that a great when they as a ten-tant item cant item
Cement
ce of the
roven by
ar super.
me. The
Co., of
e on the
ells at a
anyone
them.

**** HOGS.-

ampion three at sire Holthy, tation,

with the agreement as are the Canadian farmers.
Business corecans whose financial year closes at this the report a good showing and are op distic in their outlook for the coming year. Call money rules at 5% per cent.

Trading on the horse exchange is very dull. Trading on the horse exchange is very dull. The more with how excels are not exchange in the second of the secon

with the agreement as are the Canadian, farmers, armore, account as whose immunity year closes at this time report a contain year that year they are any contained to the proper of the year that year any they are the are they are the are th

"Rural Verses, Urban, Their Conflict and its Cause," is the tille day a Conflict and its Cause," is the tille day a Conflict and its Cause, "is the tille day of the conflict and its Cause," is the till day of the recently. This book is a study of the recently. This book is a study of the recently. This book is a study of the relations of the rational and a refull and the properties of the recent and the rece

PRINCE EDWARD HAS ORGANIZED PRINCE EDWARD HAS ORGANIZED
A sories of meetings was held last week
in Prince Edward County, Ont., in the
interests of the farmer's movement. Five
subordinate granges were organized and
subordinate granges were organized and
county paragne. The farmers of this
county paragnet of advance their interests
of the county paragnet of advance their interests.

MARKET REVIEW AND FORECAST

Toronto, Monday, Pebruary 27th—Wherever one sees as bunch of business mentalking together now adays, it can almost a control of the state of the s

Stallions for Sale

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

Come to the Home of the Prize Winners JOHN HAWTHORNE

SIMCOF ONTAR O

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

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

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

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

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

phone line.

With this No. 2 Bulletin we will, if requested, send you our handsome new book, "Canada and the Telephone."

For this book a leading artist has drawn thirty-two picture linestrating the necessity and benefits of the telestown is metal districts. phone in rural districts.

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

We make prompt shipments of all kinds of telephone equipment,

Canadian Independent Telephone COMPANY, LIMITED

24 Duncan Street, Toronto, Ont.



HOLSTEINS HOLSTEINS



If you are wanting HOL STRINS, any age, either sex write:
GORDON H. MANHARD,
Manhard, Ont

FOR SALE Holsteins of the choicest breeding, and individual merit. All ages, male and famale.—CLARENCE R. BOLLERT, Zora Lodge Farm, Tavistock, Ont.

HOLSTEINS

FOR SALE - Bull calf born Mar. Mth. 1910, dam first beffer of her sag in Canada to make 20 he, butter in 7 days. Bull - born. Apr. 17, dam sister to dam of No. 1, dam first her to dam of No. 1, daw 1, orded and damphier of dam of No. 1 calf y orded and first her to dam of No. 1 calf y orded and first her to dam of No. 1 calf y orded first her to dam of No. 1 calf y orded first her to damping the same first her to damp

mediate sale. DAVID CAUGHELL, Yarmouth Centre, Ont.

WOODCREST HOLSTEINS



A few choice Bull Calves A few choice Bull Calves for sale; six to ten months old. Sons of Homestead Girl De Kol Sarcastic Lad, and grandsons of Pietje Recently tuberculin tested by J. Inspector. Write for pedigrees and prices.

WOODCREST FARM

RIFTON; ULSTER CO., - - NEW YORK

LYNDALE HOLSTEINS BROWN BROS.

LYN, - ONT.

LYNDEN HOLSTEINS

FOR SALE — Holstein Buils, Korndyke cake, No. 5699, four years old. He has it ows in his pedigree that average over 23 bs. butter 7 days, A.R.O. Also one 14 onths, dam 25.17 bs. Also built calves com large record dams. Write for par-SAMUEL LEMON. LYNDEN, ONT

LAKEVIEW HOLSTEINS

Bell caires sired by Count Engervale Bell caires sired by Count Engervale Bell caires are better by the Bell caires are some six of the State Bell caires are some six of the State Bell caires are some six of the State Bell caires are from A. H. O cours if the State Bell caires are from A. H. O cours if the rootes of B bis. Telephone. E. F. OSLER, Bronte, Ont.

FAIRVIEW FARMS HERD

Sons of P-mas FOR SALE—
sons o

or the third strenge for the two local baseries of Sir Johanna Colantha Gladd, a
sons of Sir Johanna Colantha Gladd, a
son of the Johanna Colantha Gladd, a
son of the Johanna Colantha Gladd, a
son of the Johanna Lad, whose dam
a son of Colantha Johanna Lad, whose
a son of Colantha Johanna Lad, whose
a son of Colantha Johanna Lad, whose
dam average 336 lbs. each
dam average 346 lbs. ea

HOLSTEIN CATTLE THE MOST PROFITABLE DAIRY SREED HUSTRIED DESCRIPTIVE BOOKlets Froe HOLSTEIN-FRIESIAN ASE'N OF AMERICA FLHOUGHTON, SECY, SOX 145, BRATTLESORD, YT 8-41

HOLSTEINS

HOLSTEINS—Cows and heifers for sale.
Also young bull from Record of Performance cow.—W. J. Cowie, Locust
HIII, Onk.

HOLSTEINS

For Quick Sale Bight grade Holstein cows and three one-year-old helfers in calf. Seven of the cows have been in the Cow Testing Associated and averaged 1,012 lbs. milk. 32 per cent and averaged 1,012 lbs. milk. 32 per company for a milk of the company of the co

W. R. SHIELDS, Mount Pleasant, Ont. Bell Telephone.

EVERGREEN FARM HOLSTEIN HERD



Has at its head Veletra Tri-umph (imp.) 377, whose dam gave in 1 day 10½, lbs milk, hand his sire's dam gave 104 lbs. in 1 day, wonderful surenteem We wonderful surenteem We you want of either sex. All stock guar-actised as represented. GEO. w. ANDERSON, ROSSMORE, ONT.,

MERTON LODGE STOCK FARM MERTON LODGE STOCK FARM
Offers it two year old helisms hose sires
are a son of Hengerweld Die, on, and De
Kol the End's Mutual Paul,
daughten with a it and it ib. records, and
a son of De Kol the End, the founder of
a son of De Kol the End, the founder of
the End Butter Boy the year of De Kol
the End Butter Boy the year of De Kol
the End Butter Boy the year
Putnam. Seven miles Irom Ingersoll
w. W. GEORGE, - CRAMPTON, ONT.

ELMDALE DAIRY HOLSTEINS POR SALE—One yearling bull, and bull calves, sired by "Paladin Ormsby whose 3 nearest dams average over 3 lbs. butter in 7 days, and from dams with good records, one 10,500 lbs. in 6 months, and 7 day A. B. O, record 20.69 butter 60 days after calving. butter 60 days after calving. FRED CARR, Boz 115, ST. THOMAS, ONT.

Holsteins, Clydesdales and Oxford-down Sheep

Holsteins, Clydesdales and Oxford-down Sheep. Present offering calves of both sex. Two choice fillies rising a year old. Come and see or address EDGAR DENNIS. • NEWMARKET, ONT. WILLOWDALE FARM

Holsteins For Sale Two highly bred Holstein bulls fit for service, sired by the great Mercena's Sil Posch 2nd. Prices moderate for ovid-

W. J. BALD, Sebringville, Ont.

Brookland Holsteins

For Sale, Holstein Bulls, il months old, well grown and thrity, Sir Paul De Kol Abberkirk, whose dam is in the advance Registry. Dams of these bulls are vance Registry. Dams of Performance. Write Fourier and full particulars or better come and see them. Prices reasonable.

J. W. McCORMICK . Box 30, MOREWOOD, Ontario Dundas Co.

RIVERVIEW HERD Offers Bull Calf born February 14th, 1916 Sire Sir Aaggie Beets Segfs. Six dame in pedigree average 25.60 lbs. in seven days. P. J. SALLEY

Lachine Rapids, Oue

HOLSTEINS

I am offering my Stock Bull, Son of Prince Posch Pietertje C., rising three years. Also a son of Sir Hengerveld Tehee, one year old, from R. of M. cow. Telephone connection.

C. R. JAMES, Thornhill, Ont.

WOODLAND HOLSTEINS Moles bull calves by a son of Nether-land the property of the property of the pro-perty of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation and property of the property of the pro-perty of the property of the property of the pro-tation and property of the property of the pro-tation of the property of the property of the pro-perty of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-perty of the property of the property of the pro-tation of the property of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the property of the pro-tation of the property of the pro-tation of the property of the protection of the pro-tation of the protection of the protection of the pro-tation of the protection of the protection of the pro-tation of the protection of the protection of the protection of the protection of the pro-tation of the protection o

M. VAN PATTER & SONS, Aylmer, Ont.

PLEASANT VIEW HOLSTEINS

For sale four bull calves, two of them it for service this spring from height for service this spring from height for service this spring from height services. One of these bulls is from Prince cown. One of these bulls is from Prince cown. One of these bulls is from Prince cown. One of the services and 1990 in dairy test. The other one is from Sir lake of Rivers and Prince Charles of the services.

F. LEESON & SON, AVLER, ONT.

You and the Buyers

You mayfe dthat surplus stock You may'se drhat surplus stock of yours and wait a long time for a buyer if you depend wholly upon a chance buyer coming along, or if you mean to sell it your neighbors locally. The time to sell your stock is when someone wants to buy. That time is now. There are thousands of dairy farmers from one end of Canada to the other read-end of Canada to the other read-end of Canada to the other read-end of Canada to the other readsands of dairy farmers from one end of Canada to the other reading the live stock advertisements in Farm and Dairy exery week. Many of them have need of the very stock you have for sale. You ought to tell them about your stock. You can tell them most effectively and at a very low cost by an advertisement placed in these columns. Farm and Dairy has ever sought to further the interests of the smaller breeders and the

of the smaller breeders and the beginners with pure bred stock. We realize that it is a hardship to ask you to pay a higher rate than the big fellow. like some other papers do. That is why we give you the advantage of our low flat rate of 98 CENTS AN INCH per insertion.

Take advantage of this low rate to-day. Send along your advertisement, which will tell the thousands of buyers who read Farm and Dairy of what you have for sale. Your advertise-ment inserted in these columns will place you in a position to reach the buyers you want and to make the sales you seek at satisfactory profits. Send in your ad. to-day and let it bring you buyers.



Metal Stock Ear Labels With name and numbers for cattle, sheep or hogs. Sample and circular mailed free. Write for them. F. G. JAMES, Bowmanville, Ont.

AYRSHIRES

DON'T WRITE

nless you want A1 Imported and High esting registered Holstein cows or calves om same, sired by Imp. Sir Hourotje edge Butter Boy with official backing 112 lbs. per day. Prices moderate. I. N. HOWE, GLENWOOD STOCK FARM CRAMPTON, ONT.

HOLSTEINS FOR SALE

15 two year old heifers. A select bunch lajority of them have A. R. O. records few 9 mos. old bulls with two and thres f their nearest dams tested

R. CONNELL, Roebuck, Ont.

Homestead Holstein -Herd-

Headed by the great young sire Dutch and Colanina Sir abbakers. Dam and hire's dam serage 31 are butter in 7 ays. He is the result of white in 3 and the colanina De Roi, 224, (the best member of abains De Roi, 224, (the best member of lanthauma, 821 ble. butter 17 days. Indiana, 821 ble. butter 17 days. Indiana, 821 ble. butter in 7 days. Indiana was presented by the second of the second of

EDMUND LAIDLAW & SONS Box 254 Aylmer West, Ont.

RIVERSIDE HERD HOLSTEINS FOR SALE

CRUMB'S IMPROVED



Henry H. Albertson, Burindon, N. J., writes "My men Stanfachions add greatly as a few for the control of inexpensive yet and tary cox stable to

Send for specifications of inexpensive yet antitary cow stable to
Canadian orders R. Bd., Forest ville.Comm.U.S. A.
Canadian orders in the drow Canadian factory.
All correspondence should be addressed to the home office.
State in inquiry if you prein booklet in French or English.

AYRSHIRES

CHOICE AYRSHIRES

OHOICE AYRSHIRES
FOR SALE-One buil 8 months. Beveral
choice buil calve 10 grand good cows
and helfers, one casts and udders, big
producers. Record casts
William of the companies of the companies of the companies
or come had companies of the co

SELECT AYRSHIRE BULLS



A pair of chôice caives dropped in March and Ap-ril 1910. both from Re-cord of Performance dams testing high in but-ter fat. W. W. BALLANTYNE

"Stratfor", Ont.

15

cell

supe

out

of C

neitl

posi

such

dest

plan

smoo

or n

scoop

rat-p

the e

fresh

first

clean

better

add r

Conc event of wo

A

E

BURNSIDE AYRSHIRES AM LEAVING FOR SCOTLAND after lat March to make a large importa-tion. Any orders entrusted will be care-fully attended to. Agents there have corrected and of heifers and cows bred or the control of the control of the control HOWICK, QUENCHER IN SERVING AND ACCOUNTS.

CHOICE AYRSHIRES

CHOICE AYNISMIRES
Write for prices, etc., on Imported Ayrshires. We are now buying to see that
or spring elivery. Over 30 bought
result of our October visit. First choice
of our October visit. First choice
of Bulls and Enferts. HighHome Offering—A few very choice Buil
Oalves. Two fit for service.
ROBT. HUNTER & SONS, Maxville, Ont.

'La Bois de la Roches'' Stock Farm Here are kept the choloset strains of AVRSHIRES, imported and home bred. YORKSHIRES of the best bacon types. WHITE ORPINGTON, WHITE WYAK-DOTTES and BARRED ROCK Poultry. DOTTES and BARREY

HON. L. J. FORGET,

Proprietor

Ste. Anna da Bellevus, Que.

COMMERCIAL AYRSHIRES

Pive yearling bulls fit to head any oom-pany. Two 1911 Bull Calves at your own price for oulck sale, as I am short of milk. Everything descended from R.O.P. Cows. Ratifaction guaranteed IAMES REGG. R. B. W. I. St. Thomas. Out.

THE SPRINGBANK HERD OF AYRSHIRES Contain more World's Champion milk and butter producers than any other herd in America. Four choice bull calves for sale out of large teated heavy producing dams. A. S.TURNER & SON

Byckman's Corners, Ont.

MISCELLANEOUS Norman Montgomery

EXPERT PURE BRED LIVE STOCK AUCTIONEER Long Distance Phone. WOOLER, ONT.

TAMWORTH AND BERKSHIRE SWINE Boars and sows for sale. J. W. Tod Corinth, Ont., Maple Leaf Stock Farm.

HOLSTEINS AND TAMWORTHS POR SALE. Seven bulls from 5 months to 15 months; 65 pigs, either sex, all ages; write for prices. Phone in residence, con-nection via Cobourg. BERTRAM HOSKIN, The Gully, Ont.

HOLSTEINS FOR SALE

Night head to select from, 25 are two and three-year-old hedres. Herd is headed by Prince De Kol Fore. Herd is headed by Prince De Kol Fore. Son of Lady Rear, dams by Colvell's only of the prince of the pri

everything want to

Tear off,

and mail Ceupen.

about concrete.

FREE!

You may

of "What

the Farmer Can

Do With Concrete."

Name

Address

ORTURE specifications isive yet sani-able to He.Conn., U.S.A., an factory, to the home office, reach or English.

ES ths. Several good cows udders, big ormance a OCH ONT.

BULLS

LANTYNE 218 ND after importa
il be care
here have
cows bred
R. NESS

Scotland aght as a ret choice rs. Highoice Bull

Ille, Ont. k Farm trains of ne bred. n types. WYAN-ultry. BEAU, lanager ue, Que.

ES ny com-our own thort of R.O.P. ns. Ont

SHIRES ilk and herd in for sale dams. ON Ont.

US ery OCK ONT.

the to ages; Ont.

SALE

This Concrete Root Cellar Costs Less Than Wood and is Much More Durable

Concrete is especially useful in the construction of root cellar floors and walls.

Experience proves that for the farmer. Concrete is superior to wood in every point of comparison.

Concrete permits of a sufficient degree of coolness without risk of freezing. There is no question as to the durability of Concrete; it lasts not for years, but for ages, and requires neither painting nor repairing.

Aside from this, a Concrete-constructed root cellar will positively prevent the inroads of rats and mice, which prove such a direct source of expense to the farmer by their great destructiveness.

Anyone who has ever scooped vegetables from an old plank floor will appreciate the fact that Concrete offers a smooth, continuous surface with no projecting plank ends or nails to damage the scoop or ruffle the temper of the scooper.

A root cellar built of Concrete is absolutely fireproof, rat-proof and wear-proof. It can be used for years and at the end of that time will be found to keep vegetables in as fresh, sweet and wholesome a condition as the day it was first built.

With Concrete, first cost is last cost. It is easily kept clean and sanitary and is pleasing to look at.

A Concrete root house will not only give you decidedly better service at less cost than any other material, but it will add much to the value and appearance of your farm.

Everything else being equal, the farmer who builds of Concrete can obtain a much better price for his farm in the event of a sale than a farmer whose buildings are constructed of wood.

We would be glad to send you a copy of our new illustrated booklet.

"What The Farmer Can Do With Concrete."

It tells in plain, simple fashion how you can use Concrete in the construction of almost every farm utility. Everything-from the preparation of the ground, and the building of the forms, to the mixing of the Concrete and the completed structure-is told in language so understandable that you will find it easy to follow the directions and in many cases do much of the work yourself.

The book contains actual photographs, plans, and diagrams of Concrete work, besides information that, from the standpoint of farm economy, makes its reading intensely interesting and profitable. It tells you how to use Concrete in the construction of the following :-

Hitching Posts Chimney Caps Hog House Culverta Houses Milk House Dipping Tanks Poultry Houses Foundations Root Cellars Fence Porze Silos Feeding Floors Sheds Guttera Shelter Walls

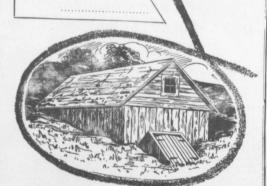
Stairs Stalle Steps Troughs Walks Wall Copings Well Curbs Wind Walle

REMEMBER, this book is yours-your signature and address on the coupon or post card will bring it promptly. Send to-day.

Stables

CANADA CEMENT CO., Limited

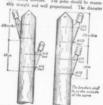
> 71-80 National Bank Building MONTREAL



HOW TO BUILD RURAL TELEPHONE LINES

ings, as branch weres can be run from the main line to the buildings and thus save wire and simplify the con-struction. Reference to Fig. 4, in which c, e, etc., represent the buildings to be connected, mn the main line and a and f the branch wires, will make this point class.

POLES Poles twenty-two or twenty-five feet long of any good stock, cut when green, should be used. Cedar and chestnut are particularly desirable on account of their lasting qualities. The poles should be reason-



THE NORTHERN ELECTRIC & MFC CO. LTD.

of the top of the pole should be about 5 or 6 inches. In order to prolong the life of the poles and add to the attractiveness, all the bask should be removed, knots trimmed close and the but cut off square. The top of the poles should be roofed as shown in Fig. 5. POLE FITTINGS.

Where only one or two line were are to be mounted on the poles, oak brackets fitted with glass insulators are dataseed to the pole as indicated in Fig. 5 for straight lines, or as shown in Fig. 6 at curves. The brackets should be attached to the poles before the



in Fig. 32.

They should be about 18 inches apart. The upper bracket should be 8 inches from the top of the pol--41-

Send This VOLUME

ONLY ON REQUEST

THIS book consists of 100 solid pages of carefully compiled information on the building of rural telephone lines. It is well printed, profusely illustrated and handsomely bound in stiff, cloth-covered binding. Apart entirely from its actual cost of printing and binding, the preparation of the technical matter in it has run into a great deal of money. That is why we ask for the coupon—we want to be sure that you are interested in the subject, before we go to the expense of sending you this book dealing with

The Complete Story of "How to Build Rural Telephone Lines"—Use the Coupon

The two pages shown above give you an idea of how thoroughly this book covers every detail. Every other page in the book is just as full of information as the pages shown. Among the matters dealt with in this volume, is the organization of mutual-companies, of stock-compan-The Northern ies, line construction, equip-

Electric and ment, costs of construction, Manufacturing Co. companies already organized, their history and Please send me FREE, one copy of your 100 page, bound and nustrated book on "How to Build Rural Telephone Lines". what they have ac-

Montreal

Toronto Calgary Winnipeg Vancouver

complished, government regulations on the subject-in fact, every detail on the subject—in fact, every detail you could possibly think of or need to know. If there is no telephone system in your community to-day, it is only a matter of time until there will be one. Farmers are organizing community-owned systems all over the country. Some day one will be organized in your locality. You owe it to yourself to know the facts, for knowing the facts may mean money to you. Sand for facts may mean money to you. Send for the book—use the coupon NOW,

AND MANUFACTURING CO. LIMITED cturer and supplier of all apparatus and equipment used in the const ance of Telephone, Fire Alarm and Electric Railway Plants. Address on

160

Post Office