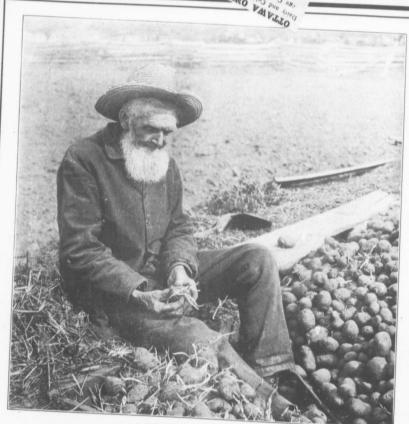
Eighth Annual Orchard and Garden Number

RM AND DAI Peterboro, Ont., N 01 300



A SPRINGTIME CHORE FOR GRANDPA.

-Photo in Huron Co., Ont.

- EFFICIENCY—The "Simplex" is the result of thirty years' ex-perience with Cream Separators and ten years' experience in manufacturing "Simplex Link Biade Separators." The experi-ence of these years is embodied in the new "Simplex" for you.
- SIMPLICITY—The "Simplex" is the simplest in construction of all separators. It has fewest parts of any make and can be operated by a child.
- SMOOTH RUNNING—The "Simplex" bowl will always run smooth and true even if out of mechanical balance.
- 4. NOT AFFECTED BY WEAR-As the "Simplex" wears instead f becoming noisy and running harder, as in other makes, it will
- LIVES LONGER—The greatest wear and tear of Separators is caused by the uneven running of the bowl. The "Simplex" Self Balancing Bowl is never out of balance, consequently there is the minimum amount of wear and tear, and the life of the Sep-
- 6. A MONEY-SAVER—The "Simplex" is so light running and turns so easily that it does the work in half the time required by other makes, and cuts the labor of skimming more than in two. This means a big saving in time and money.

The other ninety-three reasons you will soon find on your first tail of the "Simplex." Write us for literature on the "Simplex" and the testimony of satisfied users.

D. Derbyshire Co., Limited

Head Office and Works: BROCKVILLE, ONT.

Branches: Peterborough, Ont., Montreal and Quebec, P.Q.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

When You Write -- Mention Farm and Dairy



Remember the day you sprinkled the potatoes?



HEARD SPRAMOTOR CO., 2743 King St., London, Canada

"Life Is Real, Life Is Earnest

H. Percy Blanchard, Hants Co., Ont.

So sang the poet Longfellow. It value to them than land. Such a may be that his thought went method would be folly with us because higher than a matter of raising of the opposite factors. It seems so, or is it that we could does not live by bread alone, says a set much more out of our woming instill greater teacher. The ambition to dustry with little more effort, of we gather around us much may be open to question; but who can question the ambitions to gather the best? At the great "Harvest Home," when each thing that we have added to our naked selves has been threshed and winnowed and separated, each in its several bin and mow, and the sum total of values taken, what will be the net product? There might be opportunity product? There might be opportunity here for the preacher or the moralist to take up and develop this theme; but I will purposely pass that aspect

There is, too, the question of what harvest our "syare minutes" have pro-duced. These minutes may have been wasted or worse; or they may have been scattered among our friends and neighbors for their lasting benefit and help. This aspect too is passed by . . .

The real, serious theme for us today is the serious grappling with the ordinary problems which confront us as farmers. I realize far too well by experience how easy it is to drift along. It is true that in some cases speed is loss. The freight train across the Continent dragging along at 15 miles an hour, or the ocean tramp at seven miles may pay; when double the speed would consume all profit in the disproportionately extra fuel. But such apparent sluggishness is not the result of inertia at neadquarters; it is the evidence of skilled calculation. For a dairy buying up is quicker; but breeding up is better. Not slow speed, nor yet high speed, but right speed counts, Adapt system to circumstance. Some Chinese farmers start their wheat in seed-beds, and later transplant it at measured distances in the permanent field as we set out tomatoes. They get immense crops. It pays them, because labor is of less

dustry with little more effort, of we gave more careful thought to details and methods? Often we are inclined to act from impulse, instead of from deliberation. Even our thinking and reasoning is apt at times to be illogi-cal, because we are not sure of the facts upon which we base our conclusions; or because our reasons are insufficient. Clear reasoning is often assisted by paper and pencil. The idea apparently is good, but it is vague. Make it specific. Put it down on paper. We would plan to set out a undred new apple trees next spring of a particular variety. What will they cost, not merely merely to set, but till they bear, deducting the acreage taken from the general farming? Counter this "idea" with the query:— What would this same time, labor, and manure on my present orchard add to quantity and quality of its fruit. comes back with the reply: But I want to add this special variety to my orchard. Now bring in a left hander: --Why not graft out a lot of cheap trash now in the orchard and put in thus the desired variety? It is mental boxing match with its blow and guard and counter. In the end you may find "idea" knocked out, and your conclusion to be that there is more money to-day in a fair sized orvarieties, and every tree made to pro-duce its utwos, of the best grade than in an orchard extended to your limit and often neglected. Or, the "idea" may be that because crops are increasing it would be a good "idea" to add more cows Y.ou "counter" this with the suggestion to give the extra feed to the cows you have. Who wins? Surely that should all depend on the special facts that govern your particular case. But it will have to be fought out, not reached at random; for life is real, life is earnest.

ol

ca

re

88 ca st

of

an

ing

feli

dis Wai

ben

pro of h

Frui

Nov dele

mini

to ol

from

case

the f

const

ers fr

them

Scotis

ship :

others

tario

gluttir

and B interes

they d

Nova !

commi

and th service

passing

proved

tity of

growers

- 1

A Danish Fruit Grower of Note

ENMARK, home of cooperative cut twice each day, to avoid the heads dairying, is also the home of a getting colored by the sun and air by dairying is also the home of a rapidly developing fruit indus-try. One of these Danish fruit farms is the property of Mr. Hans Rasmus-sen, of "Progress," Denmark. He writes a Canadian friend about his farming as follows:

farm is 26 acres, of which 10 arm is 20 acres, of which 10 acres are planted in fruit, mostly apples, the principal sort being Cox Orange. A couple of hundred trees are planted of a local variety, Peterstrop Kelnatta. This sort has shown more resisting power against disease, carrier, etc., than sorts imported to a foreign countries. One and a half acres are in raspherries (red). Some of them are planted between fruit as shown in the accompanying illustration. Two acres are in black and red currants (the first pickings ters of an acre in gooseberries, one and one and a half acres in asparagus. factory at an average of eleven cents

Last year my income from the sale asparagus amounted to \$400 an of asparagus annual area of asparagus market requires white shoots. The plants are set one and a half feet apart in the row, and the rows are six feet apart. In the spring the plants, or the rows, are covered with the adjoining mould are covered with the adjoining monay to a depth of 10 inches, in order to secure white shoots of a length of eight to nine inches. The shoots are

\$400 An Acre From Asparagus.

growing above ground.
We also grow some hazelnuts, 1,110

bushes, some of which are planted between fruit trees, and some along the walks, as can be seen to the left in the illustration. In about four acres we grow garden and flower seed, including carrot, aster, viola, clarkia, etc. A plot is used for raising roots of lily-of the valley. A cooperative association has been organized for the sale of the roots. They are shipped to England.

A College Farm.

My farm is acknowledged by the Government of Agriculture as a suit Government of Agriculture able one for young folks to learn fruit growing and gardening. growing and gardening. Preceive from the Government about thirtythree dollars for each pupil, male or female, who has attended an agri-cultural college or any other notable school, and who stays here at least six months. To fully understand this, I may add a few words of further ex-planation. Without going into detail, I may add a rew worse or interest planation. Without going into detail, planation. Without going into detail, if may state that much is being done to help people to obtain a piece of land, and not only to get hold of a tract, but also to teach these people tract, but also to teach these people thow to use and till the ground, in orthogonal to have also to the adult to make a fair living on der to be able to make a fair living on a small tract, say six to ten acres. As fruit growing and gardening re alizes more money than ordinary farming, the Government gives aid to movements working toward this goal The price of farm land, without build ings, is frequently two hundred dol-

PETERBORO, ONT., MARCH 2, 1916

No. 8

Home Markets Unreached by Our Fruits

If Poor People Could Pay More Big Crops Would Be Easily Marketed H. BRONSON COWAN, EDITOR-IN-CHIEF FARM AND DAIRY

HE problems confronting the fruit grower are becoming more complex in character. A few years ago it was the common belief that if fruit growers would merely increase their production their most pressing difficulties would be solved. In time it became apparent that other factors had a determining influence on the prosperity of the fruit grower, and activities were started to secure lower freight and express rates, and ultimately for the appointment of a railway commission. About this time also the importance of marketing fruit on a better and more economical basis was recognized, and cooperation as a remedy was advocated. Growing out of all this, as the local markets became supplied, came the call for wider markets, and experiments were started which had for their object the obtaining of varieties of fruit which would stand shipment,

and also to ascertain the best methods of pack-

ing for distant murkets.

Until recently most of our fruit growers have felt that the fruit growers in other provinces and districts were their competitors, and that there was little in common between them. Recently we have begun to recognize that anything which will benefit the fruit growers in other sections is likely to have an important bearing on our own prosperity. A striking evidence of this new way of looking at things occurred at the last Dominion Fruit Conference in Grimsby. The delegates from Nova Scotia were seeking the cooperation of the delegates from the other provinces in order that pressure might be brought to bear on the Dominion Government to have it use its influence to obtain a reduction in steamship rates on fruit from Nova Scotia to the British markets. Their case was listened to with attentive interest by the fruit growers from the other provinces, who seemed, however, to think that the point at issue constituted a local problem which the fruit growers from the Maritime provinces should solve for themosives. When, however, one of the Nova Scotia delegates pointed out that if these steamship rates were secured it would enable them to market the bulk of their crop in Europe, while otherwise they would be forced to ship to untario and the Western markets, thus possibly glutting these markets, the fruit men of Ontario and British Columbia were quick to see their interest in the situation. Within a few minutes they decided to cooperate with the growers of Nova Scotia, and had appointed a representative committee to wait on the Dominion Government, and thus help to obtain the improved steamship service desired by the Nova Scotia growers. In passing, it might be ad ad that their joint efforts proved successful. This incident shows the identity of interest that exists between the fruit growers of all our fruit provinces.

Leading fruit growers are now beginning to realize and admit that the various complex problems already mentioned do not begin to exhaust those for which the fruit growers must ultimately seek to find solutions. Amongst the most pressing of these is the economic condition of the



THE GREAT HOME MARKET.

In 1901 there were in British Columbia 436,644 fruit trees. The number in 1913 was 2,291,173 trees. In Nova Scotia twothirds of the orchard area is not yet in bearing. In Ontario, orchard planting has not proceeded so rapidly, but even in Ontario there are thousands of acres of orchards which have not yet bo no their first crop. In addition, old and neglected orchards have been rejuvenated. The logical result now faces usoverproduction. Where are we to find a market for our surplus fruit?

The best market lies right at home among the working classes of our cities. It is the price they can afford to pay for fruit that determines its prices in years of large production; and when all our young orchards are in bearing all years will be years of great production. Every movement, therefore, that tends to increase the prosperity of the working people in the cities will also tend to solve the marketing problem of the fruit grower in the country. Our interests are one. This fact is made clear in the adjoining article. But how may the buying power of the masses be increased. By doing away with menopoly and the swollen fortunes that monopoly breeds, and assuring to each man the product of his own toil. The problem is a big one. If we can solve it in Canada we will open such a home market that the only difficulty will be to supply it, the danger of overproduction will disappear, and Canada would prosper as never before.

working classes, not only in our Canadian cities, but in other countries as well. A statement made at the last Dominion Fruit Conference by Mr. Elmer Lick, of Oshawa, revealed as though by a lightning flash something of the nature of this problem. While discussing the problem of wider markets, Mr. Lick made this remark:

"The disturbing feature that confronts us when we attempt to find an outlet for our "apples is the large percentage of the people "in our cities who are unable to buy fruit at "any price."

The importance of Mr. Lick's remark was recognized by all present, but no one seemed to think that the question was one which the conference was called upon to deal with. The problem Mr. Lick called attention to is such a large one it cannot be more than touched upon in this issue of Farm and Dairy. For the present, therefore, let us merely examine the bearing the economic condition of the working classes in our cities at home has on the prosperity of our fruit growers

One of the enigmas of our modern civilization is the fact that large crops of fruit, which should bless the producer and the consumer, often do not bless either, at least to the extent they should, because they result in prices, which, while so low as to leave the producer little or no profit, are not low enough to bring the fruit within the reach of most of the working classes of our large industrial centres. Let us see how this condition works out.

Divisions of Wealth.

in a large city like Toronto there are different degrees of wealth. Supposing apples were a short crop and hard to obtain. Ten families in Toronto might be able to pay as high as \$50 a box and not feel the price. Fifty other families might be able to pay \$25 a box; 100 families \$10 a box; 200 families \$5 a box; 2,000 families, \$2.50 a box, and 5,000 families \$1.50 a box. Should the crop be a large one and the price of apples drop to 75 cents a box there might be 10,000 families who could afford to buy apples at that price. Below this number there might be 40,000 or more families sho, after paying for their clothes, fuel, rent and other absolutely necessary expenses, could not afford to buy apples even when as low as 75 cents a box.

How the Market Price is Set,

At this point a factor enters which should be recognized: That is that the market price of fruit in effect is always fixed by the lowest price the bulk of it is sold for. If there were only enough apples to supply the demand of the 10 families who could pay \$50 a box for them, the price of apples would be \$50 a box. When, however, the

(Concluded on page 8.)

Experience in Growing Seed Potatoes H. T. GOLTZ, MUSKOKA DISTRICT, ONT.

HAVE been asked to give my experience in growing seed potatoes with which I have had very good success. The soil I have to deal with on my farm is a clay loam. This I cannot say is the best kind of soil for potato growing; a sandy land is more satisfactory. I will try, however, and explain my method.

I prefer a field on which there is a good growth of clover to plow down in the first half of September. I plow medium shallow and then add 12 to 15 loads of manure per acre and harrow it thoroughly. The last thing in the fall I plow the field again, plowing deeply this time. In the spring, as early as the ground can be worked mellow, I disc, and from then till planting time, I harrow it a few times, at intervals with a sweep harrow to keep weeds killed and to bre-

serve moisture. When I get the ground in good shape I make drills with a plow 28 inches apart and five inches deep. For making the drills I use a riding plow, which I find most convenient, and cover by harrowing crosswise. I cut the sets by hand, and like to have from one to three eyes in each set. I drop the sets in the drills by hand 14 inches apart. I make a point to have my potatoes planted not later than May 24th, which I find is the best time for Muskoka.

After Planting Cultivation.

About a week after planting I harrow them with a seeding harrow and as soon as the plants show growth through the ground. I go through them with a one horse cultivator and cover them

Potato Spraying Outfit for Small Areas. he piping can be purchased complete with nozzles nd attached to an ordinary farm wagon. The barrel and nump may also be used for orchard spraying.

slightly, continuing this cultivation at intervals, slightly ridging as the growth of the potato advances, say, twice more. By that time the plants should be large enough to cover the ground and leave no room for cultivation. In spraying for insects I use Paris green and water and apply with a hand sprayer which holds about three gallons. I cannot mention any definite time for spraying, except to advise watching the bugs closely and keeping them under control.

Selecting the seed is a very important part in my success in potato growing. When digging the potatoes I have never used a potato dig. ... it may be all right, but I this a it would not be very satisfactory on clay soil. I use a plow and potato fork. When selecting my seed potatoes, which I always do when digging. I use a fork so as to get each hill separate, that I can select tubers from plants which yield all good, uniform tubers and which are a perfect type according to variety.

Changing Seed Not Necessary.

As long as I have farmed and grown potatoes I have not changed from the seed of the Early Rose and Empire State potatoes, which I have grown for 33 years, but kept improving it by selecting the best tubers each year when digging, for the next year's seed. The Davies' Warrior potato I have grown for five years with good satisfaction. I have grown the Early Eureka and Early Ohio also for about 10 years. To get good seed potatoes is just like getting into good stock. Always select the best shaped tubers and continue doing so from year to year. Study your soil and feed it if you want a good crop. Land varies so much in Muskoka District that a manneeds to study his own soil.

To store seed potatoes I pit them on a side hill where the soil is sandy and there is good drawage. I find it best to leave the potatoes in the pit till time for planting and not allow them to sprout much, as sprouted tubers do not produce a good, uniform type of potato.

TNUSUAL success has attended the efforts of Mr. Geo. Johnson, of Peterboro Co., Ont., as a grower of strawberries. His start was made aimost by accident. While busily oc cupied a few years ago farming ninety acres of land, he yielded to the suggestions of his family and put in five rows of strawberries at one end of a small field, "just for family use." That was four years ago. The small family-sized plot of barries proved a pleasant revelation to Mr. Johnson of the possibilities of intensive cultivation, as the five rows which had been intended to supply only the requirements of the family yielded an additional revenue of \$104 from berries sold.

The following year, Mr. Johnson set out half an acre. This also proved profitable, with the result that the next year he had one and one-half acres in bearing. Markets favored his new venture, and all of the crop was sold at prices ranging from 12 cents to 18 cents a box. From his one and one-half acres, Mr. Johnson picked 5,100 boxes. When the boxes had been paid for and picking expenses deducted, he found that he had realized \$670 from the small area in fruit.

In 1915 the market was not so favorable, and equally satisfactory returns were not realized, but still they compared to advantage, considering the labor and capital expended, with the returns from the remainder of the farm, on which general farming was still practiced. Herbert raspberries have been added, and have proved almost equally satisfactory with the strawberries.

"Senator Dunlap and Parsons are my favorite varieties,' Mr. Johnson informed a representative of Farm and Dairy who visited him in the picking season last summer. "We set the rows three and one-half feet apart, and the plants two feet apart in the row. We allow the runners to

Success in Strawberry Growing



run freely, and all the training they get is that given by the cultivator. Of course we aim to cultivate the same way each time. We ain' to take two to three crops off a bed. I have made more money by following this practice than by plowing down after the first crop has been har-

In one respect, Mr. Johnson's methods differ radically from the methods of other fruit growers in his section. "Many have the idea." he said, "that the strawberry plantation should be kept clean the first year but not touched the following spring until the crop is off. We followed the common practice at first, and one year the weeds stood a foot high over the whole bed, but we did not dare to pull them. That year was the first cropping season for the bed, and we should have got a maximum crop. Instead, we got a poor crop. The next year we cleaned that bed thoroughly in the spring, and the result was larger pickings throughout the season."

The cultivator is kept going constantly in the Johnson plantation, even during the picking season. 'Moisture conservation is an absolute necessity to a good crop of berries," said Mr. Johnson. "Rain will spatter more sand on the berries than the scuffler ever does."

Barnyard manure is the staple fertilizer. Mr. Johnson plans to grow roots the first year, applying a good coat of manure to them. Berry plants are set the following spring, and they receive a second and equelly heavy coat of ma-

Factors which have contributed to Mr. Johnson's success have been the fact that the soil on his farm is particularly suited to small fruit culture, while one of the best mark 's in Ontario. the city of Peterboro, is only a couple of miles distant. These conditions have enabled him of late to secure a larger return from his what are now five acres in small fruit than he formely obtained from his farm of ninety acres.

The marketing of apples may be a difficult matter for a few years until production and consumption again equalize themselves. For this reason many orchards will be rooted out and more orchards now in bearing will be wholly neglected. It is well to remember, however, that the easiest fruit to market will be the good fruit. Only with greatest difficulty will poor, wormy apples be marketed at all. My advice would be, therefore, to give the orchard thorough spraying, pruning and cultivation, even if there be little profit in it. The gross returns will be larger and the orchard kept in better condition for the time when the market returns to normal. This will ! my policy no matter how bad the market goes .- E. L. Chambers, Norfolk Co., Ont.

ev ac are tre ste No

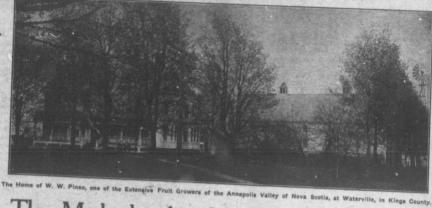
Day

Kin

mo Tor rep est ard prov man arou trod abou to it rapid fond vatio

on i comb yleld exists coste April.

Davi



The Methods of a Veteran Fruit Grower Dairy Cows and Potatoes Also Add to the Revenues of W. W. Pineo, Kings Co., N.S.

W. W. Pineo.

NE of the most pleasant places in Canada is the village of Waterville, in King's County, Nova Scotia. Everybody there grows apples. The eye. of the visitor is gladdened at this season with rich foliage and a profusion of bloom. Among the prosperous residents is Mr. W. W. Pineo, one of the veteran orchardists of Canada. Mr. Pineo be-

gan to plant an orchard 40 years ago, and has planted a few acres every spring since that time. He now has 180 acres under apple trees, of which about 20 acres are in full bearing. His orchard contains 9,500 trees.

The varieties represented in his orchard include Gravensteins, Kings, Blenheims, Northern Spies, Baldwins, Ben. Davis and Starks. He finds Kings and Ben Davis to be the most profitable varieties. "The Tompkins King" he said to a representative of Farm and Dairy, "is perhaps the quickest selling of any of the standard varieties grown in this province. It is in strong demand in the English market around Christmas. It was introduced into this country about 60 years ago, and owing to its size and beauty became rapidly popular. The King is fond of a warm soil, well drained, and likes early cultivation. The claims of the Ben Davis to popularity are based on its long-keeping qualities combined with its excellent yields, and the demand that exists for it among the English costermongers in March and April. Moreover, it blooms

late, and that is an advantage in this climate."

Gravelly Soil Preferred.

The soil of a part of Mr. Pineo's orchard is a sandy loam, and part is a gravelly loam, with a clay subsoil. Mr. Pineo obtains the best results from a gravelly soil. He thinks this is due as much to the depth and natural drainage in such soil as to any other cause. "In Nova Scotia," continued Mr. Pineo, "apples are successfully grown on nearly all kinds of soil from light sand to heavy clay. The sandy soils, when supplied with plant food and humus, become useful for orchard purposes. It is, however, on some kind of loam that most of the orchards in this province are grown. Personally, I prefer a northern slope for apple trees and a site if possible somewhat higher than the adjoining land. On such a situation there is, of course, less chance of injury from frosts, owing to the drainage of the cold air to lower levels. Moreover, I find that a northern slope

tends to retard blossoming until after the period of late spring frosts."

Mr. Pineo claims that young trees from a local nursery, if well grown, are preferable to imported ones. The purchaser has the advantage of inspection before buying, gets stock with roots subjected to a minimum amount of exposure, and local stock is less apt to introduce insect pests and diseases. He uses both two year-old and three-year-old trees, paying from 20 to 30 cents for them.

Preparing for the Trees.

He prepares the soil thoroughly before setting out the trees. This preparation is begun at least one season ahead. A root crop is generally grown, to which is applied a liberal supply of barnyard manure. He has never utilized sod land for orchard purposes. The land is always plowed and harrowed in the fall, and again in the spring before the trees are planted.

The trees are set out as early as possible in the

spring, as Mr. Pineo has found that early planting allows the roots to develop ahead of the buds, so that later on the roots are able to supply the moisture evaporated from the leaves. He sets out the trees 30 feet apart each way and does not use fillers. In digging the hole the top soil and subsoil are often placed in separate piles. In replacing this material, a shovelful of the surface soil is put in first, the tree placed in position, and the remaining top soil filled in around the roots. The subsoil is placed on top. The earth is worked in well around the tree. As soon as the trees are set the land is given a most thorough cultivation by both plowing and harrowing. Until the trees pegin to bear, the intervening ground is planted to potatoes, corn or roots. When the trees come into bearing, the land is cultivated with the harrow or cultivator every week, and after every rain, until the first



Spraying is one of the Operations Never Neglected in the Pinco Orchards.

of July, when a cover crop consisting of clover or buckwheat is sown.

Fertilizing Methods.

"I am cutting out commercial fertilizers as much as possible," said Mr. Pineo, "and using barnyard manure instead. It has been my experience that not much money can be made in this country in raising apples if the grower has to depend altogether on commercial manures. I use some of the straight fertilizers-nitriate of potash, nitrate of soda and bonemeal. I have not found it profitable to use mixed fertilizers. We are told that in countries where artifical fertilizers are used in enormous quantities the use of mixed fertilizers has been almost entirely given up. Many growers in the Nova Scotia fruit belt, where the greatest quantities of commercial fertilizers are consumed, are getting more and more into the way of applying fertilizers, such as acid phosphate or muriate of potash, by themselves, according to the needs of their orchards, or of mixing these together at home when they wish to apply all the elements of plant food. I believe it would be well if more farmers would adopt this practice.

"Conditions vary very much. It would be impossible to describe a fertilizer which would be suitable for a certain crop under all conditions, as there are too many factors to be considered. A farmer, to use manures or fertilisers intelligently, must keep in mind the nature of this soil as well as the character of the crop. I keep a large number of live stock and have about 500 tons of manure available from that source. In addition, I buy yearly about 300 tons of this fertilizer, at from

ure available from that source. In addition, I buy yearly about 300 tons of this fertilizer at from \$1.50 to \$2.00 a ton, according to the state of preservation.

Value of Barnyard Manure.

"We are told that a ton of barnyard manure well saved is worth in comparison with commercial fertilizers \$2.97 cents a ton. But too often under the ordinary farm conditions the manure available has depreciated in value. Farmers are learning, however, that a manure heap may lose more than half its value in a few months through leaching and fermentation. But too many of them do not realize that out of a total value of \$2.97 a ton the liquid part is worth \$2.06, and the solid part but 91 cents. Our provincial Agricultural Department is doing excellent work in advising the use of tighter barn floors to prevent leakage, the use of more straw, earth, muck and other ma terial to absorb the liquids and the storing of manure, whether indoors or out, in a place from which drainage is impossible. The manure heap should be kept level and as compact as possible.

An uneven surface allows an easy circulation of air and, in consequence, rapid formentation. The manure from horses, sheep and poultry, being hot, abould, if possible, be mixed with the manure from the cows and hogs in one common heap. The heap should be thoroughly and freq. spily tramped down. The application from time to time of quantities of dry earth is useful, as the earth absorbs nitrogen and other organic gases which would otherwise be lost.

"I do not use more than 10 tons of manure to the acre in my orchard. More than this sometimes causes an over-stimulation of wood growth."

Pruning Methods.

Mr. Pineo prunes lightly from the outside every June. He prunes the young stock so as to develop symmetrical, well-balanced trees. Bearing trees are pruned so that the tops are opened up for sunlight and the height kept convenient for spraying and picking. The only fungicide employed is lime-sulphur. The proportions used are six gallons of commercial lime-sulphur to 200 gallons of water. About two pounds of arsenate of lead are incorporated with every 40 gallons of the mixture. Spraying is begun just before the fruit buds burst. The young leaves are well covered with the spray and protected against scab (Continued on page 8.)

Suggestions for the Orchard and Garden

How Bonnie Grew Onions

Alice A. Ferguson, York Co., Ont.

ONNIE was a farm hand on a Manitoba farm; hobby - gardening; specialty - growing onions. He chose silverskins, and bought one-quarter pound of seed at a cost of 60 cents. He sowed the seed with a garden seeder. When the green sprouts appeared he trampled the earth with his feet astride the rows. He bought washing soda-25 cents worth-pulverized it, and before a rain sprinkled this up and down the rows to kill the grubs. He kept the rows free from weeds, always hoeing the earth away from the onions to make them grow on the surface. After the tops were sufficiently grown, he rolled them down, so that the growth would got to the bulb. During the season the onions were thinned, supplying abundance of green onions. The two rows planted next to a double row of sunflowers were allowed to go unthinned, as they were for pickling

In the autumn the onions were harvested and dried in the barn. He sold ten bushels at \$1.25 a bushel, besides keeping an abundant supply for home use. Among the pickling onions were many very small ones, which were saved for dutch sets the next season. The onions kept well.

Practical Pruning

S. CHUTE, of King's Co., N.S., known to his friends as "Sam" Chute, is the apple king of the far east. His orchards cover 277 acres of which 112 acres are in bearing. The pruning methods of this great apple grower find their beat endorsation in his success.

In the early days of his experience in apple growing, Mr. Chute gave little attention to pruning, resting satisfied with abundant crops of fruit and healthy growth. But the demands of the market for highly-colored fruit, together with the rawages of apple scab and insect pests, have caused him to give the matter of pruning serious attention. He has learned by experience the impossibility of producing spot-free, highly-colored fruit in the shade. S. B. Chute makes mistakes, but unlike most people he does not make the same mistake twice. He now prunes systematically and thoroughly. The work of pruning begins

MONEY IN THE GARDEN.

A thrifty Swede purchased a worn-out farm in one of the provinces down by the sea. The previous owner had been starved out. Behind him he left several wagon loads of empty tin cans and a big bill at the grocery store. The Swede had an entirely different plan. His ideal of a farm was one that fed the family. His kitchen garden covered half an acre. In it he grew everything in the way of vegetables, and, as the years passed, all kinds of fruits. For several months of the year these thrifty people practically lived off their garden. What the previous owner had purchased in cans they canned themselves for the months when the garden didn't produce. Their outlay for the necessities of life was small. The garden gave them their start by feeding the family when money was scarce. The rest of the farm contributed to their living, of course, but the garden was the important factor. There is profit as well as pleasure in a garden. The moral? Well, how about your garden for 1916?

early in March, and continues well on into April. His general instructions to pruners are: Pirst, to remove all dead, diseased, and crossing branches; and second, to further thin the tree till air and sunlight can freely reach every part: this thinning to be effected rather by the removal of small branches than large ones.

The low-headed tree with open top has the preference, as this type of tree facilitates all orchard operations except cultivation. Canker has made its appearance in a block of Wagener trees, and is being vigorously treated. All the diseased limbs that can be spared are removed, in other cases, the sores are cut back with a sharp knife (a drawing knife may often be used to advantage) till healthy bark has been reached. Under this treatment, these sores as a rule will disappear, especially when covered with white lead paint. Mr. Chute has no use for the pruner

whose progress through the orchard can be seen by the long stubs he leaves behind him. The

by the long stubs he leaves behind him. The limb removed must be cut parallel to the one from which it is taken, and as close to it as possible.

Intercropping Young Orchards* W. T. Macoun, Dominion Horticulturist.

T costs a considerable amount to bring an orchard into nearing. The price of land, cost of trees, their planting and care, and interest on money invested must be considered. To offset this it is important that we get some income from the land white the trees are young.

For the average farmer a three-year rotation, consisting of grain, clover and potatoes, is probably the best. Manure should be applied to the clover in the fall. If the land is in good condition, potatoes can be planted oftener. No matter what crop is grown, a strip four feet on each side of the trees should be left. It should be kept cuitivated and needed to a cover crop at the proper time. A good growth should be obtained in the trees every year. The strips should be in

creased as the trees become larger. When planting potatoes, it is well to remember that the source of the seed is almost as important as the variety itself. Potatoes from districts where the potatoes keep on growing until the frost kills the top nake much better seed than those from parts of Ontario where the tubers are prematurely ripened by the tops dying in hot weather. The latter seed is much weaker in vitality. In experiments conducted at the Ottawa Experimental Farm, it was found that a crop three and one-half times as large was obtained from western grown seed as was given by seed obtained where hot summers are the rule. These results are from an average of eleven varieties. Late planted potatoes will keep on growing until the frost and make better seed than early planted potatoes. These immature potatoes will not sprout as early in the spring, and on this account also make better seed.

An average increase of ninety-four bushels an acre was obtained from plots sprayed with the

^{*}Extract from an address delivered at the annumeeting held in Port Hope, Ont., Jan. 27th, of the Northumberland and Durham Fruit Growers' Asset

Bordeaux mixture over unsprayed plots at Ottawa. insecticide, a mixture of Paris green and arsenate of lead in the proportion of eight ounces of Paris green and one and one-half pounds of the lead to forty gallons of water, has given the best results at the Experimental Farm. The Paris green kills more quickly than the arsenate of lead, but the latter adheres longer. The good qualities of the two are obtained in the mixture. The greatest development of the tubers takes place in the latter part of the summer. If the potato tops can be kept green throughout September, a large crop is assured.

Good valeties for the main crop are: Gold Coin, Green Mountain, and Carman No. 1. For the early crop, Irish Cobbier, Rochester Rose, and for extra early the Early Ohlo give good results. The last-mentioned variety is a rather light

cropper. Davies Warrior is a promising new sort.

Another good crop, where the soil is of a
warm nature, is field beans. They are now selling at a high price, and are likely to be higher
next year. It is very fimportant that no crop that
will injure the trees in any way abould be planted.
Corn, for instance, shades the trees and often
causes them to keep on growing too late in the
season. The little money to be obtained from an
inter-crop will not pay for the injury to the trees.

Thus is success attained in the Annapolis Valley of Nova Scotia. There as elsewhere it comes as a reward to untiring industry, and Mr. Pinco is now reaping the fruits of his labors of many years.

Beautification of Country Homes* R. A. Penhale, Elgin Co., Ont.

THE plans for the beautification of home surroundings in the country must lways be laid with an eye to the saving of labor. Out there on the farms we have large areas

*Synopsized report of an address by R. A. Penhale, St. Thomas, before the recent Horticultural Convention, Toronto.



extra early the Early Ohio give A Dust Sprayer at Work in a New York State Orchard; a Form of Spray that is Giving good results. The last-menGood Results Across the Border.

open space to look after, and the schemes adopted for planting must not be so elaborate as those for cities or towns. There is a vast difference between keeping a city lot and an Ontario farm beautiful and such things as striving after color and mass effects, though they may be all right in the city, are entirely out of place on the ordinary farm.

One of the easiest ways in which the general appearance of the country can be improved is by properly caring for the roadsides. If they are leveled so that an ordinary farm mower can be run over them without any inconvenience, but little labor is necessary to keep them looking like broad boulevards. Then, again, by making the use of the mower easy the farmers are encouraged to keep the weeds down. A great deal of money is now being spent by our Governments for the establishment of good roads. Engineers are employed to lay out road improvements. While they are at it, they should lay them out to the very fences. It would cost but little more to level the sides of the road with the result that they would be kept free from weeds and more attractive looking.

We have found from experience that the Mani-

toba maple is a very suitable tree for roadside planting. It is very hardy and a rapid grower.

In laying out the surroundings of the rural home, the first consideration should be economy of labor in maintenance. The less labor involved in keeping the home surroundings attractive, the more attractive they will be kept. The open spaces should be large and not cut up by trees or flower beds. If they are large enough to permit of the use of the mowing machine, so much the better. Planting should be confined, for the most part, to trees and hardy shrubs which will grow with little or no attention. Such flowers as are planted should be perennial. The outline of the whole should be very simple, and in planning the varieties used should be few in number and perfectly hardy.

Dust Spray for Orchards

R EPRESENTATIVES of the Ontario Fruit Growers' Association, who attended the recent convention of the New York State Fruit Growers' Association, were impressed with the evidence there brought out in favor of the use of dust sprays for apples. For several years experiments have been conducted by the Agricultural Experimental Station of Cornell University with dust sprays. The information furnished during the discussion supported the conclusions set forth in Bulletin 369 of the Cornell University entitled "Dusting and Spraying Experiments with Apples." In brief this bulletin contends, the dust spray does not control scale insects, but it now eems settled that a mixture of an insecticide and a fungicide can be applied in powder form, using air as a carrier, with better commercial results in the control of preventable apple diseases, and of apple insects, than can be obtained by spraying. The dust method makes it possible for the owner of a large acreage to protect his orchard at critical times, a thing that he has not been able to do with the slower liquid process.

The only objection to the general adoption of the dust method of spraying is that there is no known dust preparation which will kill scale insects and such insects as aphis and pear psylle. For this reason those persons who must spray for scale and for aphis will do well to continue with the liquid method.

Benefits claimed for the dust methou are that the equipment is lighter, the application can be made more quickly and easily, as for instance when the soil is wet, there is no trouble from clogsing noziles, higher trees can be aprayed, and the cost, if anything, is less. As yet this new method has not been tested in Ontario, but arrangements are being made by the Ontario Department of Agriculture for a test during the coming season. While it would not do for fruit growers to rush into its use, all fruit growers will be interested in the results obtained from the tests of this spray that will be given next summer.

Our "small fruits" garden is small in two ways. It is devoted altogether to the small fruits and its total area does not cover over one-sixteenth of an acre. Not much land, but the products thereof probably give us more satisfaction than those from a hundred times the area anywhere else on the farm. Our small fruit garden started a good many years ago with a few rows of strawberries.—E. L. McCaskoy.



A Scene that is Typical of the Tender Fruit District of Ontario.

Overlooking the farm of Fred. Woolverton, Lincoln Co., Ont.



(8)

RIDER AGENTS WANTED 10 DAYS' FREE TRIAL DO NOT BUY a Bloycle TWO CENTS IS NOT IN AN



Cotton Seed Meal Linseed Meal and Flax Seed H. FRALFIGH, Box 3 Forest, Out

Methods of a Veteran Fruit Grower

until the second application, just after why an orchardist should not have the blossoms fall, can be given. Two and often three additional sprayings are applied with intervals of 10 days between. Care is taken that a fine spray is produced. Nevertheless, the trees are very frequently drenched. The proportions used, however, admit of drenching without injuring the foli-age, and it pays better to waste lime-

age, and it pays better to waste lime-sulpher than apple. A power spayser is used at a pressure of 200 pounda.

"Spays Thoroughly," "I believe in the goapel of therough spraying," and Mr. Pinco. "We must grow clean apples—nothing clear counts. The orchardist which is the road to the proviouse, and the more apples be grown the sooner had the positioner. And the more apples be grown the sooner had will arrive the sooner had soo will arrive there. Seably apples will not be worth anything in the very near future. Apples can be kept clean in the worst season if the grower knows his business. Many people, knows his business. Many people, when they spray, have in mind only the accessity of keeping the apples clean, free from diseases, so that they may look more attractive, keep better and fatch a higher price. But apraying does more than that, it prevents the premature dropping of fruit and keeps the trees in good health, so that they not only produce more fruit but actually destroy the scale inseast atactually destroy the scale insects that suck the life-blood out of the trees. can understand how the destruc-

the description of these posts increases the vitality of the orchard."

While the orchard represents Mr. Pineo's prime interest, he recognizes that there are other means of making. that there are other means of making a livelihood on the farm. He has an average of 40 acres under cats, 30 under corn, 40 under rye, 70 under hay, and 10 acres under coots. He keeps 100 head of cattle, 78 hogs, and 10 horses. He uses a pure-bred Hole that he will be the cattle that th Holsteins, and the results are most satisfactory. His cows give in June an average of from 35 to 60 pounds of

milk a day "The cry about over-production of apples does not worry me," said Mr. Pineo, "or I shouldn't be setting out ten additional acres under apple trees

more than one string to his bow. Dairying and orcharding fit in very satisfactority together. The fruit Dairying and orcharding it in very estisfactority topother. The irruit grower who keeps live stock that an immediate, a convenient, and a profitable market for his culls. A large quantity of manure is produced and returned to the soil. Moreover, while the beginner is waiting for the young orchard to grow, the cown help pay the bills. Then, by relaining some cash crops, such as small fruits and potatoes, he is enabled to make. A fall 'lying, and when the trees begin to bear the apples seem to come atmost little. the apples seem to come almos'. like a present. The combination of dairying and orcharding enables the grow-er to furnish steady employment to er to furnish steady employment to his men during the entire year, thus solving the help question in a measure, for it is when men are idle in the winter monits that they become rest-ies and what to get away to some other country."

Mr. Pineo keeps careful records of

his farming operations. By reference to his books he was able to furnish the writer with the following state. Sowing fertilizer.... Discing and harrowing..... Seed for cover crop...... Spraying Barrels 27.00 Picking, packing and truckage. 25.00

Each acre of full bearing rields an average of about 110 This, at \$2, gives him a grouper acre of \$220, and, less the ture, gives him a net income of \$105.75.
Mr. Pineo has several times picked
350 barrels from one acre in a season. 350 barrels from one acre in a season. Those were, of course, exceptional crops. His average crop over a large acresse is as stated. His average total crop per year is 5,000 barrels. It must be remembered that this is not a bit of farming on paper, but the concrete results that fr.low the infelligent efforts of a skilled orchardist.

Other expenses

But there is no good reason Home Markets Unreached by Our Fruit (Continued from page 3.) supply exceeded such a demand, but sible home market for fruit has sunk

CLOVER SEEDS

1 Red Clover \$17.00 2 Red Clover 16.00 1 Alsike 13.00 1 Alfalfa (Northern Alsike Grown) 16.00

2 Timothy 5.50

(This seed grades No. 1 for Purity) " 3 Timothy 5.00 White Blossom Sweet Clover 12.50

Terms-Cash with order.

Bags extra at 25c. each. On all orders East of Manitoba of \$25.00 or over we pay the freight.

We Guarantee Seeds to Satisfy or ship back at our expense.
Ask for Samples if necessary.

Todd & Cook

Seed Merchanta STOUFFVILLE

did not exceed the requirements of the 100 families who could pay \$10 a box, then the price of apples would drop to \$10 a box and the 10 families who could pay \$50 a box and the 50 families that could pay \$25 a box would pay only \$10 a box for their fruit. In other words, the amount produced determines the selling price. when apples are so plentiful that in order that they can see sort the price drops to 75 cents a box, all families allke pay only 75 cents a box, all families apples, even if many families can afford to pay much more. Should there he more than anough apples to many the more than anough apples to many the more than anough apples to many the same than a s be more than enough apples to supply the demand at 75 cents a box, then the demand at 75 cents a box. then the growers are forced to seek for a market amongst the 40,000 families or more who cannot afford to pay 75 cents, and in consequence must drop to 80 cents, or to whatever point is within the reach to be a superior of the seek of the s to the fruit grower or, as some happens, not be marketed at all.

happens, not be marketed at all.
Where the Trouble Lies.
Here then is where the real basis
of the marketing question comes in.
The level of a large part of the pos-

below the cost level of production.

The trouble is not that too many apples are produced, but once mor such a large percentage of people who are unable to buy fruit at any price."

It is this condition which knocks the bottom out of the market whenever bottom out of the market whenver there is a large production of fruit, or if all the families in our cities could afford to pay 75 cents a box there would not be enough fruit to go

In time we will realize that the only real and lasting cure is to so change the conditions of the masses that they will be able to pay a price for fruit that will ensure growers receiving a profit for their product. This then is where the fruit grower's interest in the economic condition of the to-called working classes comes in. When such a condition is brought about the bughear of large crops will lose much of its terrors for the producer. To many this problems eeems incapable of solution. There is, however, no certainty of this. When we in common with will be able to pay a price for fruit tica. There is, however, no certainty of this. When we, in common with other classes in the community who are equally affected by it, approach this side of the marketing problem with the same earnestness we have displayed in other matters a remedy for it will be found.

The Use of Fertilizer

8. H. Rittenhouse, Lincoln Co., Ont. O fertilize our strawberries we

To fertilize our strawberries we plough down a clover soil in the familiar and cover it why stable manual and cover it why stable manual and cover it why stable manual and covering the strain of the manure. I look upon the clover as indispensable keeping keeping

Bees Saved Strawberry Crop L. T. Floyd, Central Norton, N.B.

Some time ago, while travelling, I chanced to mention to some parties whom I met that we had received one thousand dollars for the crop of strawberries we had grown on an acre of our farm at Central Nor-ton. From there the story found its ton. From there the story found its way into the local paper. Since then we have received many enquiries r,bout it, and as the subject seemed to be of interest to so many. I thought I would like to state one of the resons why we succeeded in harresting his why we succeeded in harvesting his crop in a year when berries were generally a failure.

We got a fairly good stand of plants on this patch the season before. They intered fairly well, but the spring was backward and cold. They began to bloom about June 1. On the night of June 4 we had a heavy frost, which killed all the blossoms down to the smallest buds. We thought our crop was doomed, becruse we remembered a season about seven years before when a lighter frost had ruined our crop. This was before we began keep-

The evening after the frost it rais The evaning after the treat it rained, a good seeking rain, which caused the plants to set more fruit buds out of the crowns. Where one or two fruit stems had been before, there aprang many more—and in about ten days she patch was white with blossoms again.

Blossoms Well Pollenized.

Ricesoma Weil Pellenized.

Near to this patch we had it colonies of bees. At this time of year the second of the second is a second of the sec the harvest.

of the harrest.

How much do you think those bees were worth to us on that crop of berries? We place it at hundred of dollars, but this is only an estimate. One thing we are sure of, and that it pays well to have a good erop of berries in a year when they are scarce and high in price; and we know the bees were largely responsible for the excellent pollenization of these herries please, and the second of the horse to down our us that we were going to have a crop, we were so sure the frest had fixed them.

The sooner that fruit growers find

The sooner that fruit growers find out the benefit that bees are to them, the sooner they will catch the dollars that are slipping through their fingers because of imperfect pollenization. The profits in beekeeping are not all to be counted in the number of pounds of honey harvested.

LET US HELP YOU FIND THE RIGHT OIL

THE right oil in the right place usually costs less because none of it is wasted. Also it saves money by making your machine work more smoothly and last longer.

The Imperial Oil Company makes a special oil exactly suited to every part of every farm machine.

STANDARD GAS ENGINE OIL

Recommended by leading builders for all types of internal combustion engines, whether tractor or stationary, gasoline or kerosene. It keeps its body at high temperature, is practically free from carbon, and is absolutely uniform in quality.

PRAIRIE HARVESTER OIL

An excellent all-round lubricant for exposed bearings of harvesters and other farm machinery. Stays on the bearings; will not gum or corrode.

CAPITOL CYLINDER OIL

The most effective and economical lubricant for steam engine cylinders; proven superior in practical competition with other cylinder oils.

ELDORADO CASTOR OIL

A high-grade, thick-bodied oil for lubricating the loose bearings of farm machinery, sawmills and factory shafting.

THRESHER HARD OIL

Keeps the cool bearing cool. Does not depend on heat or friction to cause it to lubricate.



Get Better Prices for Your Butter



It has been proven in Denmark, Sweden, Australia and the United States that butter made from cream which has been pasteurized, will sell for higher prices on the open market than when made from raw cream.

We recommend the BEAVER-JENSEN Ripener pasteurizer for any creamery interested in producing a better quality of butter.

Write us. We will be glad to give you all the information wanted, and from our past experience are well quali-fied to furnish accurate details.

W. A. DRUMMOND & COMPANY

Canadian Representatives for the J. G. Cherry Company, Cedar Rapids, Ia., U.S.A.

Sydney Basic Slag

OSTS the farmer \$20 per ton. If you can get a fertilizer that will grow you increased crops and leave a handsome profit after paying for the outlay is it not worth your while to investigate? Think it over and if you let us have your name and address our representative will be pleased to call on you.

The CROSS FERTILIZER CO.

Sydney Nova Scotia



Hints for March

Hints for March

This is the month to produce fall

Alayers, so it is time to be settling
things in readiness for the spring
work. Hatching coops should be
cleaned and painted so old biddy will
not be kept waiting. "There will soon
be plenty of chicks, and time is scarce
at this time of the year.
In the breeding pens should be
found oyster shells, grit, charcoal, and
green stuff.

areen stuff.
If the house tave been too closely
confined in glass houses the eggs for
this month will not hatch well. Lest
them have some freeh air and exercise
to set them thoroughly alive again.
Healthy hens lay eggs if they are
not abused. Do not neglect or try to
not abused. Do not neglect or try to
the open
front house unit enable one to freat
the birds fair.
Make table scraps the foundation
for a wet mash occasionally. Do not
or a wet mash occasionally. Do not

Make table scraps the foundation for a wet mach occasionally. Do not feed it in a sloppy mach part at the have it in a sloppy mondition. He have it in a scrupbly condition. Keep the house free of draughts and have a good clean litter to eartach in. If the rooster is old do not have too many hens in the breeding pen if you want the eggs to hatch well.

There is no need of a male bird if keeping hens for eggs alone.

Take good care of the birds and they can be developed into good, hardy stock.

set as many hens as possible this month. If an incubator is used, follow the directions closely and do not try to experiment. The man who made the machine undoubtedly knows more about it.

It isn't always the fancy stock that

pays the mortgage. Give plain old biddy a chance on it. Plenty of brains and good common sense, as well as some capital, is needed in the poultry business.

Efficient Poultry Farming

Efficient Poultry Farming

LDHAM FARM" is the largest ege farm in Canada. And in connection therewith is an interesting history. Mr. Lewis N. Clark, the proprietor, a young United States angineer, came to Port Hope a few years ago to spend the summer and the proprietor his health. He dopted the proprietor his health. He came so selected of the bubby, and be came so selected of the proprietor has been in the States. During the five or six years that Mr. Clark has been in the business, he has made a full study of every phase of the poultry industry, and is now recognized as an authority of all that pertains to chickens. Small wonder, then, that he was selected to deliver the leading poultry affores at the result. Others Winter Pair.

Mr. Clark selected as his subject.

the leading ponitry address at the recent Ottawa Winter Fair.

Mr. Clark selected as his subject, "Efficiency in Poultry Farm Management," and confined himself to computer because the poultry as the major of the computer with the comment of the c

statement that there are many fallures in commercial poultry keeping. "One reason for these failures," said he, "is that many of the men who go into it have also been a failure in other business. Perhaps they have failed four or due times. The provitive reads at the failure in the control of the control o

Estimated and Actual Profits.

Restinated and Actual Profits.

Mr. Clark then estimated the profits of boultry farming as the green endocated it apt to see it. Fourteen dozen the see a hen, \$4.50; feed \$1.50; labor, eggs a hen, \$4.50; feed \$1.50; labor, eggs a hen, \$4.50; head, \$1.50; labor, eggs a hen, \$4.50; head, \$1.50; labor, eggs a hen, \$4.50; labor, eggs a hen, \$4.50; head, \$1.50; labor, eggs a head, egg

"I am asked how I tell good layers from poor. Trap nesting is the only absolutely sure method. There are other indications which I consider certain enough. These are three in

number:

"(1) Time of moulting. Hens that
moult last are the greatest producers.
The earliest moulters are the poorest
layers, although they look fine in the
fall because they have been so easy
on themselves.

on themselves.

"(2) Color of the ear lobe. This deferminant, of course, applies only to those breed which have white ear lobes and yellow limits. Poultry that day well is been allowed the carry winter have white or light value carry winter have white or light value colose. In non-layers the earliest of the top the carry winter have white or light value of the lobes. This I consider one advantage of the white Legiburn, in that members of this breed have white lobes.

"(8) Color of shank. The celor here does not change as rapidly as in the ear lobe, but the same general rules apply."

Production Comes First.

Production Comes First.

In considering efficiency generally,
Mr. Clark did not place business efficlency first in running a poultry plant,
as is so commonly done nowadays,
as is so commonly done
the product to be so the posttry farm we can sell whatever we
produce."

try farm we can sell whatever we produce."

Next in importance to culling the flock, Mr. Clark placed the time of hatching. The pullet he regards as the highly-proftable bird. Pullets lay from October to January, when ega are high in price. Yearling hens start on high in price. Yearling hens start are high in price. Yearling hens start are highly higher which we have been a count of the price of the price

TOP DRESS all your Crops with Nitrate of Soda alone, no matter what other fertilizers you may have used. 100 pounds to the acre for pounds to the acre for cultivated to the acre for c

ean to comfield, disk your roadsides and kill the chinchbugs. The Cutaway

ush and Bog Plow s away with the bushknife d shovel-it's better cer and cheaper. The forgest cer and cheaper. The forgest Cutaway disks penetrate deep, cut-cots, turia...d trash and palver ising gil. Spiendid for deep tillage. a and 4 hores. Reversible. If your has not the grandess Cutaway write

THE CUTAWAY HARROW COMPANY Maker of the original CLARK dish harrows and ple 665 Main St., Higgsams, Conn

Illustrated Catalog * Wondaries OF THE BROODER Study CANDEE Advantages E'A lift SAUDE BOB BOB BOB BOB

WHITE AND COLUMBIA WYANDOTTES, LIGHT BRAHMAS, S. C.
Michael K. Boyer, Box 23, Hammonton,
N.J.



Feeding Methods.

Feeding Methods.

This concluded Mr. Clark's address proper, but he was kept busy for another 10 or 16 manutes answering questions. He gave his laying mash and bush parts of wheat, corn, oats and bush parts of wheat, orn, oats and bush parts of wheat, or manuely the parts of feed of the University of the control of feed of feed, in the part of feed of feed, in the parts of feed of feed, in the feed of feed of feed, on the feed of feed of feed of feed of feed, on the feed of feed of

Supplies for the Coming Season

R. F. Whiteside, Victoria Co., Ont. This is a good time of the year for farmer beekenpers to get their supplies ready for next summer. It is usually as for if one has from at 20 colonies to make enough hives to 30 colonies to make enough hives to accommediate as many more been usually safe if one has from six to 20 colonies to make enough hires to accommodate as many more bees, for the number of the same of the s





(12)

Doesn't it help the digestion wonderfully? I get rid of that stuffy feeling, after a hearty meal, in great shape. It's a blessing in the barn and in the fields too, when a fellow's thirsty and wants something to sweeten his mouth-something to chew on. It keeps the teeth clean, too."

"Yes, Will, it's a fine help in my hot housework - the cooling mint taste lasts so long!"

"Mother, have some

Two delicious flavore. Beneficial,





OF YOU

A FAVOR Please mention FARM AND DAIRY When writing to our advertisers

Approved Methods Again Prove Profitable

THE possibilities that is in many a neglected, orchard have been revealed, among others, by F. H. Johnson, of Bridgelows, N.S., who for some years has obtained an average profit of one hundred dollars an acre from a reclaimed orchard. These results have been accomplished by the thorough application of the principles of orchard practice frequently desired the principles of orchard practice frequently desired.

Mr. Johnson's orchard comprises ten acres, five of which are in full bearing. ant. Joinson's oreand comprises ten acres, five of which are in full bearing. Waen he purchased his farm in 1899, the orchard contained 300 apple trees. In the property of the contained the property of the contained and proves and beautiful to the contained and never and the contained the contained and never and the contained the contained and never and tendence of the contained the contained and the contained the contained and the contained the

three hundred barrels of clean frest of good size. The orchard now contains 1,000 trees, one-half of which yield an average crop of 800 barrels of first-class merchantable apples. When ask-ed by a representative of firm and Dairy for details of the methods by which these results had been reached, Mr. Johnson saddit smet. Mr. Johnson readily responded

Principles of Success. "I attribute," he said, "what success I have met with to four opera-tions: First, apraying; second, cultiva-tion; third, fertilising; and fourth, pruning. The best soil for an orchard pruning, ane oest soil for an oronard is a light or gravelly loam. Mine is a light loam. My orchard is situated on the creet of a hill and slopes to the north, west and south. So far as I can see, the slope of the orchard does not make any difference in this part of the make any difference in this part of the country. Of course we are not troubled with spring frosts here. It is possible, perhaps, that where these are prevalent a northerly slope would

possess slight advantages.

"I have practised thinning for ten years with good results, about the first of July I so through the orchard for this purpose. This practice gives me larger fruit, more even in site and because the process of the proce me larger fruit, more oven means much better colored. Moreover the fruit can be handled much more quickly in picking and packing. Thinning is one of the important operations in growing first-class fruit. The superintendent first-class trust. The superintendents of the Dominion Experimental Station has directed experiments in thinning in my orchard. The Blenheim variety man directed experiments in thinning in my ordand. The Biencheim variety was selected for the test. Five trees were compared with sevent in all these were compared with sevent in the sevent of the apples were control to the selection of the apples were removed from the thinned trees on July 16th. The apples were counted when picked and were peacked by the Cooperative Fruit Company, of Bridgetown. All the barrels were marked so that the alignment could be traced to the selling point, and the processor of the selling point, and the processor of the selling point, and the purchaser have nothing to the nature of the experiment. The number one fruit from the thinned trees sold at 24 cents a barrel more than for the same grade from the unchanned crees."

Cost of Production.

Ber, Johnson, values his bearing orchard at five hundred dollars an acre,
which at all oper one.

thirty dollars. He has keep contain

thirty dollars. He has keep contain

costpla. The factilizer used per acre

averages \$11.50. Sowing the fertilizer

costs \$1 an acre, discing and harror
ing \$5, seed for the cover crop \$25.60,

harries \$30, syraying \$112, and picking,

packing and truckage \$30. The total

outlay per acre of bearing orchard he

places at \$1122. For the past number outlay per acre of bearing orchard he places at \$122. For the past number of years he has averaged 120 barrels to the acre, and his average price for all varieties has been \$1.86 a barrel. This gives him a gross income per acre of \$222. and a net profit of \$100 an acre. These returns show an encourage in the programment over these security.

aging improvement over those former ly obtained from this land.

Cost of Production.

Suggestions on Pear Culture A. W. Cook, Wellington County, Ont.

DRUNING pears must be done with similar to that of the apple. Cultithe idea of securing fruit buds near centre of tree. This alle-viates the tendency of large limbs to viaces the tendency of large limbs to break under the strain of their crop. Remember to disinfect all large wounds, that are the result of prun-ing or other causes, with lime-sulphur solution or some other disinfect. Take solution or some other disanfect. Take the greatest care to thoroughly treat the pruning tools while going from one tree to another. If this is done lit does not leave an opportunity for this disease to gain a foot hold in the

Thin the Fruit.

When the tree reaches maturity and comes into the bearing state there can be a considerable amount of time sav-ed in the thinning of the fruit by pruning of the fruit spurs. There is one disadvantage in this method when the orchard is located in a section that is kn-wm to have late frosts. As the pruning should be done before the leaves start there is apt to be enough ieaves start there is apt to be enough fruit spurs left on the tree that has been late in maturing to give a yield of fruit, while if no thinning had been done there probably would have been a light crop of fruit. However, taking into account this one disadvantage, pruning can be and should be practiced more throughout Outario varieties of fruit, can be made to yield more regularly by regular, systematic pruning and the thinning of the fruit each year. The cultivation of the pear is very

m of the pear is very

sminar to that of the apple. Culti-vation should commence as early in the spring as it is possible to do so, cultivation should be thorough and done systematically. It is very essen-tial to keep a dust mulch at the sur-face to maintain the necessary moisface to maintain the necessary mois-ture for proper plant and fruit devel-opment. As all fruits are composed mostly of water, the necessity of main-taining the soil meisture will at once be seen. This is the case in practi-cally all orchards. The humus can to a large extent be enlarged by the use a large extent be enlarged by the use of cover crops. Among the best cover crops we have vetch, rye, rape, turning and winter oats. The rye and vetch are sown in the later part of segunt so as to attain a good heavy crop. After this is plowed in during the spring it is generally followed by rape or summer turnings.

In cultivating the orchard one si not continue it later than the latter part of June for the southern coun-ties. If cultivation is kept up it in-duces large twig growth. If a high color is desired, this is a serious handi-cap. There has been a feeling amongst cap. There has been a feeling amongst fruit growers in Ontario that certain chemical fertilisers would produce highly colored fruit. From experimenta conducted by the Ontario Agricultural College, at has been found that very little of the color is derived from the use of fertilisers. If one were to alternate the use of bearmand manures with commercial fertilisers R will be found more prodictable than if either in used separately.



A Bordeaux Mixing Plant That is Giving Good Service. The simplicity and convenience of this system will appeal to every fruit grower who prefers to use Bordeaux to other spray mixtures, to combat fungus diseases

Capital for Cooperative Associations F. C. Hart, Markets Branch, Department of Agriculture, Toronto, Ont.

a class, farmers in the past used as capital. This presupposes, of have shunned moncey. A man who berrowed course, that the capital so equired was epic be looked upon as a special consistency of the share system as applied to cooperation is that cital expensive modern mainterest must be paid on the capital upon assistant was a special to the capital upon assistant was a capital to the capital upon assistant was a capital to the capital to the capital upon assistant was a capital to the capital to the capital upon assistant was a capital to the capital to the capital upon assistant was a capital to the A S class, farmers in the past have shumed borrowing morey. A man wao borrowed morey was spi to be looked u.on as inefficient. This was due perhaps to the fact that expensive modern machinery was not required in farming and a comparatively large capital un-

ecessary.
With the growth of farming as business, however, and the introduc-tion of more and higher priced imple-ments, capital, as it is in any busi-aces, became necessary. To wait till this capital is accumulated from the this capital is accumulated from the annual profits of the farm is a slow pro-cess, and especially when the machin-ery for producing extra profits is lack-ing. And so the farmer to-day, like the business man, borrows money for producity spurposes. This basic prin-ciple is that the borrowed capital should be used in such a way as to return not only interest and deprecia-tion, but something over to pay back. tion, but something over to pay back the capital.

the capital.

In Ontario, farmers are so using large amounts of capital and have become business men in the true sense of the word. This is an encouraging fix-a wire we come to consider the formation of co-operative societies for business purposes.

Methods of Securing Capital.

When a group of men is formed for carrying out the business operations of organizations, capital is necessary. There are two ways of securing this capital: First, by sathering together the cash savings from the individuars in the group; second, by using the credit of the members. The first is accomplished by selling there in the company or association, the mean secondary or association, the mean companying for the same in cash. Joint stock companies are formed on this basis. The cash so obtained is put to the upes intended, and the earnings are returned to the obtained as a companying the comp accomplished by selling shares in the in proportion to the business each

gave to the association. The second method of raising capital in a co-operative association by the credit of the members is accomplished by taking a joint and several note of the members, or by individual notes. These notes are placed with the bank-rough of the members of the rought of the members are placed with system the aline of credit. By this system the actual cash of the members is not actual cash of the members is not

has been accepted by the association, and interest must be paid on it. If this interest is six per ceat, and if part of the year the money is lying in part of the year the money is lying in the bank at three per cent, a certain loss results. By the note system in-terest is paid on capital only while in actual use. When the money is not actual use. When the money is not long as the association is a pay-ing enterprise, the individual member does not need to have cash in the bank to meet his note: Simply his credit is need. credit is used.

Factors Controlling Borrowing In acquiring capital for co-operative sociations, certain factors must reassociations, certain factors must re-caive attention. The most important is that the loan must be repaid. The business for which it is to be used-must be productive. If the business to be undertaken is unsafe, it is un-wise to borrow capital under any con-ditions. Another factor of importance is that provision should be made for is that provision should be made for depreciation, where the capital is used for tools or buildings which deterior state. This depreciation account should amount to the fail value of the tools or building by the time they would have to be renewed. For instance, if a spraying outfil bought with such capital will last for ten years, one-tenth of its fail value should be put saide each year, in other words, the saulpment should now for fisself with such provided the provided that the saulpment and provided the saulpment and provide aside each year. In other words, the equipment should pay for itself within its lifetime.

in its lifetime. A third important factor is the rate of interest. This should be as low as possible. The difference between five per ceat, and seven per cent. is, of course, only two dollars per one hundred dollars a year, but this small difference is important in any going concern. Under the mote system of raising capital, the security offered is of the best, and should command a low path of interest. Suppose twenty path of interest. Suppose twenty path of interest. Suppose twenty path of interest suppose twenty in the value of interest suppose twenty in the value of the path of the path of the path of the value of t

Business Without Capital,
Many co-operative associations
Ontario are endeavoring to do buness without capital. Where limits

Business Men and **Business Farmers** Agree

In the great McGill Building in Montreal, where men of big business meet daily, immense quantities of Nato holding low tile were used. On many prosperous Canadian

many prosperous Canadan
farmsteads the same hard
burned clay tile is the favorite
for silos and farm buildings. Busness men and business farmer alike agree on the material that is
atherproof, decayproof, frostproof, werminproof and fireproof. Such is the

Natco Imperishable Silo "The Silo that Lasts for Generatio

National Fire Proofing Company

of Canada, Limited 1903 Dominion Bank Building

Profits from the Deering Disk

Tell us what you are thinkin building. We have plans barns, corn cribs, garages, etc.,



HERE is more than one good reason why so many farmers use Deering disk harrows

and other Deering tillage implements, but all those reasons can be summed up in one word—Profits. There is profit in a well-disked seed before plowing. There is profit in a well-disked seed before plowing. There is profit in a well-disked seed before plowing. There is profit in a well-disked seed before plowing. There is profit in a well-disked seed before promise. There is profit in a well-disked seed before plowing. There is profit in a well-disked seed before plowing the profit in a well-disked seed before plowing the profit in a well-disked seed to the profit in the bestings, does the place profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and better profit, than if the Deering disk had not a higher price and had not a higher profit in a well-deering till price and had not a higher price and had n

International Harvester Company of Canada, Itd.



TIME

Custom Tanning-Horse Hides and Cattle Hides for Robes and Coats ed them to me and have them tanned soft and pliable. All kinds of

s, sheep skins, etc., and Furs dressed. B. F. BELL DELHI, ONT.

SMITH'S FALLS

This new Frost & Wood catalogue is just off the press

We have a copy ready for YOU—send for it to-day. Doing this puts you under no obligation whatever.

Binders Mowers Hay Loaders Rakes and Tedders Manure Spreaders Field and Corn Cultivators Seed Drills Fertilizer Drilla Rollers Drag Harrows Disc Harrows Walking Plows Gang Plows Sulky Plows Disc Plows Weeders and Scufflers Corn Planters

Potato Diggers

Engines and

Grinders

Pulpers and Slicers

From cover to cover it is full of helpful information. It describes and illustrates the Frost & Wood Line, and these descriptions alone are vitally useful as they tell what you can expect and GET from Frost & Wood quality implements.

Every Frost & Wood implement is worthy of your complete confidence. Every one has been designed by experts, improved by experts in actual use, and every implement is guaranteed to have passed our own tests which are far more severe than actual use.

Implements that last—that help the farmer make more mone, get bigger crops and better crops, with more and more of the humanlabour element left out-that's the Frost & Wood aim.

Send for the new Catalogue to-day. Use the Coupon below. Address our nearest Branch or Head Office.

The FROST & WOOD Co., Ld., Smith's Falls, Out. Sold in Western Outario by THE COCKSHUTT PLOW CO., Ld., Brantford.

Dear Sirs.

Please send me your new Catalogue as advertised above:

Name

Full Address

(Tear out, fill in and mail this Coupon to-day to our nearest Branch or Ecad Office. You get the Catalogue by return mail). Dept. 108

work to their entire satisfaction but unbusinessities.

where the business undertaken has been spreviously carried on by a captilised concern, the association may be a secondation and the secondation of the secondation of

Fruit Tree Grafting for the Amateur

A Clear Expositson of the Practice of a Simple Operation—By John Gall, Peel County, Ont.

RAFTING is usually performed in not be held sufficiently firm. It is the spring, about the end of well not to graft two horizontal limbs March or earlier if there are one directly above the other, as the signs of spring influence. Grafting is tendency of new growths is upward signs of apring influence. Grafting is simply the transfer of a shoot carry-ing several buds, from one tree to an-other; and this operation may be per-formed by the amateur with ease if only a little care is exercised. only a little care is exercised. The care is exercised to the care to make the care is exercised. The care is exercised. The care is exercised, and only a little care is exercised.



A. Tongue grafting, scion and stock pre-pared. B. Same placed together. C. Tied.

The first point in successful graft-

The first point in successful grafting is to secure an intimate union of the parts—not a mere sticking together, but an absolute union.

In all methods of grafting the shoot to be transferred is called the scion, and the store which is to receive it is a first union. importance, when cutting scions, to select only from trees which have the desirable characteristics most strong-ly mark. a, and by so doing the indi-vidual may greatly improve his plan-tation by top-grafting with scions from

a tree having the desired qualities.

It is essential that the cambium layer—that is, a layer of tissue formed between the wood and the bark-of the scion and stock be in contact on at least one side. From this layer, the new cells are formed, which

At least one size. From this layer, the new cells are formed, which through lime unter the parts and open the wounds made by grating to prevent the wounds made by grating to prevent the wounds made by grating to grating the support of the property of the least After the scion is set, the wound should be covered over with wax to exclude the air.

When cutting off large branches for

wax to exclude the air.

When cutting off large branches for and the leaves saipped of piece at cleft grafting, it is always a good idea a time wherever they keep bleec at cleft grafting, it is always a good idea a time wherever they keep bleec at cleft grafting, it is always a good idea a time wherever they keep bleec at cleft which was a simple of the said to make a second cut, making the first from getting at the fruit conceasing for the secient. Then cut of the hoe, as with the latent instead and thus avoid the danger of tearing grow close to the surface. The said that the said is a tendency to injure the roots which had the said that the said that the said that are mough fruit were taken from one plant, to admit the scions. Avoid making This should prove convincingly that too deep a split, as this tends to it is a good policy to keep the plants weaken the stock, and the scions will off the ground.

one directly above the other, as the tendency of new growths is upward, and the growth from the lower one will come in contact and interfere with the other. In branches other than those growing directly upright the split should be made parallel to, rather than at right angles to, the ground. The scion should be made wedge-shaped, with bevel about one wedge shaaped, with bevel about one inch long, starting at each side just at the base of a bud. Make the sclon three buds long, cutting off just above the third bud. It should be cut at littly thicker on the aide next to the bud, the should be cut at littly the contract of the bud of the starting the starting the starting the starting the starting the starting chief and insert one of the grafting chief and insert one

Open the cleft with the wedge end of the grafting chisel and insert one or two scions, as may be thoughf, necessary. Place the lower bad of the scion to the outside. The scion must not be forced down, but open the cleft with enough leverage on the skind is admit the scient frash. Set. chisel to admit the scion freely. Setting the scion with the top pointing slightly outward guarantees contact in at least one point. Use grafting wax to cover all wounds.

Training Tomatoes Geo. Baldwin, York Co., Ont.

HERE are many systems of training and attending to to-matoes. I have tried training matoes. I have tried training them in almost every conceivable manner and have proved to my own satisfaction that the system here described is the best method.

stakes are driven into the ground at an angle of about 75 de-



H

ga

spo

kno Nes

grees, outwards, about six inches from the root, and four feet six inches shore the ground. The vine is tied to the stakes with raffia every eight inches up the stake. All laterals and suckers are removed as soon as they come. The fruit is picked as soon as ripe. The roots are kept moist and the foliage dry, and the leaves saipped off a piece at and the feets soon off a piece at and the leaves saipped off a piece at

How One Horse was Broken

A musing illustration of the power of determined patience is related by Captain Kerr, of the British Cavalry. In his own words it

"I may instance the treatment by which a well-known Yorkshire breed-er and breaker—one who always broke-in his own colts—cured a stabborn in his own colta-cured a stuborn and by no mean uncommon also of mulishness. Riding a colt one also about noon, the colt results of the coltable of the coltable of the coltable. The read that led to his stables. He reared, whipped round, kicked, plunged, stuck his toes firmly in the ground, backed into the ditch, and otherwise behaved, himself unseemly.

Many a man would have administered severe nuishment, and have

tered severe punishment, and have endeavored to exercise the demon of contrariness by free application of the Newmarket flogger and the Latch-fords. Our friend's creed was the fords. Our friend's creed was the suavitor in modo, spiced with patient determination. After schausting every method of kindness special countries, and the special countries are special countries. The special countries are special countries and the special countries are special countries. The special countries are special countries and the special countries are special countries. The special countries are special countries are special countries and special countries are special countries. The special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries are special countries. The special countries are special countries are special countries are special countries. The special countries are special countries. The special countries are special at Hyde Park Corner.

STILL OBSTINATE.

"At the end of an hour's anchorage a fresh essay to make the pig-headed colt go in the way it should go result-ed in a renewed exhibition of rearing. Observing a lad passing at the time, the determined tyke ordered him to go to his wife, and tell her to send his dinner to the cross roads, for the tender to the cross roads, for the decision of the control of the co ther effort was but a Iresh failure, so the statuesque, weary wait was resum-ed, and the veteran breaker sat again for hours immovable. Here was the living exemplification of Patience on

living exemplification of Patience on a monument.

"With the setting sun came the horseman's supper, still not as move, and the sturdy yeoman prepared to make a night of it. In this topcost and a stiffly mixed 'need' the cap' arrived. Whether or not the cap' arrived. Whether or not the cap' arrived. Whether or not such that the cap' arrived. Whether or not have cap' arrived. Whether or not have cap' arrived. Whether or not have cap and the control of the comparison arrangements deponent sayeth not; anyhow, his master had hardly donned the one and swallowed the other when the quadruped, with one long sigh, one that nearly carried the girths away, all his obstinacy evaporated, and throughly defeated, and thoroughly defeated, and the country of the control of the

Huntingdon Dairymen in Convention

ISCUSSIONS and lectures at the babyhood of the cow. He claimed 94th Annual Convention of the that many cows were ruined by being Huntingdon Dairymen's Assostunted when in the calf period Huntingdon Dairymen's Association, held at Hemmingford, Que, on Feb. 18, were all practical: as Prof. Barton, of Macdonald College, said, they all centred around the "old farm."

Prof. Barton was the first speaker at the morning session. He dis-cussed the horse industry and surcussed the horse industry and su-prised his hearers by stating that in spite of their many competing agents, horses were the only branch agents, horses were the only branch of live stock that show a steady increase in numbers. The horse is still the chief propelling farm power and the speaker believed there would always be a place for good drafters. At the college farm they had found the idle horse in winter was a loss, but by having the mares foal in the fall, this loss was overcome to a large extent. large extent.

As Hemmingford is a great apple producing section, an hour or two was given to fruit growing. Fred H. Grindly, of the Fruit Branch Ottawa, spoke on the marketing of apples and advised the cooperate apples and advised the cooperative system new so successfully carried over the company of the cooperative system new so successfully carried to the cooperation of th chard practice.

chard practice.

The building up of the dairy herd was discussed by two of the best known breeders of Queen, R. R. Ness and Neil Sangstor.

Research and the influence of a pure-bred sire, as the most imporbance for in herd improvement. Mr. Sungster recognized the importance of the sire, and along with this advocated that more attention be paid to the

e babyhood of the cow. He claimed that many cows were ruined by heing stunted when in the calf periad through lack of proper feed and care. The evening session was onened with an address by Prof. Jull. of Macdonald College, on 'Farm Poulstry,' His practical talk was illustry. His practical talk was the interesting of the evening was the property of the evening was the property of the scrub bull was followed by one of the \$80,000. Holstein bull. That like produces like was strongly demonstrated by the pictures of the champion Ayraterpiece, and his son Hobstand Perfect Piece under the champion Ayraterpiece of the Champion Ayraterpiece

buil of the United States.

As Macconald College has decided wing to lack of funds, to close the offices of the college demonstrators, situated in eight counties, on April 30th next, Mr. David Pringle moved, seconded by Neil Sangster, that the Provincial Department of Agriculture he memorialized to allocate a special amount from the federal government grant to the province to Macdonald College for the continuance of the district demonstrators' work metalicial to the province of the district demonstrators' work metalicial to the province of the district demonstrators' work metalicial to the province of the district demonstrators' work metalicial to the province of the district demonstrators' work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work of the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonstrators work metalicial to the province of the district demonst

President — D. H. Brown, Beith, One.; Vice-President — R. R. Ness, Chowick, Que.; Secretary-Treasurer-W. P., Stephen, Huntingdon, Que.; Directos—Alf. Alseph, Valleyfield, Que.; Nell Sangster, Ormstown, Que.; D. A. McCornick, Allan's Corners, Que.; D. A. McCornick, Allan's Corness, Que.; M. M. McNaughton, Howick, Que.; M. M. McNaughton, Howick, Que.; M. M. McNaughton, Howick, Que.; M. M. McNaughton, Huntingdon, Que.; Go. Brusard, Huntingdon, Que.; All Go. Tennant, St. Louis, Que.



You Get the Biggest Engine Value For Your Money When You Buy an

Alpha Gas Engine

OU should measure the value you receive for the money you pay for a gas engine by what the engine will do for you.

Possibly you can buy an engine for less money than you can an Alpha, but you cannot buy an equal amount of good service in any other engine for as little money.

In the Alpha you get for your money more years of service, the low-est fuel cost, exceptional freedom from the need of repairs and the easiest engine to operate and care for.

The Alpha is a simple engine, with plenty of power, perfectly con-trolled Alpha is a simple engine, with plenty of power, perfectly con-trolled by governor that keeps it running steadily and smoothly under light, heavy parts to require constants. This engine has no complicated, delicate sparts to require constants attacked in a more constant and parts to require the property of the controlled and provided the controlled and t

Not need a gas engine on your farm. In a very short time the saving resulting through its use would pay for an Alpha. Buy an Alpha now, the engine. Alchest and best way to save the money that is to pay for the engine. Alchest and best way to save the money that is to pay for a lot of valuable information about engines.

lade in eleven sizes, 2 to 28 H. P. Each furnished in stationary, semi-artable or portable style, and with hopper or tank covied cylinder.

DE LAVAL DAIRY SUPPLY CO., Ltd.

ARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA, alle distributors in Canada of the famous De Lavel Cream Separators and Alpha Gas Engines. Manufacturers of Ideal Green Feed Silos.

Catalogue of any of our lines mailed upon req

MONTREAL PETERBORO WINNIPEG 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

PEERLESS PERFECT



STAYS"PUT

DEERLESS Perfection is one of the easiest fences to erect, because it stays "put." It can be erected over the most hilly and uneven ground, without buckling, anapping or kinking. Every joint is locked together with the well-known "Peerless Lock." The heavy stay wires we use pre-

vent sagging and require only about half as many posts as other fences.

Peerless Farm Fence

is made of the best Open Hearth steel fence wire. All the impurities of the steel are burned out and all the strength and toughness left in. Makes the fence elastic and springy. It will not snap or break under sudden shocks or quick atmospheric changes. Our method of galvanizing prevents rust and the coating will not flake, peel or chip off.

Send for catalog. It also describes our farm gates poultry fencing and ornamental fencing.

The Banwell-Hoxie Wire Fence Co., Ltd. Winnipeg, Manitoba Hamilton, Ontology



Results From the Use of Good Seed

F. C. Nannick, Agriculturist, Commission of Conservation, Ottawa

During the past three years the every man is sowing selected, or reCommission of Conservation has slickered seed and states that it pays a conducted filastration work on the me say that it bigger and better cripps. All the combe of farms in Canada. The come something of most seed has been consistent to the mean of the company of the From the reports of 23 of the far-mers who have been doing illustration in a cathering and far-reaching re-sults in each community. The follow-tonian are extracts from the letters rework in the five eastern provinces, ceived from the farmers themselves: many valuable facts have been secur-

(16)

Sixteen of the men stated that they had not previously been sowing the varieties and strains of grain on their farms to give best resuits, and 18 say they are now sowing varieties which are more suitable to them and their neighborhood.

Couly three claim to have been sow-ing selected seed before beginning work with the Commission, while now

URING the past three years the every man is sowing selected, or re-

Nelson Peterson, (Kingsville, Ont.):
"Three years ago, I thought I was sowing good seed; now I find it pays to sow the best that can be had."

George R. Barrie, (Galt, Ont.): "As to Indian corn—It is cheaper to pay \$10 a bushel for good kiln-dried corn than to sow the shelled corn that is sold in the stores. Two acres sown with selected corn purchased on the coh, costing \$2.50 to \$3 a businel gave almost twice as much weight of enalizage as two acres sown from shelled

corn in sacks, and costing about \$1.60 a bushel."

W. T. Hands, (Perth, Ont.): "We have not changed varieties of seed, but we are now sowing nothing but registered seed. We find we have betregistered seed. We find we have better results, and that it pays. Last spring we sold about 400 bushels of cats at \$1.36 a bushel, and 230 bushels of barley at \$1 and \$1.36 a bushel."
Whittiker Bros., (Williamsburg, Onl.): "The tests with orn have proven to us that it is cheapest to buy the best seed corn possible; it matters not what the price may be."

Chartes I with (Care 371), N \$1.51.

Chester H. Keith, (Corn Hill, N.B.): "I am now sowing the best of seed whereas I used to sow seed of inferior whereas I used to sow seed of inferior quality. This is one way the Commission of Conservation has helped, not only me, but a number of neighbours, in obtaining good seed grain."

Taylor Bros. (Antigonish, N.S.):
"We have been sowing selected seed
for the past eight or 10 years; on the
average our yields have been a hul60 per cent greater than they were before."

Glass vs. Cotton

REFERENCE to the use of cotton instead of glass for covering cold frames and hot beds, Dr. Andrews, or Regims, Sask, writes, "Glass has its uses. But many of our gardeners leave home in the morn-ing, which may be cloudy, clearing up ing, which may be cloudy, clearing up by nine o'clock and our hot suc is apt to raise the temperature too high. Cheesecolth quitted double by seving across every twelve inches is pre-ferable. It is like ventilated under-clothing, open but warm on account of imprisoned air.

"Hard cotton is of little use, or "there of the present the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the control of the control of the control of the con-trol of the cont

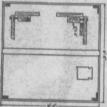
"Hard cotion is of little use, or rather of less use than one more open. We are simply using the same protection and means of vertilition which is maring the cotton window so satisfactory in some of the public schools, and in sleeping rooms during the winter. I hope many will try the new device. The plants are hardy, and stand transplanting well. The cost of cotton is so low that one can afford to have a large area of cold frames and hot bods.



Possibilities of the Hotbed

George Baldwin, York County, Ont.

at night. See that the frame is banked up to the top with more manure on the outside. As soon as the young plants appear, more air should be given so that they will not become spindly or damp off. Water only at noortime when absolutely necessary.



The Frame From Above.



Cross-section of Hotbed.

A cold frame is made in precisely A cold frame is made in precisely the same manner, except that no manure is used. It can be used for the
same purposes as a hotbed, but germination takes longer. Its principal
use is for hardening off plants that
have been raised in a hotbed or greenbeen before putting them out into the
been raised in a hotbed or greenbeen before putting them out into the
consense before putting them your hotbed
the early part of Man 24, which
is the date for planting out.

Seeds to Sow.

The next question is what seeds to

sow:
Three kinds of onions—Red, White,
and Yellow Southports.
Three kinds of tomatoes—Chalk's
Early Jewel, Earliana, and Beauty.

Two kinds of celery—Paris Golden and Rose Ribbed Paris. One kind of beets—Early Flat One k Egyptian.

Egyptian.
Two kinds of lettuce—Nonpariel
and Grand Rapids.
Two kinds of cabbage—Henderson's
Summer and Glory.
One kind of cauliflower—Snowball.
One kind of parsley—Curled variety.
One kind of cucumber—White Spine

or Long Green.

one kind of cucumber—white Spins or Long Green.

It will assist greetly to transplant the following two or three times in the cold frame before putting them out in the open-noinons, tomatoes, and cabbage. The others will do all right by bage. The others will do all right by bage. The others will do all right by he soil arons, diem out and stirring the soil arons, diem of the cattra work attachem. Outside of the exits work attachem. Outside of the exits work attachem on forists and superior to relying on florists and superior to relying the superior to relying the

Seeds with a Pedigree menn Money making Crops

THE first step to intensive farming is to use only tested seeds of the best quality, and of varieties especially bred for Canadian climatic conditions. No amount of care in cultivation will produce big yields from inferior seeds. It is now forty years since



were first supplied to Canadian farmers and gardeners. For nearly half a century, season after season, they have been producing money-making crops for those who use them. They have as houset producing hardy, healthy plants. McDonALD's Tested Seeds are of strong, pedigreed strains, especially selected for Canadian climatic conditions, and are subjected to rigid tests before being strong the producing the producing the strong test of the producing the strong test of the strong tests of the strong tests

Get bigger yields per acre by using McDONALD'S Tested Seeds

indreds of varieties of field, garden and flower seeds illustrated and scribed in McDorald's Seed Annual. 100 pages, full of valuable informa-a for the farmer or gardner. Write now for your copy, it is free.

KENNETH McDONALD & SONS, Limited



Dwarf Apples Not Profitable

THE culture of dwarf apples is to maintain dwarfness by removal of periodically boomed in various clon roots and to prevent weakening parts of the country, for both by suckers; and troubles due to shalone grounds and commercial or low-rooting habit, such as susceptionards; and a decade and a half ago, billiy to drouth, difficulty in giving when san jone scate first threatened, billiy to drouth, difficulty in giving when san look as though these dwarf trees offered one solution of this pest problem. The small size of true carifer than standards, nor have they despite, or even of half dwarfs, makes though the paraying a much simpler first ten veray; the fruit has not proved.

dwarfs, or even of half dwarfs, makes theorough sprawing a much simpler proposition that do the thirty or forty-foot giants of the old orehards.

To test the practicability of such Tot test the practicability of such three orchards of dwarfs, half-dwarfs, and standards intermingled, in three localities in the State, and has had them under test for ten years or more. The results show that "Dwarf apples are not commercially promising," as reads the title of Bulletin No. 406, in which tests are discussed.

cussed.

The objections are many: High first cost, since dwarf trees usually cost cost, since dwarf trees usually cost more per treat as atandards and it requires from four to nine times as reasonany trees for the same area; uncertainty of securing the desired dwarfing stocks; liability of dwarf dwarfing stocks; liability of dwarf srees to wister injury, or winter killing, to breaking off at the union or lo overturning by winds; extra labor lo overturning by winds; extra labor

earlier than standards, nor have they greatly excelled them in yield in the first ten years; the fruit has not proved on dwarfs than on standards; but the small size of the trees on dwarfing stocks makes it possible to grow more trees, and consequently more varieties on a given area, and the dwarf trees are more ornamental than standards,—points that make irees of this type useful and valuable to the amateur grower, but that are of no commercial advantage. As San Jose scale can be readily controlled that commercial advantage. As San Jose scale can be readily controlled that so we will be a supplied to the standards,—points that make trees is now of little favor of dwarf trees is now of little favor of dwarf trees in anything more than home-ground or garden use, the fruitgrower should study this bulletin with care.

A garden is an asset. In it we may find a healthful variation of good at a minimum of cost. The farm home, with a good garden attached, will be relatively free from siekness.





BUY DIRECT

Save the Middleman's Profit

Bend for our Pres 1918 Book, of "QUALITY LINE" Vehicles and Harness 22nd year of Selling DHEACT, though the Company of the Company of Selling DHEACT, choose Just the Own Catalogue will help you to lescribes and pictures many tarness you require septiating our method of Selling Direct and Prices, explains our method of Selling Direct and prices, explains our method of Selling Direct and the Company of the Com

International Carriage Co. Dept. "F" Brighton, Ont.

FARM AND DAIRY

AND RURAL HOME PUBLISHED EVERY THURSDAY



SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, \$1.00 a year. For all countries, except Canada and Great Britain, add 50c, for postage. ADVERTISING RATES, 12 cents a line \$7.4, \$1.63 an Inch an insertion. One page 43 inches, one column 12 inches. Copy received up to Satur' of preceding the following week's issue.

UNITED STATES REPRESENTATIVES STOCKWELL'S SPECIAL AGENCY Chicago Office—People's Gas Building. New York Office—Tribune Building.

CIRCULATION STATEMENT CIRCULATION STATEMENT
The paids subscriptions to Farm and Dairy exceed
\$15.00. The actual circulation of each issue, including
\$15.00. The actual circulation of each issue, including
\$15.00. The actual circulation of each issue, including
\$15.00 to 15.00 copies. No subscriptions are accepted
\$15.00 to 15.00 copies. No subscriptions are accepted
\$800 copies.
\$8

OUR GUARANTEE

OUR GUARANTEE We guarantee that every subscriber in this issue is reliable. We are able to do this because the advertising column of Farm and Dairy are as carefully every subscriber of the subscriber, who are subscriber of the subscriber, who are subscriber of the subscriber, who are sur friends, through the subscribers, who are sur friends, through the subscribers of the subscribers and subscribers of the subscribers of the subscribers and subscribers and subscribers of the subscribers and subscribers of the subscribers and subscribers of the subscribers and subscribers an

The Rural Publishing Company, Ltd. PETERBORO, ONT.

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and con-sider."—Bacon.

Enlist or Produce?

PROMENENT Eastern Ontario dairy farmer informed one of the editors of Farm and Dairy a few days ago that if he cannot soon secure efficient help, he will be under the necessity of selling off his whole herd of milch cows. This man farms on a large scale. He cannot begin to care for his own herd with his own unaided efforts and his helpers must be experienced men; greenhorns in the dairy would do more harm than good. These experienced men he finds hard to get. Enlistment has thinned their ranks. The conditions that apply in his section, we believe, apply generally in the dairying districts of Canada. A return of retired farmers to the land, as has been suggested recently, would help out, tut it would not be a complete remedy for the evils growing out of our recruiting system-or lack of system. In the Old Land the danger of unregulated rural recruiting, or drafting as it now is, has been recognized and military tribunals determine whether a man is of most use to his country, fighting or producing.

The first military tribunal was held at Kirkby Stephen, recently. The session lasted five hours. The courtroom was crowded with farmers, appealing against enlistment of shepherds, plowmen and herdsmen. Many farmers stated that if the men were drafted, they would be obliged to sell facir stock and abandon their farms. After a sovere examination, the majority of the farmers' helpers were held to be necessary to Westmoreland agriculture and exempted from military ser-

The actual drafting of young men for military. service is not yet seriously considered in Canada. but the tendency to point the finger of scorn at the young men of military age, working on the farm, as well as the call of patriotism, have led many to enlist whose real duty lies at home.

Some system is needed to govern such enlistments, and this phase of the recruiting problem should receive the earnest consideration of our government and some official pronouncement should be made on it before spring work starts on the farms. And in coming to their decision our law makers should not forget that the rural districts cannot be expected to contribute in proportion to their population as have the cities, even if it were determined that agricultural production for 1916 is not vitally important. Social conditions had largely drained the rural districts of young men long before the war started.

Are Farmers So Inefficient?

W HAT farming needs is "business efficiency." How often we have heard this statement. It has been, perhaps, the most popular theme alike of the form management expert and the white-vested financial magnates who hold forth following on seven-course dinners to other five-dollar-a-plate diners. How these after-dinner orators have berated the inefficiency and wastefulness of the poor average farmer! We, the objects of their invective—or commiseration—have been led to believe that all of the inefficiency on the American continent is to be found on the farms and that city business management was all above reproach.

But now comes Edward N. Hurley, vice-chairman of the United States Federal Trade Commission, with the other side of the story. Mr. Hurley tells us that in the United States there are 250, 000 business corporations (exclusive of banking, railroad and public ultility). One hundred thousand of these corporations make no profit whatever and 90,000 more make less than five thousand dollars a year. Twenty-seven of the large corporations in a certain line of trade have a net income of only \$300,000, which is only three and one-third per cent, on the capital stock.

The figures given by Mr. Hurley for the United States would probably apply in about the same ratio in Canada. If we may judge the efficiency of business management by results, therefore, it would seem that the business enterprises of the cities are not quite so well managed as our farms, and hereafter it will not be out of place. we presume, for farmers to deliver after-dinner talks on factory efficiency, better store management, and so on all along the line. If Mr. Hurley's figures are correct, the farmer has just as good a right to attempt instructing the business interests as the business interests have to extend free advice to the farmer.

Why the First May be Last

O NTARIO is proud of her place as the premier dairy province of the Dominion. Her output of dairy products for 1915 was much greater than that of any other two provinces taken together. The strong market and high yields have put her dairymen in the frame of mind and the financial position to enable her to retain her place at the head of the procession.

But there is a sense in which Ontario is at a disadvantage compared with the other provinces. The very extent of her dairy industry and the great number engaged in it make it far more difficult for her than for them to adopt advanced methods of dairy practice. The larger a body, the more difficult it is to move. Her dairy industry was fully established years ago, before the need of improved methods was as pressing as it is at the present time, and she doubtless adopted some practices that will have to be discarded. Alberta grading 95 per cent, and Saskatchewan grading 65 per cent. of the cream entering their factories have far eclipsed Ontario in this regard. But the reason is clear. They have only recently gone into the dairy business

extensively. Old and unsatisfactory methods had not become firmly established, and the extension of their dairy industry has been along the lines of the most approved methods.

To learn a new method is one thing; to unlearn an old one is another and far more difficult undertaking. Ontario will eventually grade her dairy products, but it will take her some time to make the necessary change in her way of doing things. That is one of the disadvantages of being the premier dairy province.

Cooperative Buying in Dundas

UNDAS county, Ontario, is testing the advantages of cooperative dealing in a very practical way. Last year eight farmers' clubs in that county purchased commodities cooperatively to the value of \$72,276.24. Among these commodities were seed corn, clover, and grass seed, whole grain, mill feeds, binder twine, coal oil, cement, and fruit. The estimated saving to the farmers through this method of purchase was \$3,476,90. Evidently the commercial feature of club activities is growing in Dundas as it must elsewhere. Cooperation in business matters is now recognized as of as much importance as cooperation for entertainment and education, which was the first object of the farmers' club.

There is just one danger on the horizon, and one of which farmers' clubs will do well to take cognizance. Secretaries of local clubs have told us that they can buy cheaper direct from the manufacturers or wholesalers than they can through the United Farmers' Cooperative Company, Ltd., the central organization of the province. This apparent advantage to the clubs through direct dealing in many cases is merely a part of a carefully laid plan to choke the whole cooperative movement. The business interests realize that a strong central organization would get beyond their control as the Grain Growers' Grain Company of the West has already done. If they can keep business away from the Central until it would go out of existence, it would be a comparatively simple matter to crush the clubs one by one.

There will always be some advantage in cooperative dealing through local clubs, but the greatest profits through cooperation will be reaped only when a big proportion of the business of these clubs is done through the central organization. When the Central gets the full patronage of local rlubs it will be able to get rates much lower than anything that will ever be quoted to a local.

Farm and Town United

(Rural Life.)

W HY should a farmer retire from the farm to a village home, when with much less expense and far greater satisfaction he can buy an automobile and take his family down cown in less time than it would require for them to walk from the upper end of Main Street to the town hall?

The automobile has brought the farmer living on the farm as near the town as is the retired farmer who has moved to the village, and shortened the distance between the farm and town to such an extent that the farmer's family can attend church, lectures, and theatres and enjoy all the social privileges of the town as readily as the family living three or four blocks from the village centre.

Any farmer who is so well situated financially that he can buy a home in town, can own an automobile, and with a good reliable car, distance from farm to town is no objection to country living. The automobile combines the pleasures of rural life with the conveniences of the town.

ty

hay ing the nur that our

comi these by the caref ture word very uses until peries

Cat

A _ these that v moistr quanti gnarle three

free c will e flowers

Potato Growing in New Brunswick

By J. B. Daggett, Secretary for Agriculture

By J. B. Daggett, Se

The potato industry in New Brunsrick has assumed large proporwhich has assumed large proporwhich has assumed large proporwhich has assumed large proporwhich has assumed large proportick has assumed large proportick has a sumed large proportick has a sumed large propormaterial tenders and potato diseases.

In the province his proposition of the soil,
forthliers and potato diseases.

In the province his proposition of the collaboration of the potatose his proportion of the proposition of the proposition of the proposition of the protocos raised are
grown with commercial fertilisers,
pure can be provinced to the protocos and the proposition of the protocos and the proposition of the province. It has been
confident to commercial fertilisers canfound that province. It has been
sections of the province. It has been
found that commercial fertilisers canfound that their land would
about require two thousand pounds instead of fifteen hundred pounds to the
acre.

A Potato figiation.

A Potato Retation.

A Potato Retation.

The following rotation is being adopted throughout the province: Pirst year, potatoes with commercial print year, seed down the property of the print year, seed down the property was present year on the province of the year, year, power year, now taking year, part of the year, and then breaking but one crop of hay and then breaking but one crop of hay and then breaking but one year, and then breaking but one year, and year, year, however, is the average length of rotation among our best farmers.

the average longus of rotation among our best farmers.

While there are a number of varieties of potatoes being raised in New Brunswick, the two favorites are Irish Cobbler for the early crop and Green Mountain for the late.

We have the usual potato diseases were accommon to all countries, but we are learning that the vast majority of these may be successfully combatted by the proper treatment of seed, by the proper treatment of seed, by the proper treatment of seed, but the seed of the seed

radishes, may be sown and harvested ere they interfere with the main crop. Cauliflowers do well on a heavy soil made porous by generous aplications

Cauliflowers do well on a heavy soil made porous by generous applications of stable manure.

Celery requires even more holisture than the cauliflowers, therefore plant it in trenches in either single or double rows. Make your trench two feet wide, and at least nine inches deep. Carefully fork the bottom of the trench, at the same time working. In a barrow load of well rotted stable manure to every 50 feet. Plant the rows one foot apart, and allow one foot between the plants in the rows. If your row is single, the trench as the plane only one foot in width. So the plane only one foot in width. As the plane only one foot in width. As the plane only one foot in width. As the plane only one foot in width. So foot the width of the plane only one foot in width. So foot in width.

Horticulture in Alberta Harcourt, B.S.A., Deputy Minister of Agriculture.

A LIBERTA has no orchards or vineyards, or fruit plantations—and they are so full of potentialities that no one can forstell the great things that may come out of these noscibilities.

possibilities. The wid gooseberry, currant and raspherry grow profusely wherever there is shell; while they also are there is shell; while they will also are they be they are the they are they are they the readily but the fruit is flat tast-ing and not held in very high esteem. When are the held in very high esteem. We have been a support of the support o

the halthful use of the lordeaux mix ture. I would like to emphasize the word "faithful" as, in my observations, very many of our farmers are not faithful in the use of this excellent article. When the farmer persistently uses this mixture from the time the place of the excellent article. When the farmer persistently uses this mixture from the time the unit was the property of the farmer of the farmer of the subers are invariably much better keepers in slorage.

Cauliflower and Celery Culture J. H. Moore, Lincoln Co, Ont. L. AST year perhaps you were discouraged with your cauliflowers. Many people fall with these because they do not realise that very few plants require as much mosture for their development. Its open the control of the control of



for Your Silo

Settle the silo question now before the rush of spring and summer work comes on. You need a silo. Decide now to have one for next winter. It will pay you. Silage increases milk flow at least 20% and reduces feed cost 15 to 20%. It is the best investment you can make.

IDEAL GREEN

insure better silage and cost less for the service they give than any other silo. Do not make the mistake of buying a "cheap" silo, or "cheap" silo material. You cannot save money that way. Silos that are offered to you with emphasis on their low price are expensive and wasterful. They do not preserve the silage as well and do brings greater returns than money invested in any other. Ask for canding greater returns than money invested in any other. Ask for canding the siloge as the siloge and all the facts that prove that you get by far the most for your money in the ideal.

DE LAVAL DAIRY SUPPLY CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA Sole distributors in Canada of the famous De Laval Cream Separators and Alpha Gas Engines. Catalogues mailed upon request. PETERBORO WINNIPEG



One cent a month for Vigor.

A small price to pay for the health that makes hens lay plenty of eggs and eggs strong in fertility. To get vigor in the breeding season, use Pratts Poultry Regulator.

A few cents' worth of Pratts—a cent a month per bird—tones up the flock; helps the birds digest their food and turn it into eggs that hatch. Chicks from such hens have lots of vitality.

Clean up the pens regularly with PRATTS DISINFECTANT.

Look out for Roup. Be ready with a package of Pratts Roup Remedy to stamp out the first trace of this disease. Your dealer can supply you with a Pratt Remedy for practically every complaint.

Pratts, Poultry Regulator ackages and larger money-sizes up to 25 lb. palis, \$2.50. Soid at all dealers on our Money Back Charantes. 68 L PRATT FOOD CO. PREE of Canada Limit TORONTO

(20)





THERE are many successful short cuts in work and living. but none in character building.

Pigs is Pigs (Continued from last week.)

HEV no box," said Flannery them? Do you take this express coldly. "I hev a bill against office for a menagerie. Answer Misther John C. Morehouse quick." for two dollars and twinty-foive cints for kebbage aten by his Dago pigs. Wud you wish to pay it?"
"Pay—cabbages—!" gasped Mr.

"Pay—cabbages—!" gasped Mr. Morehuse. "Do you mean to say that two little guinea-pigs—" "Eight!" said Flannery. "Paps an' mamma an' the six childer—eight!" For answer, Mr. Morehouse slammed the door in Flannery's face. Flannery looked at the door re-proachfully. "I take ut the consignly don't want to pay for thin kebbages," he said. "It I know signs bages," he he consignly re-

fuses to pay for wan dang kebbage leaf, an' be hanged to me!

Mr. Morgan, the head of the Tariff Department, con-sulted the President of the Interurban Express Co. regarding guinea-pigs, as to whether they were pigs or not pigs. The president was whicher they were the soft piece of the soft pie

"Yes," agreed Morgan, "I look at it that way, too. A thing that can come under two rates is naturally due to be classed as the higher. But are guinea-pigs, pigs? Aren't they rabbits?"

"Come to think of it," said the president, "I believe they are more like rabbits. Sort of half-way station between plg and rabbit. I think the question is this, are guines pigs of the domestic pig family? I'll ask Professor Gordon. He is an authority on such things. Leave the papers with me."

ers with me."
The president put the papers or his desk and wrote a letter to
Professor Gordon. Unfortunately, the
Professor was in South America col-Professor was in South America coi-lecting zoological specimens, and the letter was forwar od to him by his wife. As the Professor was in the highest Andes, while no white man had ever penetrated, the letter was many months in reaching him. The president forgot the guinea-pigs. Mor-gan forgot them, Mr. Morehouse for-got them, but Flannery did not. Onehalf of his time he gave to the duties of his agency; the other half was devoted to the guinea-pigs. Long before Professor Gordon received the presi-dent's letter, Morgan received one from Flannery.

"About them Dago pigs," it said,
"what shall I do? They are great in
family life, no race suicide for them;
they are thirty-two now. Shall I sell

genius Sus of the family Suidae. He remarked that they were prolific and multiplied rapidly.

"They are not pigs," said the president, decidedly, to Morgan. "The twenty five cent rate applies."

twenty-five cent rate applies."

Morgan made the proper hotation
on the papers that had accumulated
in File A6734, and turned them over
to the Audit Department. The Audit
Department took some time to look
the natter up, and after the usual delay wrote Plannery that, as be has
on hand one handred and sixty guineanies, the nometry of consignee, be oli manti one nandred and sixy guinea-pigs, the property of consignee, he should deliver them and collect charges at the rate of twenty-five cents each.

Flannery spent a day herding his charges through a narrow opening in their cages so that he might count

them
"Audit Dept.," he wrote, when he
had finished the count, "you are way
off, tiere may be was one hundred
and sixty Dago pigs once, but wake
up, don't be a back number. I've got
eight bundred, now aball I collect for
eight hundred or what? How about
sixty-tour dollars I paid out for cabbages?"

It required a great many letters back and forth before the Audit De-partment was able to understand why anorgan reaches for a telegraph blank, and wrote: "Agent, Westcote.—Don't sell pigs." He then wrote Flannery a letter calling his attention to the fact that "the" pigs were not the property of the company, but were mergly being the error had been made of billing one hundred and sixty instead of eight hundred, and still more time for it to get the meaning of the "cabbages."

"the ompany, but were merely being held during a settlement of a dispute regarding rates. He advised Flannery to take the best possible care of them. Flannery was crowded into a few feet at the extreme front of the office. feet at the extreme front of the office.
The pigs had all the rest of the room
and two boys were employed constantly attending to them. The day afterFlannery had counted the guine-pigs
there were eight more added to his Flannery, letter in hand, looked at the pigs and sighed. The drygoods (129° had become too small. He boarded up twenty feet of the rear of

Morehouse home. At the gate he stopped suddenly. The house stared at him with vacant eyes. The windows him with vacant eyes. The windows were bare of curtains, and he could see into empty rooms. A sign on the porch said, "To Let." Mr. Morchouse had moved! Flannery ran all the way back to the express office. Sixty-nine guineapigs had been born during his guinea-pigs had been born during his absence. He ran out again and made feverish enquiries in the village. Mr. Morehouse had not only moved, but he had left Westcote. Flannery re-turned to the express office and found that two hundred and six guinea-pigs had entered the world since he left it. He wrote a telegram to the Audit

"Can't collect fifty cents for two Dago pigs; consignee has left town; address unknown; what shall I do?

The telegram was handed to one of the clerks in the Audit Department, and he read it and laughed. "Flannery must be crazy. He ought to know that the thing to do is to re-

turn the consignment here," said the clerk. He telegraphed Flannery to clerk. He telegraphed Flannery to send the pigs to the main office of the company at Franklin.

When Flannery received the tele-gram he set to work. The six boys

prain ne set over the set of the he had engaged to help him also set to work. They worked with the haste

Do Euro the 1

Arms

Mille is gr

great their bette of A

the g the v devel this v as St 3: 1 (

other

4, Ma return troubl

(Matt.

war in the ti

may h

rather

this w

Jerusa

resum

and u

Jews While

Jerusa will as

will al Israel to 16). battle

In of th

office seven hundred and four more pigs than when they began packing them. "Stop sending pigs. Warehouse full," came a telegram to Fiannery, He stopped packing only long, enough to wire back, 'Can't stop," and kept on sending them. On the next trail up from Franklesser, the packing to give the packing to give the packing the pac pany's inspectors. He had instructions to stop the stream of guinea-pigs at all hazards. As his train drew up at Westcote station he saw a cattle car standing on the express company's siding. When he reached the express office he saw the express wagon backed up to the door. Six boys were carrying bushel baskets full of guineapigs from the office and dumping them into the wagon. Inside the room wagon. Inside the room Flannery, with his coat and vest off, was shovelling guinea-pigs into bushel bas-kets with a coal scoop. He was winding up the guineapig episode.

He looked up at the in-

spector with a snort of anger.

"Wau wagouload more an'. Fill be quit of thim, an' never will ye catch Plannery wid no more foreign pies on his hands. No, sur! They near was the death o' me. Nixt toims I'll was the death o' me. Nixt toims I'll was a pies of what they nationality

is domestic pets-an' go at the low-

Morgan returned it, asking for explanation. Plannery replied:

"There be now one hundred and
into, the adult Department sent another letter, but Flannery was too
busy to open it. They wrote another
want me to go or gray wired.

"Sell no pigs," Morgan wired.
Not long after this the president of
the express company received a letter
from Professor Gordon. It was a long
and scholarly letter, but the point was
that the guineaply was the Cavia
aparoea while the common pig was the



Answer

Morgan reached for a telegraph

How Do Your Chrysanthemums Compare with This One? This novel "Mum" plant was shown at an exhibition at Cleveland, Ohio, a few months ago, where it won a \$250 prize. It had over 1,500 blooms, was 15 feet in diameter and aix feet high.

It was said to be the second largest in the world.

the express office to make a large and airy home for them, and went about his business. He worked with fever-ish intensity when out on his rounds, for the pigs required attention and took up most of his time. Some months later, in desperation, he seized a sheet of paper and wrote "160" across it and mailed it to Morgan. Morgan returned it, asking for explanation. Flannery replied: "There be now one hundred and sixty of them Dago pigs, for heaven's sake let me sell off some, do you want. me to go cray? what!" "Sell no pigs," Morgan wired. Not long after this the president of the express company received a letter. months later, in desperation, he seized

drove, and by the time the Audit Department gave him authority to col-lect for eight hundred, Flannery had given up all attempts to attend to the receipts of the delivery of goods. He was hastily building galleries around the express office, tier above tier. He had four thousand and sixty-four guinea-pigs to care for. More

916.

stop-ed at idows could in the house

way

g his

found a-pigs Audft

own;

part-

ought

f the

boys set aste

d all

hem

pers lent-

the

had

and pigs, ress and

ram pped h to

and

ank

had the

ress

the

He

nea-

in

lly,

n't 88

Mr.

Scriptural Prophecies Explained

"Despise not prophesyings."—

1 Thess. 5; 20.

Thousands of earnest Christians Thousands of earnest Christians believe to dispension of the specific of the matter of

WHAT IS ARMAGEDDON?

Do you believe the present war in Europe is the battle of Armageddon or the beginning of it? If not, what is the Armageddon?

Burope is the battle of Armageddon or the beginning of tit? If not, what is the Armageddon?

In our orthodor Protestant denominations there are two great divisions of the post Millennialists and the post Millennialists and the post of the post of

Mott, the missionary leader, L. W. Munhall, Chas. G. Trumbull (of the Sunday School Times), and many

Some Early "Fly Talk" With the Household Editor,

With the Household Editor.

I' may sealed to indulge in "fly talk,"
sealed to indulge in "fly talk,"
the sealed to indulge in "fly talk,"
the subject is of great importance; the subject is of great indulged in great indulged in great in hat season's fies, stretching his legs in the sunshine and apparently enjoying it quite as must be sourcelves. To our mind, the fir one of the greatest peats around the farm home. Just as ourcelves, Just as ourcely as sume, Just as ourcely as sume, around, we are equally sure comes around, we are equally sure the fies in the house. Without these files are in evidence in content of the sum of t

one, depends largely on our efforts to keep the peet under control.

It is really amazing where the files come from that we see in some homes. We can call to mind at the present moment, homes m which we have been visiting, where the food on the daining table would be actually with files,—in the milk pitcher, in the wind on every article of food that was do nevery article of food that was considerable window were considerable by best window were considerable by their seeds of the control of the co much wonder! Screen doors and windows were conspicuous by their absence, especially around the absence, especially aroundithe kitchen, where most needed.

kitchen, where most needed.

Another aggravating feature around
these homes was, that one was continnally finding dead files all over the
house—on the floor, the window
ledges, the pantry shelves, the tables
and so forth, (for we will give these
people credit for trying to kill the
files after they got into the house.)
Polison fly pads were used and they
do this work very wed, as can be do this work very well, as can be testified by the number of files one can sweep out of a room in a day after trying this method of destruc-

atter trying this method of destruction.

While the use of poison by pade is quite common, we would like to emphasize most strongly the danger, in using these poison by killers. Lass. year we published some statistics, gathered by the United States, in research of the state of

We trust that all of our women.

We trust that all of our women was and summer to have as few files as possible around the home by having screens on all doors and windows and by keeping everything as clean as clean as on the house, so that files may not be the house, so that files may not be the house, so that files may not be all the files that the stocky files of the files that a number of things to commend as a number of things all over the sweeping up of dead file all over the sweeping up of dead files all over the sweeping up the sweeping up the sweeping up of dead files all over the sweeping up the sw

trapped, the paper may be put in the store and burned,—but the greatest blessing of all is, that it does way with any danger of poisoning are little child who toddles around and is not old enough to realize the danger contained in these poison fly pads that may be within their reach

The Upward Look

Travel Series-No. 22 Our Canadian Exhibit: Our Canadian Ideals.

E hath brought us into this place, and hath given us this land."—Deut. 26: 9.

Long before I attended the Panama

Loue before I attended the Panama Exposition, several people told me our own Canadian exhibit was the best of those of other countries, or states. As my informants were Canadians, naturally I smiled a little to myself and thought them prejudiced. But when I reached the States, without exhibit the state of the control of the same to the same

has truth of these opinions. As soon as I could, with much curiosity, interest and eagerness, I made my way to the much-talked of building. One enthusiastic American even said it was not only the best inside, but outside, as well. As soon as I but outside, as well. As soon as I all the building of a greed. Externally the building of a greed Externally the building gracefulness and diratily. that, combi

and dignity.

Within, a great panorumic view extended completely around the building illustrating the vast industries
and productions of our wonderful into
and productions of our wonderful into
there were retul ranches in blossom
and in fruit; there were vast prairies,
with tail elevators, and rapidly moving
trains: many were the fur-bearing animals, even to five beavers. There
were also many artistic seed-pictures,
depicting the resources of our land,
so artistic and finished, that it was
difficult to realize they were not done
with paint and brush.

That was a proud day. All that ex-

difficult to realise they were not done
with point and brush.

That was a proud day. All that exalibit promised much for the futurematerial greatness of this great curtry, our country. But material greatmess will avail our nation but little
uniess, with it comes cleanlness. To realize our high deals for our landsuded the time, thought, gifts money,
needs the time, thought, gifts money,
asked the time, thought, gifts money,
asked the time, thought, gifts money,
asked the time, thought, gifts money,
the seeking the stream of the countries is the social evil, from which our
own fair Ganada is not exempt. There
is a very wrone idea that such matters
is a very wrone idea that such matters
is a very wrone idea that such matters
and written about, so cheed against
and written about, so cheed against
and written about, so cheed against
on medical expert maintains in
point of prevalence the diseases resulting from this social evil, frow that fully
affected to more or less degree. The
saddest part of all is that the innocentess may be contaminated. This
disease should be foared like a plague. saddest part of all is that the inno-cent ones may be contaminated. This disease should be feared like a plague. If leaves in its wake sterility, insan-ity, paralysis, the blinded eyes of bables, the twisted limbs of deformed bables, the twisted limbs of deformed paralysis and the sterility of the sterility of the mention of the sterility of the sterility of the This is expected.

mental decay."

This is one of the terrible evils that each must do the utmost in his power to 3ght against, to make our great country what it should be, this land of ours which God has so richly endowed.—I. H. N.

Reduce Your Roofing Costs, Protect Your Buildings From Fire, Lightning and Weather You accomplish all these results by using our heavily zinc coated

"Eastlake Metallic Shingles

They give longer service than any other roofing. Cost less to lay. They give longer service than any other roofing. Cost less to lay. Are rust-proof and do not require painting. Those isid 28 years ago are still giving good service. Send for free book that shown how "Essatlake" shingles make your buildings lightning fire, and weather-proof and why they cost less per year than any other roofing.

We Manufacture a complete line of Shoot Metal Building Material THE METALLIC ROOFING CO., Limited



MUSIC TAUGHT FREE

y the Oldest and Most Reliable School
Music in America-Established 1895.
lane, Organ, Violin, Mandolin, Guitar,
Banjo, Etc.

See can Mad Thusis Eds Ha quidb-egimers or advanced players. One les-my weekly. Illustrations make every-ling plain. Only expense about 2c per y le cover cout of postage and music edd. Write for Free booklet, which exeaf of Music, 76 Lukoslife Bu'lding, Chicago

GASOLINE ENGINES

11/2 to 50 H.P. Stationary Mounted and Traction



WINDMILLS

Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc. GOOLD, SHAPLEY & MUIR CO., LTD. Brantford Winnipeg Regina Calgary







Success With Sweet Peas Arthur Waller, Northumberland, Co., Ont.

Off.

GROW sweet peas as follows: As soon as the ground is fit in the soon as the ground is fit in the area of the soon as the ground in the first said play out a furrow about nine inches deep. I then put in some well-votted manure, sprinkle it with some fine mould, and sow the peas, covering them with about two inches of fine sarth. This is pressed down firmly.

As soon as they begin to grow, I keep the ground well cultivated. I hill them up till the ground is level again.

The main point about growing sweet peas is the watering. All through the growing period I give them plenty of water.

The space between the rows is used for lettuce, spinsch and radish. They are done by the time the peas begin to climb. I then spread lawn clippings between the rows. This helps to keep the ground moist.

Light in the Country Home

IN Farm and Dairy and other farm papers, advertisements of portable lamps and lanterns have been appearing for the last few months. These lamp advertisers are doing a good work for the 'rural community, and I would like to add a word to help them along, not so much to benefit them along, not so much to benefit them along, not so much to benefit them and the control of the contro

and time class includes the most of us, these portable lamps, such as are advertised in Farm and Dalry, are O.K. The control of the recent additions to the household equipment at Rosebank Farm, as Mr. Glendinning calls his home, was an up-to-date mantle lamp. Mr. Glendinning was so pleased with the strong, clear light given by this mantle lamp, that he insisted on lighting one of their old coal oil lamps, such as are still found in the majority of farm houses, and of setting them side by side. First he extinguished the mantle lamp, and although there was coal oil lamp, the room seemed dark by comparison. Then the mantle lamp was lighted again and the old-fashioned lamp extinguished. Its light was not missed.

A few weeks ago I became acquainted with a new stol or portable lamp. Valking along a dark country road on one of my infrequent of the old home, I was supplied that to the old home, I was supplied that to the old home, I was supplied that the old have believed that the old have believed that the old have believed that the old have been deady insteady instead of yellow and flickering. Next day I learned that a brother of the woman in that house was a dealer in gazoline lamps in the United States, and he had sent one across to his sister. This lamp has no chimney, has a mantle burner, and gives a clear, strong light, estimated at between 300 and 400 candle power—a much better light than the ejectric lighting of the average duty home.

tween 300 and 400 candle power—a much better light than the electric lighting of the average city home. I don't know which of these two styles of portable lamp is the best. Both, however, are good and cheap, considering the light that they make considering the light that they make boon to schole have. They are a boon to schole the same that they must study at night, to the old folks whose sight is falling them, and folks who, like myself, ore in their prime, also appreciate a good light of a winter's evening.—F. E. E.

Start Begonias Now B. C. Tillett, Wentworth Co., Ont.

B. C. Tillett, Wentwerth Ce., Ont.

Some of the finest begoniae and if
missed cheaply from seed, and if
produce flowers in beceause it will
produce flowers in beceause it will
produce flowers in beceause it will
produce flowers in the seed of the formation of the seed of the formation of the fo

Cover the boxes with glass to check evaporation. The boxes should be produced under glass. But the time to germinate, but watering about on operminate, but watering about not perminate, but watering about the necessary until the substitution of t

Simple Sprays for House Plants John Gall, Peel Co., Ont.

Tills necessity of spraying to keep down insect peats in connection with an insect peats in connection with an insect peat in connection with a peak of the connection with a peak of the content of the more unnatural conditions of its surroundings, such as a dry atmosphera produced by artificial heat and lighting, or perhaps an impure atmosphere produced by gas fumes from stoves or gas jets. The most frequent insect peat of house plants is the aphis, commonly called green plant louse, commonly called green plant louse, commonly called green plant louse commonly called green plant louse from the plants of the peak of the plants of the peak of the plants of the plants

is a woncerrui cleaner of foliage. It is a good idea to spray frequently with tepid water under pressure as a preventative against insect peets. The spraying or springing of plants bounds be a distinct and separate to the spraying or springing of plants bounds be a distinct and separate from the spraying are spraying, are spraying, are roots and sparying, are the proots and sparying, are the proots and sparying, are the plants are soddened with too much water or perhaps missed altogether. Water the plants at the roots as required first, then do the spraying after. I have seen hatches of small plants and many fine specimen plants and speci

the plant, is better than a heavy application only partially applied.

If the foliage of plants in bloom has
to be sprayed, it is best to spray from
underneath rather than over the top.
The moisture will then reach the
part of the foliage where insect pests
are usually found, and it will not injure the blooms so much as overhead
spraying. An angle nosale on the
ayringe that will give an up-cast
spray is the best for this purpose.

Filling for cake: Grated rind and juice of one lemon, 1 egg, 1 cup of sugar. Steam over boiling water until thick. Stir while ateaming, then spread the layers.

BEC. e e de farm sentirely entry. 'ing fea this ca convent the ber for the

house, the livi

the out

room, no in halls chairs a sin a wai where t time let zero air used as space gi It nes limitatio it neces either v badly sh

Confor to and D with and will to for \$2

Farm

n be d if will The with and

The

not

and

ts

ec-ral ent ith ur-

re

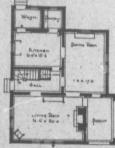
se.

as

ne



A House for Town or Country



-GROUND FLOOR-

good size and shape, and each one has one or more closets.

Attractively decorated and furnished, it will prove to be one of the most convenient, comfortable and at-

tractive homes imaginable, while the exterior of it gives an impression of homelikeness and coziness which it is the peculiar privilege of the moderate-sized house to impart.

Architect's Description.

Are Ritect's Description.

This house is one that is not too pectentions, but which can be made to fit most families. It is 28 feet by 32 the control of the

winter sun will enter both the living room and the drining room and the ma-jority of the bedrooms, and if the site selected for the building will not per-mit of this, reverse the plan to suit. ' Build the exterior of shingles laid alternate courses 19 inches and 2 in-ches to the weather, and shingle the roof in the ordinary way. Fill in the half-timber work on the gables with lath and plaster, left very rough. The chimney can have a cement cap or can be finished with brick. Stinn the walls a deen vide radies become can be finished with brick. Stain the walls a deep, rich, ruddy brown, and the roof a soft French green, and trim the woodwork in did vory. The roof may be of shingle, metal or asbestos. The exterior may be of stucco finish and wallboard may be substituted for plaster on the interior if desired. Make the cellings about 8 feet to 9 feet, and don'ts on any account leave out. Make the ceings about 8 feet to 7 reex, and don't, on any account, leave out the fireplace. Use a good quality hot air furnace with generous-sized pipes, or a hot water or steam heating system, which are better still. The cost will be from \$3,000 to \$3,300.

This estimate of over will be considered.

will be from \$3,000 to \$3,200. This estimate of cost will be considerably reduced should the builder decide to do his own teaming, excavate his own cellar, and perhaps help with the work. It is a well known fact, for these reasons, that houses are built more cheaply in country than in city.



(22)

Save \$100 When You Buy a Piano And Get

"CANADA'S BIGGEST

PIANO VALUE" Write Dept. 21 for our handsome Art Catalogue "P" and get full particulars of our highest-grade, ten-year guaranteed plano selling for \$100 less than any first-class plano made. Do it now!

The Sherlock-Manning Piano Co.

London, Canada. (No street address necessary)



SPRAY

No Burning, Clean Foliage, Fine Bloom and Finish

Mr. C. W. Gurney, of Paris, Ontario, says that with Soluble Sulphur there is no burning clean foliage, and fruit that hangs well and grows to large size. He states that like other sprays it must be applied in strict accordance to directions to avoid burning, but so applied it gives the best results.

NIAGARA SOLUBLE SULPHUR

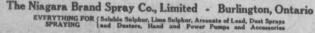
comes to you in powder form. It is easy to mix, sticks like paint, and does not clog the nozzles of sprayers.

Niagara Soluble Sulphur controls scale, apols and fungus better than Lime-Sulphur.

It costs no more than Lime-Sulphur, and the freight charges are

You handle a 100 lb. tin from your station, instead of a 500 lb. barrel. With Niagara Soluble Sulphur there is no leakage and loss. It does better work than Lime-Sulphur, and does it quicker.

Wherever Fruit Excels, Niagara Spray is Used Write for further information. Ask for our Bulletin No. 4.



Bao Ra

-DED ROOM FLOOR

WORKING DRAWINGS, \$2.00.

Complete working drawings for the construction of Farm and Dairy House No. 4, together with complete bill of materials and instructions for building, will be walled to any address for \$2.00.

Farm Building Dept., Farm and Dairy, Peterboro, Ont.

Fire Notice RENNIE'S

RENNIE'S SEEDS

TORONTO, CA NAD A

Your Farm Home Can Easily Have One of These Systems

All the comforts and conveniences of a modern bath-room! Plenty of running hot and cold water in the kitchen! Water in the bara and outbuildings! Running water always ready for every farm need—this is all made easily possible for YOU through the

Empire Supply System



Outfit Consits of: e enamel bathtub, closet tank, lavatory, with fit-hot water boiler for kit-range, pneumatic pressure te tank and system, all pip-and fixtures necessary, of outfit complets

\$225

Empire M.I. Co. EAST LONDON, ONT.

You'll Find the Advertisers in FARM AND DAIRY are reliable. They are where you saw the Ad. When writing them don't forget to tell them you saw the Ad. In FARM AND DAIRY.



A Glimpse of Coming Spring Style Features



If it is

tions. pressed and a r everyth

I know Stick t there a play the everyor When immedi have be the lar These f paper a no othe

Let table or nuts, re

Pla

1916

In Honor of St. Patrick By Marion Dallas.

sayS your Irish full of gladness, Like the gleam of the sun's mellow ray?

If it is, my dear, there are two of us That are glad this Saint Patrick's Day."

This month, the day on which we This month, the day on which we may most easily plan to entertain our friends is St. Patrick's. We may celebrate on that day whether we are Irish or not, for no day in all the year lends itself so readily to wit and humor and wholesome fun as does the 17th of March

Green' of course is supposed to be color of the old Emerald Isle, so this is the color used for all decora-tions. The wise hostess will have on hand a supply of last year's ferns, pressed, and these with a few flowers and a roll of green crepe paper makes everything look pretty and green.

Capturing the Colors.

As for games, one of the liveliest I know of is "Capturing the Colors." Stick up small Irish flags here and there about the room. Have someone play the piano and start all the guests marching in a circle, clapping hands. When the music breaks off suddenly, When the music breaks off suddenly, everyone must rush to capture a flag. When the music begins again, they immediately resume the march. This should continue until all the flags bave been captured. The one holding the largest number wins the game. These flags may be made of green paper and pasted on to little sticks if no other flags are available.

Potato Animals.

Let everybody gather around the ble on which has been placed peanuts, raisins, prunes, or other dried

fruit, with a bunch of wooden tooth-picks and a paper of wire hairpins. Each player receives a potato, out of which he must fashion and fruit or gobilin, using the peanuts and fruit or imbs, tails, and so on, according to his own design. At the end of a half hour the animals should be set out in array, and judges appointed to decide which is the best production.

Pin the Shamrock on Paddy's Hat.

Have someone draw an Irishman on a square of white muslin. Tack a square of white muslin. Tack the square up in the open doorway. Blind-fold the guests in turn, giving each a' stlk shamrock and instructing them to pin it on to Paddy's hat. The one coming nearest to it may be rewarded by some simple Irish novelty,

Matching Greens

Matching Greens.
For this game secure six "samples" of different shades of green cloth or silk, and two good-sized squares of cardboard. Cut each sample in half, pasting one half on one square of cardboard and the remaining half on the other square. Mark one set of samples with numbers, the other with latter, labeling care, what the two samples with numbers, the other with letters, taking care that the two pleces of the one shade do not cor-respond. To begin the game, one square is hung up at one side of the square is nung up at one side of the room, the other on the wall opposite. Paper and pencils are distributed, and each player is asked to indicate which pieces of material match, by writing down the number and letter. Thus: A-I, B-2, and so on.

Irish Celebrities.

First Celebrities.

A pleasant diversion would be a contest of famous sons and daughters of Erin. Write on a shamrock card fox-every guest the name of some celebrity. Jumble up the letters, for instance, O.H.I.T.L.O.S.M.D., leaving a space opposite for the correct arrange-



A Youthful Poultry Fancier.

ment. After guesting the name, write it down in the correct way. Partners might be found in this way. On one card have the jumble of letters, and on another have the proper name

A Purring Contest.

But not everyone will be able to en-tertain on this day, so for those who wish some other ideas we suggest using the "pussy willow," which apusing the "pussy willow," which ap-pears about the last of March. The in-vitations might be decorated with "pussy willows," and the rooms of the house could be artistically trimmed

with the branches.

For amusement, have cards distributed with the following contest written on them. Each word has the prefix "Pur.

1. Pur and place or stead.

2. Pur and part of the body below

the ribs.

Pur and moved rapidly in the air.

Pur and mien or bearing.

Pur and to take an attitude.

5. Pur and to take an attitude.
6. Pur and a judicial action for the recovery of the right.
7. Pur and range of vision.
8. Pur and short for Silas.

Pur and to run swiftly.
Pur and a screen or shutter The answers are: 1, Purlieu; 2, Purlioi; 3, Purfiew; 4, Purport; 5, Purpose; 6, Pursuit; 7, Purview; 8, Pursy; 9, Purchase; 10, Purblind.

A Slight Difference

RACIE: "Oh Mr. Nocoyne, how lovely of you to bring me these beautiful roses! How sweet they are, and how fresh! I do believe theres is a little dew on them yet."

Nocoyne: "W-well, yes there is; but "I'll pay to-morrow."

A Cautious Owner

A PENNSYLVANIA farmer was the owner of a good Alderney cow. A stranger, having admired the animal, asked the farmer, "What will you take for your cow." The farmer scratched his head for a moment and then said, 'Look a-here a moment and then said, 'Look a-here a helind by the railroad?"—The Argonaut.

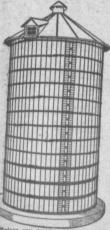
A Versatile Cow

THE Toadville Tidings advertises a cow for sale as follows:

"For sale — A full-blooded cow, giving milk, also three tons of hay, a wheelbarrow, a gindstone, two stoves, a scythe and a democrat wagon."



"I have the best silo in my district . . . without it I could not have fed my stock this win-



Before you decide on what silo to build read our 1916 catalogue describing fully the Premier "Perfect" Silo and explaining why it gives better service and lasts longer than any other silo. Ask for catalogue "D"; by mail on request.

The Premier Cream Separator Co. TORONTO, Ont.

EGGS, BUTTER Live Poultry

Bill your shipments to us. Advise us by mail and we will attend to the Egg Cases and Poultry Coops sup-

Wm. DAVIES Co. Established 1854. TORONTO, ONT.

CREAM

WE WANT YOURS
We pay express and furnish cans
Profitable Prices Promptly Paid BELLEVILLE CREAMERY LTD.

Peck, Kerr & McElderry

Barristers, Solicitors, etc. 415 Water St., Peterborough E. A. Peck F. D. Kerr V. J. McElderry

A Good Dairy Farm --- and Why Dairy Cows and Crop Rotation Account for Productive Meadows

44 Y GU should visit Watson Bros., again, and now have a pure-bred Holaton and Dairy section," a friend in The cream goes to the creamery cane of the most productive farms around here, and their meadows always look fine."

The latter part of the remark gave.

ways look fine."

The laster part of the remark gave me the idea that Watson Bros. must be largely hay farmers. Hay farmers in Quebec usually grow little else than hay, and their meadows, as I have seen them, are usually anything but seen them, are usually anything but fine. I wondered as I journeyed towards Dunham if I was to find an extra fertile soil or the intelligent use of commercial fertiliers as the exarra fortile soil or the intelligent use arranged in the control of the control o brief description.

brief description.

In all, there are 300 acres run by the two brothers, of which only 76 or 80 acres are workable. There is much stone in the land and a large part of the farm is rough. The unworkable sections, however, are largely covered sections, bowever, are largely covered with sugar bush, which is very far from being unproductive. Last year, one of the brothers informed me, they launed 1.800 trees. from which they tapped 1,400 trees, from which they made 6,000 pounds of maple sugar, putting it all up in two-ounce cakes, and doing the work themselves. From further inquiries in the same district I found that the sugar bush is an appreciated source of revenue, and de-mands attention only when other farm work is not pressing.
Good Meadows-and Why

"Yes, our meadows are good," re-marked one of the brothers, "but we marked one of the brothers, "but we think that is because of the way we look after them. Last year you wouldn't have thought we have raised anything at all, as we without rain from the middle of April to July, but we had fair crops of hay, nevertheless. The explanation l'es in this! We follow a rotation of crops in this! We follow a rotation of crops and ralas to break up the land swery. in this! We follow a rotation of crops and plan to break up the land every three or four years. We milk about 34 cows, keep about 50 to 60 head of stock altogether, feed practically everything grown on the farm in our company have and heave have lots of own barns, and hence have lots of manure for the workable section of our farm. One year, for instance, we grew 4,000 bushels of grain."

At the time of my visit, Watson, Bros. were preparing to plant corn, of which they usually have 11 acres. This poes into an immense concrete silo, 40x16 feet. With the exception of a light dressing of manure for wheat, all the rest of it goes on the wheat, all the rest of 11 goes on the corn land, which in turn is followed by grain, either wheat or oats, seeded down. Sometimes three crops of hay are taker, before the land is broken up again. The first crop is almost up agein. The arst crop is almost all clover, but a certain proportion of timothy seed is always included as an insurance of crops for the second and third years

The cows I found to be a rather mixed bunch, and the explanation of their lack of uniformity was given by one of the proprietors when he plained that a few years ago they had decided that they could buy cows cheaper than they could raise them. At that time they could, but in recent years they have found that really good cows and heifers are almost unpur-chasable, and they are now starting to raise their own milking stack

A Typical Quebec Barn
The barn on the Watson farm,
which, by the way, was illustrated in
Farm and Dairy some months ago, is
typical of thousands in that province.
It is built three storys his typical of thousands in that province. It is built three storeys high, the drive floor being right up in the roof, so that practically all the unloading of hay and grain is downhill litch the deep hays at the side. Another floor runs the length of the barn directly under the drive floor, and this comes in handy for storage, really taking the place of an implement shed. Bethe place of an implement shed. Bethe place of an implement shed the same of the storage really taking the place of an implement shed. the place of an implement shed. Be-low this again is the basement, in which are the stables. The main barn is 36x80 feet on the Watson farm, with an addition on the front end, 36x42 feet. All of the buildings on the farm are lighted throughout with acctylene gas. A small engine runs the cream separator, and nearby is the combined milk and ice house, built almost altogether of cemert.

The Watsons have all of the con-

the watsons have all of the conveniences of a good rural village in the village of Dunham, only a few minutes' walk from the farm. They seven miles from the shipping point at Cowansville, but they do find that so far away now as before the purchased their car. The road from Eunham to Cowansville is one of the finest in Quebec, and the Watson auto makes the trip in 20 minson auto makes the trip in as min-utes. "Hitch up in a team, and it takes you all day on the road," re-marked Mr. Watson, "Consequently when we had to depend on the horses, we rever got out at all. Now we think

when we had so depend on the horses, we Lever cot out at all. Now we think nothing of a trip to Cowansyille. It will be a grand day for Quebec province when her thousands of hay Farmers start do establish good meadows by the same methods that have been adopted so successfully by Wat son Bros.—F.E.E.

FREE to stockmen and positry-memory of the property of the pro

A Big Demand for Maple Products

The Champion Evaporator

makes the highest grade syrup and sugar fastor, easier, and at less cost than is possible by any other method. Sold on easy terous. Write to-day for full information. Grimm Manufacturing Co.

SG Wellington St., MONTREAL.

FOR SALE AND WANT ADVERTISING

THREE CENTS A WORD, CASH WITH ORDER

WANTED.—At the Protestant Rospital for the Insane. Verdun, F.Q., intelligent trails when the protestant respectively and trails when the protestant respectively. The protestant respectively.

farm for sale. State cash price and de scription. D. F. Bush, Minnespolis

MAN OR WOMAN WANTED to distrib-ute war literature. \$130 for sixty days' work in your community. Spare time may be used.—Winston Co., Limited, Toronto.

SITUATION WANTED by assistant cheese and by ter maker; three years' experience.—You 190, Farm and Dairy,



good has t a fair mone is abs man l fair the pr ery w

observ to one in the which the cr cream, when i the am for the fifteen several stock would

graft v stand t who we were re money. or ther in town the div and onl stock. to the

N

I NFOR stamp was requ of the E Conventi cently p ment reg ery, men cans wit

of the o lation is they pay As very be forth Farm and the Weigl

(27)

The Makers' Corner

The Dividend Question Jas. Sorensen, in the Dairy Record.

HEN all patrons of a cooperative creamery are also stock-holders of the creamery, it is not very difficult to settle the dividend not very difficult to settle the dividend question, but in many creameries there are some non-producers who own stock and these don't object to a good dividend, as the other fellow has to pay it. The best way of settl-ing the dividend question is to de-cide right from the start that no divi-dend shall be except that cide right from the start that no divi-dend shall be paid, and simply pay a fair rate of interest to all who have money invested in the creamy. This is absolutely fair, both to the holder and con-stockholder, and had non-stockholder, and a man has no kick coming if he receives man has no rick coming it he begins fair interest on his investment, and the patron owning no stock could not raise a valid objection to this either. For the benefit of those who still believe in a big divided, we might

believe in a big dividend, we might cite the case of a cooperative crean-ery which came under our immediate observation. This creamery had cless to one hundred patrons and about half of the patrons were slockholders in the creamery. The stockholders were all patrons with few contions, which gave them the full benefit of which gave them the tull benefit or the cream; he amarket for their cream, but they also had full control of the affairs of the association, and when it was up to them to devide on the amount of dividend that should be the amount of dividend that should be paid, the temptation was too much for them, and this creamery paid from fitteen to fifty per cert, dividend for several years. Another bad feature was that it was decided that no more stock should be sold because this would cut down the fat annual dividend.

dend.

The trouble with this system of graft was, however, that it wouldn't stand the test of time, and the patrons who were not stockholders got wise to the fact that their own neighbors was rabhing them of some real good was realized. were robbing them of some real good money, and these non-stockholders finally served notice on the stockholders that the high dividend must stop or there would be another creamery or there would be another creamery in town. The final result was that the dividend was cut out altogether and only fair interest was paid on the stock. It was also decided to sell stock to anybody who had cream to sell, and then cooperation triumphed to the benefit of everybody in the

Milk Can Regulations

NFORMATION regarding the new Dominion law relating to the stamping of milk and cream cans, stamping of milk and cream cans, was requested by Mr. Ma. Robertson of the Belleville Creamery at the re-cent Eastern Ontario Dairyners, Convention. Mr. Robertson had re-cently purchased some new cans and had to pay \$10 cstra because they were stamped according to government regulations. Formerly, creamery, men could buy eight or ten gellion cans without their being stamped to indicate capacity. Although resemcans without their being stamped to indicate capacity. Although cream-eries have to pay for the inspection of the cans they use, the new regulation is of an value to them because they pay for their cream by weight. As very little information seemed to be fortheoming at the convention. Farm and Dairy communicated with the Weights and Measures Branch of the Weights and Measures Branch of the Pagaringment of Inland Revenue as the Department of Inland Revenue at

Ottawa. The reply received from E. O. Way, Chief of the Branch, is as follows:

"For the starting point of this regulation, in must refer you to Sect. 73 of the W. & M. Act assented to in the House, 1906. The Department latterly became aware that large numbers of American cans were coming into Canada, containing 33 1.3 cits, yet these were everywhere regarded and used as eight-gallom cans.

this, yet these were everywhere regarded and used as eight-gallon cans.

"This raises a very important consideration. If payment is made by weight by dumping the mile the universal equivalent of 83/5 lbs.

"This raises a very important consideration. If payment is made by weight by dumping the mile the universal equivalent of 83/5 lbs.

If you would not be found to the universal equivalent of 83/5 lbs. In a last the can is the intermediary of trade, hence its equivalent in weight is given." The producer fills his cans to the neck, owned or seat to him, and looks for payment of the state of the st

beoute going into use as to accuracy of contents, (2) Where such cans are used as carriers, the milk and cream being bought and paid for by weight, no further inspection will apply, other than to see that such cans are not being used as 'measures' of capacity—of which there are large numbers—periodical reinsuspect of capacity—of which there are large numbers—periodical reinsuspect of capacity—of milk paly.

If cream cans are exempt from studies of can is used indiscriminately for both milk and cream, and if the cream can was exempt, unstamped cans can was exempt, unstamped can can was exempt, unstamped can can was exempt, unstamped can be under the cream can was exempt, unstamped can can was exempt, unstamped can be under the cream can was exempt. - with resulting prosecutions The one inspection for such is no great hardship, and it will entirely prevent such doubtful cans as the trasent 33 1.3 quart can getting into

use.

If cans used as 'carriers' became 'dented' it is of no great consequence as payment is made by weight in such cases. If the can used as 'measure' was 'dented' to make its capacity 'short,' the offender, owner or user is liable to prosecution therefor, inspection, and discovery of such measures being liable to be made at any time."

A Sure Cure

T is related of a rural editor that he received this question from one of his readers:—

"What is the matter with my hens? Every morning I find one of them laid out stiff and cold on the hen-house floor."

Next day this answer duly appear-

Next day this answer duly appeared in the query column:—
"Your fowls are suffering from death. It is an old complaint. The only treatment that we can prescribe is burial."

A city milk dealer in Montreal was getting about the worst milk of any retailer in that city. He adopted the sediment test and the discs were sent back to the producers with a few remarks. In five months this man was cetting the best milk in Montreal—Goo. H. Barr, Chief of the Dairy Division, Ottawa.



More Dairy Dollars

We have found a way to bring you more dollars without increased expense. We call this new profit "velvet," because it comes so easily. Our new book, "Velvet for Dairymen" tells all about it.

Your separator is losing cream, no matter what the make. A famous experiment station says, "The use of the gravity can, a low speed of the separator, and an excessive rate of inflow cause heavy loss in butter fat."
They have proven that 95% of all farm separators are turned below regulation speed. When the speed slackens, a lot of the cream escapes with the skim milk-and with the cream goes the profit.

The annual loss from imperfect separation is \$47 on the average farm and upon many farms it is \$100 and more. That's the tax you pay because you can't turn your separator at just the right speed all the time. But with

THE NEW SUCTION FEED

Separator you get all the cream at any speed.

A wonderfully simple invention enables the bowl to drink in just the right quantity of milk to insure the

closest possible skimming. You may turn slow and make the work easy or you may turn fast and get through quicker. You simply won't lose cream with the "Suction Feed."

Youget smooth cream of an even grade whatever the speed of the separator. Uniform cream makes fancy butter that brings top prices.

The supply can is only kneehigh. There's no hard lifting to empty heavy milk cans.

The new machine has all the features that have made the Sharples Tubular famous and many other new vital and exclusive features found in no other separator.

Send now for our new book, "Velvet for Dairymen," and learn how to secure this new dairy profit. Address Dept 77



The Sharples Separator Co.

Also Mechanical Milkers and Gasoline Engines

Toronto

The PAGE Wood Saw has all

the latest improvements

This is the faw that pas become such a favorite with a decome such a favorite with a favorite with a favorite f



Saw Blades supplied at these low prices

THE PAGE WIRE FENCE COMPANY

1139 KING STREET WEST, TORONTO.

FREE To introduce mating list Reds, Minorcas, Orpingtons, Hamburgs, Red and Speckled Sussex, will send Poultry and Esg Record Free. Regular price 15c. Ad. will not appear exain.



the Author

DOG DISEASES

H. Clay Glover, V.S. 118 West 31st St., 'N.Y.

IMPLEMENTS FOR Orchard and Vineyard

Spring Tooth Harrows

10, 15 or 17 Teeth

The 10-Tooth size is in one Section and can be furnished with handles for vineyard work when so ordered.

Spraying Outfits

Small outfits on skids-large outfits on wheels.

Vineyard Plows

Both Walking and Riding Plows especially built for orchard and vineyard work.



Orchard Disc Harrows

REVERSIBLE To throw the dirt to or from the trees or vines.
ADJUSTABLE Gangs can be adjusted as required. Extension can be furnished for working under branches.

Cultivators

A great variety—for cultivating small fruit—for vineyards—for orchards.

Grape and Berry Hoes, etc.

And Orchard and Spraying Machinery of all Kinds.

TORONTO MONTREAL MONCTON WINNIPEG REGINA

Massey-Harris Co., Limited

SASKATOON YORKTON SWIFT CURRENT CALGARY EDMONTON

The Farmers' Grain Exchange

Strong, Vigorous Seed is the Start for a Big Yield

SEED CORN - WISCONSIN No. 7-

We have some fine Wis. No. 7 seed Corn for sale. This corn is picked from the standing stalk, carefully selected for that purpose. This method of drying insection of corn of the second covers to the numeral were season throughout these copy of control of the numeral were season throughout the copy of the control of the . R. R. 2, ESSEX. ONT.

W. W. Ballantyne is President

W. W. Ballantyne is President

A 'the recent annual meeting of
the directors of the Ontario
the directors of the Ontario
provincial Winter Fair the following officers were elected:—Honoary Fresident, W. W. Ballantyne, Stratford; Vice-President,
John I. Flatt, Hamilton; SecretaryJohn I. Flatt, Hamilton; Secretarycutive Committee—John Gardhouse,
Committee—John Gardhouse,
J. B. Flethour; Burford; William Mc.
Neil, Jendon; A. McKenney, Amberstburg.

The new president, W. W. Ballan-tyne, is a dairyman and one of the

CUTAWAY HARROW COMPE-

Lack of space has prevented us from inserting our advertisement concerning our Great Cutaway Harrow competition as we had intended doing. We do not wish Our Folks to think, however, that the competition has been withdrawn. A great deal of interest has already been created and we are sure that the created and we are sure that the three handsome prizes which are offered will be won in a very short time. Full details of the competition were given on the back over of last week's issue of Farm and Dairy, and we would refer any who may be interested to that number.

representatives of the dairy interests on the Fair Board. He is also presi-dent of the Rural Publishing Company, which publishes Farm and Dairy. The dairymen of the province will be well pleased to see one of their number as president of the Winter Fair Associa-tion.

The date for the next Winter Fair is December 1 to 7, 1916.
It was the decision of the directors to add a class for shearing ewes for the 1916 Show, to take the place of the class for shearing wethers.

A Profitable Small Orchard

A Prolitable Small Orchard

UR orchard at Spruce Ledge
Parm is only one-half acre in extent. In 1914 was a go have rele so spare, and realised \$1.10 me, relet so spare, and realised \$1.10 me, relet so spare, and realised \$1.10 me, relet so ur half acre of orchard about the most profitable land on the farm.

My real interest in orcharding dates back to an institute trip that 1 sook with Mr. Porter, of Appleby. 31c made me a convert to spraying, and all other me a convert to spraying, and all other

me a convert to spraying, and all other me a convert to spraying, and all other up-to-date practices. In our orchard now we spring plow, cultivate to about the middle of June, and then sow a cover crop of Hungarian grass and buckwheat. The chickens har-vest the buckwheat. We spray three times name aware. times, prune every year and manure

every second year.

Our spray mixture is lime sulphur and lead arsenate. In all of that 68 harries we did not find a dozen wormy apples. The last spraying we gave was a regular soaking, the mixture dropping off the leaves. Apples with us as with most darry farmers, are just a sideline, but it is a sideline to which one cas afford to give the best attention.—W. S. Shearer.

WALKER SONS

Essex Farm Seed Corn Golden Glow

Wisconsin No 7 Bailey

White Cap Yellow Dent Longfellow We sell none but first class seed.

Owing to the scarcity of good seed this year old and prospective cus-tomers should order without delay. WALKER SONS, WALKERVILLE, ONT.

-SEED CORN-

We have to offer this year choice rack-curved Seed Corp of many varieties: the suly open plant this year. After ten years' explant the year years' explant the year years' years years years years years and years years

St. Joachim, Ont.

GOOD PLUMP, CLEAN SEED

Carafully weeded while growing, price 80c per bushel. Samples sent on request. 16 oz. Cotton Bars. 30c. extra. Bags hold Three Bushel EDGAR BRODERICK, R.R. 1, Easter, Oat.

FOR SALE Everything

FOR SALE From a n

Lipide ro in a stream

Lipid



O.A.C. No. 72 OATS

FOR SALE—Good Clean Seed, trus to name, selected from prise winning field a year ago.
F.O.B., Woodville, Sacks free Dush., F.O.B., Woodville, Sacks free, Sacks free, Woodville, Ont., R. No. 4, Woodville, Ont.

GOOD CLEAN SEFD IMPROVED BANNER Good clean seed, true to name, grown on high, heavy clay, 65c a bus. Bags extra.

LOUIS SEEBACH, R. R. S, Stratferd, Ont.

weet Fresh Ensilage THE HYLO SILO is per-fectly sir-rate. No freeze



1914

rn

ent

NT.

ERS

b.D



The Wagon Shop That Became the Largest Automobile Factory in the British Empire

Back in 1903, the town of Walkerville, Ontario, was possessed of a concern called the Walkerville Wagon Company.

cern called the Walkerville Wagon Company.

If, on some day when business was not rushing, the general manager,
Gordon M. McGregor, wished to take a little stroll, he could walk around
his shop in about 2 minutes by the factory clock.

Nobody would have believed at that time that this shop would, in a few
years, develop into the largest plant of its kind in the Empire having a
floor screage of over 435,000 square feet and making 3 times as many cas
as any other automobile factory in the British Empire. But so it has

Through the efforts of Mr. McGregor and his Canadian associates, this agon shop has been turned into the great Ford plant at Ford City, Ont. The factory today is one of the industrial show places of Canada.

Here are the highest paid automobile mechanics in the Empire who put their best into the building of a car that has won its way into the con-fidence of the Canadian public.

Here are hundreds of machines designed by Ford engineers, which are marvels of the industrial world.

Many of them would do the work of an ordinary sized automobile com-pany in a week or so, but because of the demand for Ford cars they are kept busy the year round.

kept busy the year round.

Here a new Canadian Ford car is born every three and one-half minutes.

Here workmen are busily engaged in making additions so that the production of cars may keep pase with the demand. There never has been a time since war began when gangs of men were not at work expanding the plant, literally building for the future.

Look in at the power plant and you will see two monates 650 horse-power gas engines. What a contract to the early days when the story power was derived from the hind wheel of a Model "C" car!

In the immess heat treatment blant. Vanadium state, the worst except.

In the immense heat treatment plant, Vanadium steel, the most expensive and best of steels, is hest-treated the Ford way. Here each steel part he especially prepared for the stress and strain it will have to withstand in the completed car.

the completes car.

The machine shop contains many wonderful sights for the visitor. There are long rows of very expensive gear cutting machines. And there is the great machine that mills 48 cylinders at one time! And another that drills 48 holes at once in a cylinder easting from sides, top and bottom. Marvelous speed and equally marvelous accuracy!

The there is the handeron office huldler in which close to 200 workers

Then there is the handsome office building in which close to 200 workers are employed. In all there are over 30,000 people dependent on the Canadian Ford Plant for their support.

In this plant the Ford car is constructed practically in its entirety— even the steel, as mentioned above, is refined here.

Furthermore, and here is a record rarely found in other large Canadian factories, all but \$16.88 worth of the material used in the making of the Canadian Ford is bought right here in Canadia. Few products can lay claim to being so strictly "Made in Canada. Few products can lay

Consider what this means to Canadian industry when it includes such immense purchases as 25,000 tons of steel, 1,500 tons of brass, etc.,

120,000 wheels, 200,000 lamps, and other materials in proportion. Practically the entire output of several large Canadian factories employing hundreds of workmen is taken by the Ford Plant at Ford City, Ont.

But great as this influence is for the increased prosperity of the Empire; it does not stop there. All over the Empire are Ford Dealers who are important factors in increasing the wealth and prosperity of their com-

The spirit of faith in the future that has prompted the Fort Canadian Company to proceed with a policy of full-speed ahead in times that have seemed to many to require the use of extraordinary caution and conservation, is a happy, progressive, enthusiastic spirit that is radiated in every city or town of any size in the whole Dominion and in the Empire over the seas through the Ford Dealer whom you will find there.

Saider this these are the mine heart-has in Canadia and cap in Mole.

Besides this there are the nine branches in Canada and one in Mel-bourne, Australia, four of which have been rebuilt since war began at a cost of over \$1,000,000, that are powerful supports to these dealers in being elements of first importance in adding to the wealth and progress of

But, phenomenal as the development of the Ford Plant has been, its great success was not attained without its share of great difficulties.

grees nuccess was not artained winout his snare of great dimension.

The first three years of its existence were somewhat precarious. The first car was not shipped from the factory until six months after the company was organized. Nowadays, 20,000 cars would have been shipped

The first main building was a two and a half story brick structure and the entire plant occupied about one acre of ground. The machinery consisted of one solitary drill press.

But from 1910 on the business increased so fast that it was difficult for the

plant capacity to keep pace with the sales and additional buildings and equipment were constantly being constructed and installed.

equipment were constantly being constructed and installed.

In 1911 the output was 2.400 cars, in 1912, 6.500 cars were built, and so on up to this year's estimated production of 40,000 cars.

The executives of the Canadian Ford Company make no consideration of the war. They are so thoroughly Canadian in their ideals that they take the prosperity of Canada and the triumph of Britain and her allies as accomplished facts.

accomplished facts.

No stops have been made in their plans for progress—not the slightest hesitation has been evidenced in developing this great Canadian Plant to its highest degree of efficiency on account of the war.

As evidence of this \$652,000 has been spent on new buildings at Ford City—a million dollars has been spent on new equipment—over a million dollars was expended on branches in four Canadiar, cities—and 900 men have been added to the payroll—all this in a belligenent country during the progress of the greatest war the world has ever seen.

In addition, the price of the Ford car has been reduced \$120 since that

In addition, the price of the Ford car has been reduced \$120 since that

In addition, the price of the Forst car has been reduced \$120 ance that memorable August 1, 1914.

So then, this is the story of the wagon shop that became the great Canadian Ford Plant. An industry that is proud to say that it builds its product from Canadian material, with Canadian workmen and that backs its Canadian patriotism with its hard cash.

Ford Motor Company of Canada, Limited, Ford, Ont.

Ford	Runabout	200	90	\$480
	Touring			- 530
Ford	Coupelet	200	120	730
Ford	Sedan .	223	20	890
Ford	Town Car	363		780
	o. b. Ford,			



including electric headlights. Equipment does not include speedometer.

OUR FARMERS' CLUB

Correspondence Invited

QUEBEC.

ONTARIO.

BRITISH COLUMBIA.

BRITISH COLUMBIA.
WESTMINSTER DISTRICT,
MATSQUI, Feb. 12.—After som
is almost continuous winter weat
re having a thaw with Chinook
eed prices are souring. There is
clearly the continuous winter was
the continuous winter was
the continuous winter was
the continuous winter with
the continuous winter with
the continuous winter winter
the continuous wint

Canadian Ayrshire Records

THE following is a summary of the records of 60 Ayrshire cows and helf-cra that have qualified in the Record performance test from commencement of the commence of the commencement of the

fat.

66 four-year-olds gave 9.881.50 lbs. milk,
and 389.66 lbs. butter fat.
156 three-your-olds gave 8.390.80 lbs. milk
and 340.25 lbs. butter fat.
379 wo-year-olds gave 7,500.65 lbs. milk,
and 35.67 lbs. butter fat.
36.87 slephon, decrebary-Treasurer.
36.87 slephon, decrebary-Treasurer.



2, 1916,

milk wille

Market Review and Forecast

TORONTO, Monday, Feb. 28.—A discussion of market prospects for a volves a discussion of the habor problem, and this problem indiscriminate recruiting and this problem indiscriminate recruiting the second of the control of the contr

WHEAT.

The our report last week we mentioned that the market was high enough to be unlessly. The break came this week, and unlessly state of the last control of the last con

COARSE GRANS.

Coarse grains have stumped along with wheat, and quotations are now strongly educed almost all along the line. West-coarse grains all along the line. West-coarse grains and the line was allowed and line was allowe

POTATOES AND BEANS.

Potatoes are seiling at lower prices. On-ries are quoted \$1.35; Delawares, \$1.89; car lots, 15c less. Prices will probably influes lower till near seed time, when advance may be expected, although ch an advance was not realized last ar, but the crop was then abnormally

DAIRY PRODUCE.

Dealers on this market have been inced to shade prices alignify to quicken siness. With the retail price of dairy means to the property of the product of t DAIRY PRODUCE.

Wholesalers are selling to the country ade as follows: No. 1 red clover, wt., to \$38; No. 2, \$24.50 to \$22.50; No. 3, 1; No. 1 alnike, \$22 to \$24; No. 2, \$18 to \$1. No. 2, \$18; No. 1 alnike, \$20 to \$24; No. 2, \$18 to \$1. No. 2, \$18; No. 1, \$19; No. 2, \$10 to \$11.50; No. 3, \$35.0 to \$18,170.0; No. 3, \$35.0 to \$18,170.0; No. 3, \$35.0 to \$18,170.0; No. 3, \$35.0 to \$11.50; No. 3, \$35.0 to \$1

What Did Little Mary Buy?

1916 Ford Touring Car For the Best Reply

\$1000.00 In other Fine Prizes Also Given





"OLEVER READERS OF FARM AND DAIRY"

centing the best correct or marks control to the description of the distribution of th





menten here. His illustrated Price Lat will be minited to you direct.

It your answers gain 129 points you will win First Price

A FRU going answers gain 129 points you will win First Price

A FRU going answers gain 129 points you will win First Price

A FRU going answers gain 129 points you will win First Price

A FRU going answers gain 129 points you will not read to the fourteen numbers, are steple

three gains as are to be four pools mentioned under each of the fourteen numbers, are steple

three gains are going and gains and gains and gains and gains and gains

three gains are going and gains and gains and gains and gains and gains

Mn. From was civer, and sometimes the made two or trees words, and we are careful accurate

entry, and we will full want the prices in this cactest, according to the points gained by each

of points can be gained by scouling a correct answer to each of the twelve names or any gains,

you quality, 40 po given for general notates, ten for give, seeding, punctuation, etc., and when

be ment and careful, and you can out a most optic.

the great courtes. Frankly, if NYTEST—Every loyal Canadian will approve of the object of

the great courtes. Frankly, if NYTEST—Every loyal Canadian will approve of the object of

you can help us be worth in being published right here in Canadian. You can help us the worth in being published right here in Canadian by Canadians for Canadian

You can help us the worth in being published right here in Canadia by Canadians for Canadian

you can help us the worth in being published right here in Canadian by Canadians for Canadian

You can help us the worth in being published right here in Canadian by the worth in the canadian of the canadian of the published of the canadian of the canadian of the canadian of the published of the canadian of the published right here in Canadian by the worth in the canadian of the canadian of the canadian of the published of the canadian of the published of the canadian of the canadian of the canadian of the canadian of the THIS CONTEST IS ABSOLUTELY FREE OF EXPENSE





OR, EVERYWOMAN'S WORLD Continental Publishing Co., Limited, 121 Continental Bldg., Toronto, Onte-



(32)

Here is a light weight, durable and someortable working shoe specially untitable for farming woodsneen, millians, trackmen, later, woodsneen, millians, trackmen, later, and who require extra strong, casey of working in. We make them of the plendid oil-tanned Showbergan water-roofed leather that has made Palmer's"Moose Head Brand"

Failinet S Moose Read Brand"

famous for since forty rears. No need to suffer with lired, sore, aching, burning feet. Get a pair of those and find feet. Get a pair of those and find start, and the suffer of the s

Much Depends on HOW You Sow!

A lot depends on the seed you use—a whole lot upon how you sow it. Proper seeding means that every seed is deposited where it will get the best chance. The "Leader" Disc Drill places the seed right at the bottone. We therefore because the shields go well down on the discs. We haphadard acattering of seed when you are seeding with a "Leader."

Old-time drills have disc castings of grey iron. We discarded this method, and equipped the "Leader" Drill with malleable disc castings, giving more atrength with far less weight. The discs on the "Leader" will run clean through stiff mud and he grash without choking. They are made of high-quality sery tank without choking. They are made of high-quality sery tank will not break when you arrike stones or tough root.

The discs on the "Leader" are rigidly held at the proper cutting angle and run on chilled bearings provided with dust-proof hard oil compression cups. Other good features told about in our free booklet. Write for its

The Peter Hamilton Company, Limited PETERBOROUGH, ONT.



Better Work

Sold by all John Deere Plow Co. dealers





OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS, FROM FEB. 1 TO FEB. 15, 1916.

Mature Class, Over 27 lbs. Butter.

1. Madam Pauline Canary, 16499, 59, 1m. 11d.; 476.0 lbs. milk, 24.00 lbs. fat. 30,00 lbs. 80% butter.—A. E. Hulet, Norwick.

im, 11.4, 47.6 ba. milk, 24.00 bas fal30.00 bbs 900 butter, 11.1 billed, Novwies, Nathalie Cichille Perfection, 14973,
10.7 dm, 26.1, 26.2 bs. milk, 25.6 ba.
10.7 dm, 26.1, 26.2 bs. milk, 25.6 bs.
10.7 dm, 26.1, 26.2 bs. milk, 25.6 bs.
10.7 dm, 26.1 bs. butter, 26.1 bs.
10.8 dm, 26.1 bs. milk, 27.1 bs.
10.8 dm, 2 butter, 44 avecord: 47 &m. 12d.; 1264.9 lbs. milk. 31.40 lbs. fat. 41.75 lbs. butter.—R. M. Hotby, Port Perry.

1. County. Clay Mechal. des. 21169. 49; m. 44; 52.76 lbs. fat. 13.51 lbs. fat. 13.53 lbs. butter.—Walburn in. 47.67 lbs. fat. 13.53 lbs. butter.—Walburn in. 47.67 lbs. fat. 15.51 lbs. fat. 1

wich.

2. Payrae Segis Countess. 2533, 3y, 6m.
96.; 471,2 lbs. milk. 18,75 lbs. fatt. 17,39
lbs. butter. corect: 3y, 6m. 64, 533,4 lbs.
milk. 25,43 lbs. fat. 3.05 lbs. butter.
2.1-day record 3y, 6m. 96.
milk. 25,14 lbs. fat. 48,99 lbs. butter.
L. M. Holly, Fort Perry.
L. M. Holly, Fort Perry.
L. M. Belbs. Model Gleen, 2525, 3y, 6m.

1. Belbs Model Gleen, 2525, 3y, 6m.

6d.; 386.3 lbs. milk. 17.63 lbs. fat, 22.03 lbs. butter.
The butter.
The proceed: 2y, 6m. 6d.; 1876.4 lbs. milk.
The proceed: 2y, 6m. 6d.; 1876.4 lbs. fat, 20.03 lbs. butter.
A. J. Hardy. 6st. 86.17 lbs. butter.
A. J. Hardy. 6st. 86.0 lbs. smith, 16.17 lbs. fat, 20.03 lbs. butter. shortly Fatch.
The fat, 20.04 lbs. smiter. shortly Fatch. tron 657.9 ha mile. Spair cow will do much better on another tert. With your on an except of the spair of the ibs. fat, 15.65 hs. butter.—Mansell G Gibson, Vankleek Hill. Jr. Two-Year-Class, Over 17 ibs. 1. Counteas Ladoga Mercona, 31652, 2y, 1m. 23d.; 353.0 ibs. milk, 1495 ibs. fat, 18.65 ibs. butter.—J. G. Currie, Inger-

The lower prices for eggs at retail series, the prices of the prices of the setting the prices of EGGS AND POULTRY.



BISSELL CO., Ltd.,

puts new life in your harness. Keeps it from drying up and cracking. Makes it soft, pliable and strong. Contains no animal or vegetable fats to become rancid. It makes harness last longer. Dealers Everywhere

The Imperial Oil Company

BRANCHES IN ALL CITIES

GOOD RECORDS AT KORNGOLD

Cure Your Cows of Caked Udders

Egyptian Liniment 8 APPLICATIONS GUARANTEED

For Sale Everywhere Douglas & Co., Mfs. Napanes

SELWOOD AYRSHIRES

Only Two
Toung bulls, fit for service, from
R.O.P. danns with good teats.
Helpendid individuals, good colors,
Write for breeding and special price. J. L. Stansell, Straffordville, Ont. 1916.

ALDWELLS

Raise Calves Without Milk

Caldwell's Calf Meal enables you to sell your whole milk, yet raise as good or better calves. Tests prove it without an equal for "yealing-up"

CALDWELL'S Calf Meal

is rich in protein and furnishes a complete substitute for whole milk analysis shows Protein 19 to 200, Fat 7 to 30, Fibre 30, The high Quality ingredients as guaranteed to the Government are: Lineed, Wheat ensure best results.

Caldwell's Calf Meel is a big money-maker for users and has the recom-ndation of leading stockmen. Write for free booklet.

The Caldwell Feed and Cereal Co., Ltd., Dundas, Ont. Makers of all kinds of high class

NDARD F

They Look Good to Us!"-

Did you ever notice what the daughters of Pontiac Hermes are doing? We have 18 of them that we must breed to something else. We might consider an offer for this grand old buil. He is as hale and hearty as ever at 10 years of age. Write to us at once.

E. B. MALLORY, Bay Side Stock Farm, BELLEVILLE, ONT.

*AVONDALE HOLSTEIN BULLS

SIX BULLS \$ to 12 months from high record dams and sired by our KING PONTIAC and PIETJE \$5.50 lb. dam) bulls. We are offering bargains to make room for our new arrivals, and are selling fast. Several younger ones from dams with \$7\$ to \$7\$ lbs.—two sired by MAY ECHO \$VLVIA'S GREAT SON. Address—

H. LYNN, Avondale Farm, R.R. No. 3, BROCKVILLE, Ont.

VILLA VIEW HIGH-TESTING HOLSTEINS

Now is the time to buy a son sired by King Segis Alcarra Calamity, the 5500 sil-1b, show bull, sired by the \$6,000 bull. Only three youngstors, three that the 191 sil-1b, show the constant of the constant that the 191 sil-1b s

ARBOGAST BROS

SEBRINGVILLE

LAKEVIEW STOCK FARM, BRONTE, ONT. Breeders of highoffer for sale Choice Young Bulls of various ages, all sons or Grand-sons of
16th. Lows. One 1s out of a 34.56-1b. men of staughter of Lakeview Ratbro. to L. Dutch. Artia, Can. Champ. 3 yr. old butter cow(34.89) lbs. butter in
7 days. Terms to suit purchaser.
2. T. A. DAWSON, Manager. T. A. DAWSON, Manager

- SIRES READY FOR SERVICE .

To-day we are offering several good quality sires ready for work. One of the control of the cont

LYNDALE HOLSTEINS -

BROWN BROS.

LYN, ONT.

Clear Spring Farm Holsteins

We are now offering two buils ready for service, 13 and 13 months old, since fir Floyd Korndyke (16295), Grandson of Natoy DeKo 4th 76 Dek. 13 De. butter in 7 days. Their dams have just completed their yearly R. O test, one, Lady Waldorf DeKol 3rd (1319) making 17,481 Des. as a mature like than has a record of 8150, and her sider 15.08 as junior two-year days of the ready was a side of 15.00 and her sider 15.08 as junior two-year days of the ready of the r

Clear Spring Farm,

MERRICKVILLE, Ont.

"Correspondence Solicited"

"Drop us a line" giving your address and age at nearest birthday, and we will send you a complete Life Insurance Prospectus indicating the special plan most suitable to one at your time of life.

We have studied every phase of the life insurance question, and will be glad to give you the benefit of a long experience. There will be absolutely no obligation resting on you to act upon any of our sugges-

If you have dependents who would be in need in the event of your death, you require life insurance, or rather they require that your life should be insured.

Our aim is to furnish the largest amount of insurance at the lowest possible cost.

The Mutual Life

Assurance Company of Canada Waterloo, Ontario

THE W. S. SHEARER BALE.

The sale success. Twenty administration of the street of the

calf, \$50; Majorie Grange, hetfer calf, \$60; Rosarden Lad, 1 yr. old bull, \$115.

SALE DATES CLAIMED.

SALE DATES CLAIMED.
Dispersion male of registered Holateins,
Blow Rolly, Tavisiock, March 9
Enciders' Club, March 18-10-10, Tavisiock, March 9
Enciders' Club, March 18-10, Tavisiock, March 19
Enciders' Club, March 18-10, Tavision Enciders' Club, March 19
Allison Bros. Chesterville, sale of Holateins at Belleville, March 19
Allison Bros. Chesterville, sale of Holateins Complete dispersion and of 100 head of pure bred Holateins, May 1.—W. C. Stevens, Philipsylle.
Holateins at Avenadale Farm, Brockville, will be held May 11-10.

Brockville, Districe, Chub.

Brockville District Club, sale of Hol-steins, about 75 head, May 18.—G. A. Gilroy, Secretary.

LAKESIDE AYRSHIRES

A select lot of young bulls, all ages, sired by Auchenbrain Sea Foam (Imp.) 35758 (3865), Grand Champion at both Quebec and Sherbrooks, from Record of Performance Dams. Write for extalogue.

Proprietor:
GEO. H. MONTGOMERY,
Dominion Express Bidg., Montreal.

Manager: D. McARTHUR, Phillipsburg, Que-

For Sale-A Fine Holstein Bull Call

MICHAEL A. ARBOGAST. Fineview Stock Farm, R. R. 3, Stratford, Ont.

KING SEGIS PONTIAC WAYNE

A fair individual, born Dec. 6, 1914. His dam, Elmdale Mabel, a 100-lb. 4poar-old, with 23 lbs. butter. His sire, King Segis Pontiac Diplicate, a son of
King Segis Pontiac and a sister to the first 44-lb. cow.
R. M. HOLTBY
R. R. 4
PORT PERRY.

RIVERSIDE HOLSTEINS For Sale, Choice Young Bulls, sired by Royal of Pouliac Korndyke, a grand-son of Pouliac Lady Korndyke, 350 butter 187, 350 days—world's record when made. Also females bred to "King."

- KORNGOLD STOCK AND DAIRY FARM IMPROVED ENGLISH YORKSHIRES—Toung Sow 4 months old:

also a few Boars and Sows 2 months old

F. J. McCALPIN, Korngeld Stock Farm, GANANOQUE, ONT.



23 Head including the Herd Sire

COMPLETE DISPERSION SALE OF

REGISTERED Holsteins



THURSDAY, MARCH 9, 1916

This sale includes my entire herd-not a big one, but you'll acknowledge it's a good one in both breeding and records.

It includes: A 26.60 lb. 4 year-old, testing 4.45% fat. mature cow with 23.12 lbs. and 17.874 lbs. milk in a year. In addition are several choice 2-year-olds with good records. Two of my best ones are to freshen ready for Guelph next fall.

Nearly all are young animals with their whole life shead of them.

OURVILLA SIR TEAKE

The senior herd sire-if you require a sire don't fail to get our catalogue on this fellow. Also a couple of younger sires. This is your opportunity to get some good young stuff at your own price. Every animal will be sold as the farm is leased.

Sale at 1 p.m. Terms cash or eight months on bankable paper. Morning trains met at Tavistock.



Catalogues are Ready-A Card will Briag One

ONTARIO

Is headed by King Segis Alcartra Calamity, the \$2,000.00 son of the \$50,000.00 Is nessed by King week Acceptor, Commity, the \$2,000.00 and the Source Source Bull. Young bulls for sale ready for service from high record dams at value. Others a little younger sired by King, with two nearest dams averaging over 10 lbs. in 7 days. If you want to raise the standard of your herd, write— PETER S. ARBOGAST, R. R. No. 2, MITCHELL, Ont., SEBRINGVILLE Str.

Bulls Fit for Service

B. E. HAGERMAN

HAROLD, ONT.

THE ELIAS RUBY DISPERSION.

UST one less than two dozen good ones will be offered by Graceland Herd for Mar. 9 at Tavistock. This

ones will be offered by Graceland his Alexel for Mar. 9 at Taylatock. This as a three to the common of the common

Feb. 16 to King Lyons Hongeroul and with thus he a good candidate for Gassian with this he as good candidate for Gassian with 1.6.2 lbs. 42 yr. olds. with 1.6.2 lbs. 43 yr. olds. old 1.6.2 lbs. 44 yr. olds. 45 yr. old. 45 yr. olds. 45 yr. old. 45 yr. olds. 45 yr. old. 45 yr. old.

Particularly strong blood has been at the head of this herd. The present herd

THE 80 HEAD AT WOODSTOCK.

AT the 5th annual sale to be held at Woodstock on the 15th of March, there will be the usual high class of cattle offered. The Oxford Breeders, under whose auspices the sale will be of cattle effered. The Oxford Breastire, under whose auspiese the asks will be held, have a proud tile to maintain. One of the chief attractions will be Prince Abbelerk Mercan, the great show bull, the winner of many hard coftests—the winner of many hard coftests—the winner of many hard coftests—the part of the prince of many hard coftests—the prince of the part of the prince of the part of the prince of the part of the prince of th days. In offering him Mr. Bowe is giv-ling someons a chance to get in on the ground floor. Mr. Rowe also offers a offers a double for the chance of the first a double for the chance of the floor a double for the chance of the floor and the chance of the chance of the daughter sha any other size in Cannal, and the chance of the chance of the chance and Tdy Pauline En of Cornelius Fosch and Tdy Pauline En of C

The Oxford District Holstein Breeders Club-

Will Hold Their 5th Annual Sale of

80 Head Registered Holsteins at Woodstock, Wednesday, March 15

The sale to be held this year promises to surpass anything previously held here, both in quality of offering and in high record stock. It will be well for all wishing to secure high class stock to plan to attend this sale.

PRINCE ABBEKERK MERCENA the three times champion and grand champion of the Canadian National Exhibition. Another will be a 26 lb. daughter of Annaudale Colamba and her sister. There will also be geveral granddaughters of Prince Abbekerk Pauline, the sire of Madam Posch Pauline, 17,426 lbs. of milk in 179 days. Also a few granddaughters of King Fayne Segis, the grand sire of the only 1395 lb. butter 3-ver-oid, and the only 1200 lb. 2-ver-oid, a number of grand-daughters of a brother of Fontiac Korndyke—one of the best daughters of Sir Abbekerk Posch, and many other good ones.

Write the Secretary for a Catalogue

W. E. Thompson, Secretary

Woodstock, Ont.

T. Merrit Moore, Wm. Pullen, Auctioneers



1916.

eld at farch, class eders, ill be One

bull,

the dadam
world da adam
world da adam
n 179
giv181
giv187
giv1

TORONTO, ONT.

Farming in Manitoulin w. G. Runnalls, Manitoulin Dist., Ont.

THE illustrations are with show the burns and silco of W. O. Runnall, The silos, which were built in 1914, are being filled again, using gasoline power, a six h.p. engine running a loinch Papec cutter and blowing it into the 35-feot silos at a fair rate. The Manitoulin District of Northern Ontario has been considered doubtful as a corn growing part of the province, but during the past three or four years competitions in growing four years competitions in growing



Another Manitoulin Silo Filling.

This silo, too, is 12 by 35 feet and is a source of both pleasure and profit to its owner, N. A. Runnels, Manitoulin Dis... Ont.

an acre of corn have proven that it can be grown very successfully, and yields from 12 to 24 tons per acre as the result of these trials.

There have been few silos in the district, only two or three of cement, district, only two or three of cement, put up about six or seven years ago, but our farmers are beginning to realize the advantage of silage as a cheap feed to help carry over the stock during the long winters, and as a result quite a number are planning to erect silos soon. In the township of each of the seven the season of the season, and three in the season of Robinson in the township of Gordon, also six in the township of Robinson. of Robinson.

Some are stave silos, several others



A Silo Filling on Barrie Island.

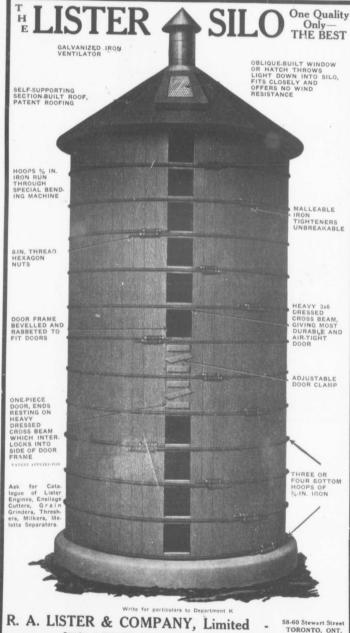
A 5160 Filling on Bairle Island.

This silo, owned by W. O. Runnels, is 12 x 35 feet, and this season was filled with a good crop of White Cap Yellow Dent. Silos are coming into their own in the Manitoulin District of Ontario.

Manitoulia District of Ontario.

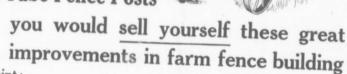
Scanlling frame, lath and plastered inside, and either plaster or lumber outside, while a number of others are made with three-ply of lath for hoops are all the plant of the plant been no creameries running for some years. Beef cattle have been taking the lead, but some have been trying the Holsteins with varying success.

Hogs like to wallow in the mud, but it does not necessarily follow that a hog wallow is a good thing to have. Lots of shade is to be preferred.



Branches at WINNIPEG, MAN., and 82 Water Street, ST. JOHN, N.B.





Our Point:

Is "Cut out the waste in farm fence building." Why dig a hole three times too big for a wooden post, then stick the post in, fill up the hole and have the post rot too pieces in a year or so and have to go building the whole performance again? Why do it? Especially when the same as the so much better. With Standard Steel Tube Fence Posts a line is driven as a line building they were tent pogs. Once in, they are anchored for all time. They had toget they were tent pogs. and they won't sag. They can't burn and of course unveiled crop-ruining pests like the cedar posts. Ask the men who use them. They are unveiled crop-ruining pests like the cedar posts. Ask the men who use them. They is duly four fence building is cheaner, casier and a better job when you use STANDARD STEEL TUBE FENCE POSTS AND WIRE FENCING.

Our Prices:

Sometimes we think fence advertisers in general must know very little about farmers. Everyone claims "The lowest prices"—as though that meant anything to a farmer who is on to his business. We believe flaures talk louder than words. We believe you believe the same. We therefore ask you to get uprice list and brass tacks on the price question. Just send us the coupon and let us quote YOU. That's fair, isn't it?

Our Guarantee:

Guarantees count a lot this year—more than ever before. Steel is way up. Galvanizing materials are skybligh. The tendency is to skimp. Don't buy skimped fence. It's the most expensive there is, no matter what the price. Our usual suarantee goes this year as always for "FULL GOVERNMENT STANDARD KNOT—"THE TIE THAT BINDS."

Your Move:

We ask you to send the coupon for our catalogue and fence prices. Compare them. Compare the goods. Compare the guarantee. Then give your order to the firm that deserves it. Fair and square, lant it? I we ask is the return of the coupon, then it is up to you. Tear it off, sign it and mail it today, to the

Standard Tube & Fence Co., Ltd.





STANDARD TUBE & FENCE CO. F.D.

Please send me prices, catalogue and Special Post Circulars.

