

## FARM AND DAIRS

-

## Every Little Bit Added to What You've Got Makes Just a Little Bit More

358

The "Little Bits" have been the foundations for most of the big fortunes of North America. Your "little bit" is right in that stream of skim milk that is carrying a goodly percentage of "skimmable" cream with it if any fixed-feed separator is being used.

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Farm and Dairy stands foursquare against everything that is detri-mental to the farmers' interests, and whatever appears in its columns, either advertising or editorial, is guaranteed reliable.







## Preparations Made for Important Fruit Legislation

Standards Agreed Upon for Fruit Packages. New Grades for Fruit Defined. Power of Fruit Inspectors Likely to be Increased

W HAT promises to be a memor-able gathering of truit-grow W able sathering of truterow ers took place in Ottawa, March 26th and 27th, whan representatives of the fruit-growing interests in the of the fruit-growing interests in the leading fruit provinces of Canada government officials, and basice manufacturers met at the invitation of the Dominion Fruit Commissioner hankat and with the approval of the Domin-ton Minister of Agriculture, to remend long-deferred legislation commend long-deforred ingustation in the interests of the fruit industry. A surprising amount of important work was accomplished during the two draw actas of meetings. More real days' series of meetings. progress being made in a direction of obtaining definite legislation deal ing with important matters than has been accomplished in the past 12 or 15 years, and at several conferences

of the past. In opening the conference, Mr. D. Johnston, Dominion Fruit Commis-sioner, explained that there was a sioner, expansion that there was a need for the passing of important legislation at the time the war broks out, but owing to the war, the Government did not feel disposed to take eramont did not reet disponed to take action. As some of these matters re-quire action he had taken the matter up recently with Hon. T. A. Crerar, Domin'on Minister of Agriculture, who had given his approval of the holding of the conference, and his assurance that he would be willing to press for needed legislation at the present session of Parliament. The fruit growers who attended the

conference, were unanimous in their desire to allow minor differences of opinion to drop out of sight in order that definite results might be acunusual results that attended their deliberation. The following is a brief statement of some of the important decisions arrived at.

A New Barrel Standard.

It was decided to recommend the Government to make the American apple barrel the standard barrel for Canada also. At present there is no standard barrel for Canada other than a requirement that the barrel shall contain as nearly as possible, quarts, and be not less than 26% inches between the heads. The result has been that Nova Scotia has used has been that Nova Scotta has used a small barrel, while Ontario has used a considerably largor barrel, having the 30 inch staves. The new American barrel is slightly smaller than the Ontario barrel and a little larger than the Nova Scotia barrel. Its stave will be 281/2 inches in length the distance between heads will be 26 inches, and the circumference at the middle, 64 inches. The head diameter will be 17½ inches. This will give a uniform apple barrel for the whole country.

The New Apple Box and Crate. For some 15 years the standard

Canadian apple box has been 10" x 11" x 20". Its use has 10" x 11" x 20". Its use has been obligatory for the export trade but not for the domestic trade. In British Columbia many growers have used what is known as the Washington or Oregon box, and what is some times called the American box. They have preferred it to the Canadian box It was decided to make this the standard box for the domestic and export

and how for the domestic and export trade in Canada. Its dimensions are 18¼ v11¼ v 10½. It is an easier box to pack and to ship. During the past four or five years a new package has come into use in Ontario in what is known as an apple crate. This is not a closed package, the sides being composed of slish, and thus it has not come under the elation to closed package. Ethnerts theire

no standard apide crate, and many different kinds of crates have been used. It was decided to reconbeen used. It was decided to recom-mend that a standard apple crate be established which shall conform in dimensions and size to the standard apple box, with sits at least three-quigters of an inch apart. Standard Baskets.

Hitherto, a great variety of baskets had been used more particularly in the sale of tender fruits, such as peaches and grapes. These baskets have been made in many different ways, of different sizes and material A committee was appointed some years ago by the Ontario Fruit Grow ers to take steps to standardize the manufacturers were consulted. It was understood that the manufacturers were in favor of action being taken but their representatives at the meeting at Ottawa objected to the meeting at Otrawa objection to the making of the proposed changes but the fruit growers decided unanimous-ly to disregard their objections as ly to disregard their objections as they felt they were exaggerated and for the most part, not justified. It was decided to recommend that here-after there shall be only two sizes of inter there shan be only two sizes of baskets legal, one an eleven quart bas-ket and the other a six quart basket. The dimensions of the bottom, handle and veneer were all c'ipulated. This will do away with the mine quart basket which has been extensively used

#### Peach and Pear Boxes

The following three sizes of peach boxes were agreed upon, these to be the only legal boxes for use in Canthe only legal boxes for use in Can-ada; one  $18^{\circ} \times 11^{4} \times 15^{4} \times 15^{4} \times 11^{4} \times 15^{4} \times 11^{4} \times$ measure, mant). The legal prune box was set at 18" x 114" x 314".

#### Grades of Apples.

Under the Fruit Marks Act at present three grades of fruit are defined; a fancy, a number one and a number two. It was decided to eliminate the fancy grade as it has been found to no commercial importance have no commercial importance. Number one grade will remain as it has been hitherto. The following definition was prepared for number two grade: "No. 2 quality shall not in-clude culls and shall be sound, of nearly medium size and some color for the variety, and be not less than 85% free from scab, worm S5% free from scan, work house, bruises and other defects, and shall be properly packed." Hitherto the percentage has been 80% and there was no color requirement.

It was decided to establish a new grade to be known as a Domestic Grade. It will be defined as follows: Such fruit shall not include culls, be sound, of not less than near culls, be sound, of not reas that near by medium exise for the variety, set, free from worm holes, but may be elighty affected with weaks and other minor defects and be properly pack ed." It was decided also to estab-lish a number three grade which will and the sumber three grade which will be defined to include no culls and be properly packed. The definition of the word cull was left with the Domin The definition of ion Fruit Division to be prepared. Property Filled Packages.

Properly Filled Packages. Considerable trouble has been caused in the past through ama growers marketing paskings of ring filled. In some cases also, retained packages around cases, and the packages and made a larger make of packages and made a larger make of packages and made a larger make of packages of the solution of the commend that all packages (3.)



Trade increa

VOL. XXX

What the I

T HE whole g undertakin solves, inc they should go i of such action toint conformance ganized farmers business interes Parliament Buil The conference The discussions The farmers has presentation of strong that repr frankly complime which they had

From the outs ness interests has the efforts of th erations among early days of the to-day. In fact, as well as in the to extend their h

This opposition WAVE to sell to the far sell, they sometic farmers' clubs th of making locals ganization and th mant

ment. In Ontario as a chants' associatio forts of the farm vincial Legislatur House of Common operative effort b te boycott manuf. to farmers' organ dealers sometime clubs at a loss 1 creating dissatisfa and breaking up t

These facts are farmers and to fi tural, therefore, th such a meeting as of interest. Probe of interest. From the subject was di on both sides. Wh ring for position, a as to future policy the conference sho ter understanding time

First of all, let Joint Council of Co of Farm and Dairy Winnipeg some of the business int Council was forme strength of the far ada, a conviction si men in the West, I should be made to ing between the fat Representatives of in the west, met an to a joint conferen many ways in whi and this they were They believed that matters likely to be and said so, but we

April 4, 1018.



Should Farmers Embark in Trading Operations? What the Business Interests Think About It. What the Farmers Reply. The Question Debated at a Joint Conference of Farmers and Business Men.-H. Bronson Cowan, Editor in Chief of Farm and Dairy.

HE whole guestion of the advisability of farmers T His whole question of the advisability of farmers undertaking irading organizations among them-solves, including their right to do so, how far-they should go in this direction and what the results of such actions are likely to be, was dehated at a joint conference lead by representail us of the or-ganiced farmers of Outsized and the West and of the bariness interests of Western Canada, held in the Parliament Buildings, Bacching, March 13 and 14th. The conference throughout was an interesting one. The conference throughout was an interesting one. The discussions were conducted in the beat of spirit The farmers have reason to feel satisfied with their presentation of their side of the case, we are a strong that representatives of the bushness interests innikly complimented them upon the many in which they had made and sustained their points.

which they had make and anstained their points." From the outset of the farmers' movement husi-ness interests have not hesizated to attempt to block the efforts of the farmers' to undertake trading op-erations among themselves. This was true in the sarb days of the movement in westers Canada. It is equally true of the movement in contario to iday. In fact, apposition \$210\$ costs in the west as a stand than \$240\$, the distribution to the farmers to the buildings activities.

This opposition has manifested itself in various ways. Manufacturers and wholesalers often refuse to sell to the farmers' organizations. When they do to sell to the marmers' organizations. When they do sell, they sometimes quick lower rates to the local farmers' clubs than to the Central, with the object of making locals disastisfied with their central or-ganization and thereby broaking up the whole move-

In onlarido as well as in the west, the retail mer-chants' associations have stremously opposed ef-forts of the farmers to sociar acts from the Pro-viseal Legislatures, as well as from the Dominion Hone of Commons, that would tend to promote co-sperative effect by farmers. They have directened to beyont manufacturers and wholesalers sho sell to tarners' organizations. Country merchants and the state of the state of the object of the object of the state of the object of the attent of the state of the object of the state of the state of the object of the state of the state of the object of the state of the state state of the object of the state of the state of the object of the state of the state of the object of the state of the state state of the object of the state of the state state of the object of the state of the state state state of the object of the state of the state state state of the object of the state of the state state state of the object of the state of the state state state state of the state state of the state state state state state state of the state of the state of the state s

These facts are well known hold to the organized farmers and to the business intersects. It was na-tural, therefore, that a discussion of the subject as such a meeting as was held in Regima mouth be full of interest. Probably for the first time of the factors on both sides. While there was a good deal inderse on both sides. While there was a good deal inderse ing for position, and while no conclusive designe-ting for position, and while no conclusive designe-ties conference sheuld serve to give each side a bet-ter understanding of the other's difficulties and posi-tion

#### What the Council Is.

First of all, let me explain the character of the Joint Council of Commerce and Agriculture. Readers of Farm and Dairy may remember the meeting held Joint Council or Commerce and Agriculture. Invalues of Farm and Dairy may remember the meeting held in Winnipeg some two years ago by representatives of the business interests and farmers at which the formative and formation. Owing largicly to the growing ends, a convict farmers' movement in Western Can-ends, a convict farmers' movement in Western Can-ded a convict of the state of 1916, that an effort wheel be made to bring should be bester understand-ing between the farmers as. The bester understand-ing between the farmers are business into ends. Boyeen attures of the large business in the ends in the West, in et and decided to invite the farmers, and this they were most willing to do they could here induct to be controversial, such as the tarrif, and said so, but were willing to discuss other matters likely to-be of mutual interest and benefit.

ters likely to-be of mutual interest and benefit. A long its of subjects which they felt they would like to discuss, was pared by them and submit-ted to the stramers. They can be no doubt that at that time they did not bulk appreciate the fact that the farmers in Westers and have some of the ablest basinessmen in the Double have some of the ablest basinessmen in the Double their organi-sations, and that they have grown their organi-sations, and that they have grown to interests. Although they are willing at all times to interests. although they are willing at all times that with men-in other lines of industry in ways that will be mutually advantacean.

with men-in other lines of industry in ways that will be mutually advantageoux. The conference was held in due course. The farmers quickly played have with the proposals made by the business interests. They will the that itery would not acree to confer with the matters such as the tariff and the taxition of land matters such as the tariff and the taxition of land matters such as the tariff and the taxation of land values, which we considered to be of paramount importance, color not be discussed. They showed, also, that they particuly capable of taking care of matters purely a particuly capable of taking care of matters purely approach and an another they and they did not desire against alto an another they had made, raciculary admitted it, and takke they had node, raciculary admitted it, and the result was built domanded by the farmers, the fraut was the Joint domanded by the farmers and the full and the Joint Council of Commerce and Agriculture. The



Sow the seed, and let it slumber, Sow the seed, and let it stumper, Warmed by sun and bleet by rain, Till the days in stated number, Waken it to life again, Then unfolds before our eyes One of nature's mysteries

On the slope where first was showing Just a shimmering haze of green. Day by day the shoets are growing Till no sign of soil is scen; And the beauty is revealed Of a June alfalfa field.

Thicker grown than meadow-grasses Thicker grown than meadow-grasses, Firm and fixed it seems to be, But when morning's swift wind passes, It's a restless moving sea, Wave on wave its fellow follows Toward the upland from the hollows.

When the keen knives cut it down Hope of further yield seeme vain From a spot so bare and brown,— Then it greens and grows again, Thrice and four times thus it keeps Its first promise ere it sleeps.

-ELDREDGE DANISON.

Council is composed of an equal number of repre-Council is composed of an equal number of repre-sentatives of the big business organizations of the west, some of which, like the banks, railway com-panies and manufacturing industries, have their headpanies and manufacturing industries, have their hean-quarters in the oast. Several meetings of the Coun-cil have been held during the past few years and beneficial results have followed from the meetings,

No. 14

#### The Regina Meeting.

The meeting in Regina gave clear evidence of the progress that has been made towards bringing about progress that has been made towards bringing about a botter understanding between the two sides. There was not the slightest indication on the part of the business interests that they wanted to help the farmers. Inst'ud their whole attitude showed clearly farmers. Inst'ed their whole attitude showed clearly that they now sealue that the farmers are perfectly well able to ake care of themselves. On the other hand, the armers were not so suspicious as they were two years ago, that the business measures try-ing to put something over on them, and thereby possibly weakening the farmers' movement. In the interval but into a how now here movement. interval both sides have grown to respect and have greater confidence in each other

#### These Who Were Present.

First of all, who were present? The farmers were Pirst of all, who were present! The farmers were represented by some 25 members of the Canadian Council of Agriculture who had been its evasion the two days previous, in the offices of the Sine the Cooperative Elevator Co. Those present factored H. W. Wood, of Calgary, the President of the Chief of Agriculture and of the United Farmers of Alberta J. A. Maharg, M.P., of Moose Jaw, the president of the Saskatchewan Grain Growers' Association, and the Emission of the Section of the Section of the Section of the Section of Constraints, and Cooperative Elevator Co. Lim-ited; R. C. Hendeval, T. the president of the Mani-tobs Grain forwers' 47. the president of the Mani-tobs Grain forwers' 47. the president of the Mani-vice-president of the United Holm, C. Bice-Jones, the vice-president of the United Holm, T. States, and of Winnipeg and Calgory J. M. Growers, Limited, the manager of the Seskitchewan Coopera Hiddell, the manager of the Seskitchewan Coopera Hiddell, valor Company; J. J. Morrison, of Toronte, the Blow-vator Company; J. J. Morrison, of Toronte, the Blow-vator Company; J. J. Morrison, of Toronte, J. K. Kerniphan, of Goderich; and H. B. Cowan, of Farm and Dairy.

The business interests represented were the banks, The business interests represented were the banes, railway comparises, hona and trust corporations, the Retail Merchantz' Association, the insurance com-panies, baseris's of trade, and other similar organiza-lons. Dr. J. B. Rutherford, former Dominien Live Stock Commissioner and now in charge of the Live Stock Commissioner of the Canadian Pacific Railway, with headensaries of the Canadian Pacific Railway, with headensaries of the canadian Pacific Railway, with neadensaries of the canadian Pacific Railway, based of the state of the canadian Pacific Railway, based of the state of the canadian Pacific Railway, with headensaries of the canadian Pacific Railway, full in all his rulings.

#### Farmers' Trading Organizations

dition. After this, again, when the surface approaches a crumbly texture, the drag may be used very ancceasing the

### Raising Calves Without Skim Milk

#### The Methods of a Cheese Factory Patron By BRUCE P. WESTCOTT.

BY BRUCE P. WESTCOTT. UCH is being said these days about the scar-city of dairy cows, and there is a constant inquiry for good cows from all parts of the M

What is the cause?. First, the high price paid for veal at the stock yards; second, the high prices paid for milk at the choese factories and condenseries. These together have sent a large percentage of the heifer calves to the veal market in the last few years, and I dare say that, unless we, as farmers, get busy and raise our helfer calves, there will be a greater scarcity of dairy cows in the next few years than

I have talked with a number of farmers this winter I have takked with a number of farmers this winter in resard to this matter, and they say, "Oh, we are not raising many calves this year: veal is so high and we are sending our milk to the chesse factories, Milk is too high to feed to calves." They also say, "We can get sl5 for a calt three weeks old; and that will almost buy a yearling." But what kind of a dairy cow will that yearling make? I at most speak-

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they can drink often. It is surprising how much water they will drink. Most farmers full to realize that the calf requires water at this yours gase. Do not misunderstand me, and think your calves will be quite as fat and sleek as those fed on milk, but take good care of them, and when they are three months old they will be just as growthy as though they had been fed on milk. At jess is such has been my exnetience.

my experience. Never Had Case of Scours. I have never had a case of scours when calves were fed calf food, but young calves that have con-tracted the ailment can be cured by taking away all the milk and feeding nothing but this food. The germ cannot live without milk. It has been my ex-perience that calves valued in this way develop into cows with splendid digestive organs. They have good, large barrels and will consume a large amount of rough feed.

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## Grain Ration of a Dry Cow

### To Ensure Results Let It Be Liberal

#### R. M. HOLTBY, Port Perry, Ont.

HAVE often been asked just why I advocate heavy HAVE often been asked just why I advocate heary grain feeding to high producing dairy cows when they are dry. My answer is, that I take the stand I do because my experience has taught me that it is profitable to feed a good grain ration to be öry cows. One of m first experiences was with a cow of mature age that I had purchased. During her first lactation period with me she gave 16,000 ho. of milk in Record of Performance with 62 he. as her production in her hest day, and 33 hes, in her yords are the function of a set of the first her the first here the following dry metod. I follow a set of the first here the following dry metod I follow here the first here the following dry metod I follow here. day. Before she freshened she had not been led any grain. During the following dry period, I fed her as high as 20 lbs. of grain a day—a mixture of onts, bran and oil cake. When she freshened this time (Continued on page 8.)

Snowdrifts as they had Them in Wentworth County

The snowdrifts speak for themselves. Incidentally, we might remark to team belongs to one of Our Folks, Mr. Wm. Scoble, and is engaged in unsatisfactory form of farm work-drawing water for the stock.

ing of the man who raises nurshred cattle but of the ing of the man who raises purebred cattle, but of the farmer who is keeping a high grade herd and using a good purebred sire; the only kind any of us should use. The man raising purebred cattle will raise all his helfer chives even though he has no skimmed milk. He will feed them the whole milk and be well paid for it.

#### In a Cheese Section.

, have always lived in a cheese producing locality . have always lived in a cheese producing locality where skimmed milk is not known on the general run of dairy farms, and where the raising of our dairy calves has been a very important, and some-times trying problem. I have made this thing a study for 16 years and have raised all my beifer calves without milk; namely on calf food. I have raised good calves thit made good cows. Others can be an early the theory will be sure to get a good on a data to be the theory will be sure to get a good

standard brand advertised in the farm and dairy papers, the tarm and dairy papers, and follow directions very carefully. Or they can use home-prepared calf foods, such as they have tested out and found economical and efficient by the experiment stations.

Give the calf whole milk Give the calf whole milk for about two weeks, then de-crease the milk and add a very little gruel made from the calf food. Thereafter continue to gradually in-crease the calf food gruel and to decrease the milk until the to decrease the mix until the calf is receiving a full feed of this gruel. Now this is the critical time, and, if you can make this change without the calf realizing it, you have won the battle.

Get the calves to eating Get the calves to eating alfalfa, silage, and a grain ration just as young as you can. Do not overfeed on the calf food gruel and be very careful to keep all pails sweet and clean. I find that one of the heat newsarilyas one of the best preventives for indigestion in calves is keeping fresh water where

The Solit Log Drag

100

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#### Road Making with a Drag Construction and Use of Split Log Drag

THERE are many miles of roads which must be

THERE are many miles of roads which must be maintained by some means, more or less in-expensively. On the Dominion Experimental Farms, the split-log drag is found to be one of the most useful implements for this purpose. It is now in use in many localities and an increasing mileage of the rural highways of this country is being kept in repair economically by, the use of this simple imple ment

#### Construction of the Split-log Drag.

A dry, sound red cedar log is the best material for a drag, the hard woods being usually twenty for that tors are from 10 to 12 inches in dynameter, and carefully sawn down the middle. The heaviest and best sink bould be selected for the centre, both flat sides to the front and set on edges 30 inches apart, stying the back half a set-back of 16 to 18 inches at the right end, so that when the drag is drawn along heat an angle parallel to the ditch on the right side of the road, the end of the back half will be directly beind the proper working of the direct two cross-pieces are wedged in twoinch auger-field through the slabs, and on the right hand of the slabs. This is of great value in strengthenians of the site. This is of great value in strengthenians and stiftening a clay or grawt of us advisable to A dry, sound red cedar log is the best material for

In working a clay or gumbo road it is advisable to put iron on the lower edge of both flat sides. Handles put iron on the lower edge of both flat sides. Handles may be attached to a piece of iron similar to a piece of waggon tire, the irons to be hinged to the back of each end of the front side. By pressing the handles the drag could be raised, thus depositing a load of dirt which is desired to fill a hollow or increase the

dirt which is desired to fill a hollow or increase the crown at some particular apot. A platform of inch boards held together by three cleats should be placed on the stakes between the slabs. These boards should be spaced at least an inch apart to allow any earth that may heap up and fall over the front slab to slft through upon the road gain. The end cleats should be placed so that they will not rest upon the cross stakes, but drop insui-tion. These cleats should be placed so that they will not rest upon the cross stakes, but drop insui-tion. These cleats should be placed so that they will not rest upon the cross stakes, but drop insui-tion. These cleats should be placed so that they will not rest upon the cross stakes, but drop insui-tions the state of the state of the state of the state weight may be added if necessary, but it is seldom needed. needed.

#### To Use the Drag.

To use the Drag. To use the drag, stack a chain to the left cross piece which is behind the front slab, running the other end of the chain through the hole in the front slab near the right end. It is a mistake to hook this end of the chain over the front slab as in the case of the other end, for when the drag strikes a store or snag there is great danger of throw through the hole in the alab as suggested, this danger is entirely obvisited. obviated.

obviated. The operation of the drag is very simple, though there are many fine points that may be learned by experience. For ordinary smoothing purposes, the drag may be drawn up and down the road one or two drag may be drawn up and down the road one or two drag may be drawn up and gown the road one or two rounds, commencing at the edge and working to-wards the centre. Usually it is drawn at an angle of about 45 degrees. For the last stroke or two the drag may be drawn backward with the round side of the siab to the front and with comparatively little angle

agle. There are two stages when roads will drag and one There are two stages when roads will drag and one when you cannot do a job satisfactorijs. The first stage is when they are in a very sloppy condition in spring or in other seasons after a heavy rain. A road may then be shaped up wonderfully well, and after the surface has a chance to dry a little, before it is cut up with traffic, it will make a smooth, fine road. Dragging at this stage fills ruts and sends the water to the ditches. After this soft stage, comes a slicky sage, when the mud will roll up under the drag and the road cannot be reduced to a satisfactory condiApril 4

British Col

Why Not

HE hog in grain ea was mad as he became and gradually a grain-eating

been so cheap would return a

in the last two

of hog feeding and in the con considered mor

general use of

home-grown prive can take tow

The clovers a

Western States turing is practi the experience a to red clover a

to red clover a and amount of tion, for instance will pasture froo 125 hs. per hea ture 15 to 20 h Affalfa comes or if kept from he nirogenous form in the fall. As alfalfa bay, espu-

alfalfa hay, esp other fodders. In pasturing should not be to started, should more so heavily the the same time fi

grow large enoug to use the alfalfa

to use the alfalfa be divided, and a growing. The cor-enough pastures of the areastance of the belt States, where alfalfa) by east few days apart, oo the other is being ture in furnished Clover and alfa ing hoos without a

Clover and alfa ing hogs without g crope. In all case parture a supplement to Nebrasica, hogs fee are daily gain of of .34 hos, when of corn. When or along grain may freders at all time Prof. E. S. Archibe

Pat

tim.



This typey Jersey bull calf was first in the Junior Calf Class at the Guelph Winter Fair this year. He is from the well-known herd of Jas. Barges, of Edgeley.

igh



A Healthy Dairy Herd in a Province to which no Purebreds may be Imported Unless Tuberculinfree British Columbia, although a comparatively new province to which its preasures may be imported three students the internatively new province to eater dairying, is already becoming famous for the excellence of her-dairy herds and the progressiveness of her dairy legislation. Her rigid anti-tubercular laws, no less than her moist climate and toxariant pastures, are placing B. C. dairying on a solid foundation.

# Hogs Are Not Naturally Exclusive Grain Eaters

Why Not Try Pasturing Hogs? Some Suggestions as to the Merits of Different Pasture Crops That Will Reduce

The bog in his natural state was not an exclusive grain eater; plant and animal life in any form a made use of as lood by the wild hog. But so here domenticated the hog. Ins been de-pired of the domenticated the hog ins been de-ind gradually we have to be regard him as purely a crain-state animal. How to be regard him as purely been so cheap, comparatively past, too, train has would return a profit on an exclusivity. In the hogs would return a profit on an exclusivity in the state style of hog feeding has become a doubted him style and in the coming season pasture for hogs will be considered unove carefully than ever before. A more general use of proper pasturage in summer and of we can be profit on writer, is the longest step we can take toward reducing the cost of port produc-ter.

#### Pasturing Clover or Alfalfa

Pasturing Clover or Attaits. The clovers are the prime pasture crops. In the Watern States of the United States, where pas-tions is practiced extensively, similar is shown by the states of the united States, where pas-tion of clover of its users to be somewhat superior and amount of fad times to be somewhat superior in the states, where pasture, both as to or unity pasture from eight to it is used and of shoats. While comparing will make a green lower from the special from the same of some very freedom interactions besiding will make a green lower freedom interactions generally the last entiting, exceeds all the pasture.

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sists of two parts each of ground outs or barley, and wheat middlings, with the addition of one part ground corn. This is an excellent growing retion, but as mimals reach sufficient weight to finish, the corn may be materially increased. Little corn is available greeent, but by the time hogs are passime, it may be abundant. Skim milk, ied sep-arately from the grain, will reduce the consumption-of the latter.

#### Rape for Pasture.

In the greenter part of Canada, and on even the best farms, there part of Canada, and on even the the regular parterns times during the season when the regular parterns times during the season when a quick growth to pasture the the transition of the angung growth of pasture the the transition of the amount of forage per-sere is furnish a large amount of forage per-sere is furnish a large amount of forage per-sere is and the season is one of the best forage cross for home. Any case is one of the best forage cross for home. A set the Vincomain Experiment Station, drew the following constitutions of the set for the set of the set of the set for the set of the set for the set of the set o

conclusions: "With pipes from four to 10 months old, an acre of rape when property grown has a feeding value when combined with a ration of four and eding value when to 2,456 los. of the mixture of these grain output "Rape is a better green forage for growing pip than good clover pasture, the pigs fed model having make an average 100 lbs. of gain on 32.5 hs, losg grain than was required by the pigs fed on clover pasture.

<text><text><text><text><text>

Other Pasture Crops. Ordinary blue grass pasture, as is found quite com-monly in Ontario, and to some extent in the other provinces, especially in columction with white or Dutch clover, makes an excellent pasture for hegs

(5)

md if they are allowed a fairly large area over which the to necessity of re-seeding. There is, however, which the necessity of re-seeding the necessity of the necessity

The time time time is perion of their sustemance. Here which derive a perion of their sustemance from pasture will make cleaspic gains than hors which are entiredy make the hors are healthy advantage in passing fed. There is an additional drantage in passing the static horses are healthy additional the static static static static the difficulties in adopting passing feature. On the storage farms in Canada will be the lack of suitable in any a fence 3% to 39 inches high is sufficient to hold hogs on pasture if they have a fairly good range.

Thus. It does not price that matters so much now, it is food. It the consumer will not pay a price which leaves a fair marging that price the producer is forced to stop producing that price that has a file by any Board of Controllers yet extant. The Thot leave of supply and demand cannot that it and the price control is get the forcer farmers where the dustion. The only solutions for the feed problem is dustion. The food, and to get more in 1918, farmers may found to help and deserve an assumation that price control is not going to be such as to force them in the end to prime the is a loss. An unusually good seasen, more sets. The is going it of ark treatment, are all the farmer each. The going in to such as efforts.—Farmers' Advocate.



(8)

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A Profitable Flock

J. ADAMSON, of Laurel, P.Q., is well satisfied with the reabout 300 birds. In a recent issue of

\$403 50

1917.         1917.           \$74 pullets         \$1 each         \$274.00           125 yearings         \$1 each         \$125.00           10 2-year-olds at \$1 each         \$10.00           25 cockerels         \$2 each         \$500           166 market cockerels         \$500         \$7.50
Value of increased stock\$133.00
Expenses. Actual cost of feed\$1091.75 Coal oil and other expenses 73.73
E1145 53

Value of Income. Income from eggs ...... \$963.96 Market value of eggs used at

53.78 home Sale of market poultry . Sale of stock, ohickens, hatching eggs 205 08 \$1636.40

Profit over cost of food, etc. "From above figures one can see that our net profit was \$603.87 for the 304 birds, or \$1.95 per hen. Now this is not as large as some claim, and I is not as large as some chain, and a think it can easily be bettered. We hope to better it this season by sav-ing our early chicks, and instead of ing our early chicks, and instead of having to write up a loss for Septem ber and October eggs, we hope to make a profit. Many others could considerably increase their profits by taking advantage of the summer visi-tor trade, especially by crate-fatten-ing the old hens and culls and disposing the old hens and culls and dispos-ing of them at good round prices, and also watching the markst. The Jewish population pay fancy prices for nice fat hens on festival occasions. (Two tat nens on restuval occasions. (Two weeks in the fattening crates make very nice eating fowls and certainly improve the look and juality, always a profitable undertaking.)"

#### Cooperative Egg Farming

OOPERATIVE egg farming, as carried on in parts of England, gives a method for disposing of eggs to a good advantage. It is a plan especitrict, as, no matter how few dozens they may have for sale, the same mar-ket rate can be realized as if they had a large quantity to ship. A similar plan has been also tried in Canada in connection with the egg circle move-

ment ment. The Framlingham and District Co-operative Society, Limited, of Suffolk, Engiand, takes the eggs from the farmers, tests them, and them ships the entire lot to market, giving an of-ficial stamp of guarantee of quality-which finds for them a ready make.

The Society receives eggs only of good size and quality. Each egg must weigh not less than two ounces, and a deduction of two cents in price is made for every ten coming under the weight of two ounces each.

Each farmer is supplied with a small Each farmer is supplied with a small rubber stamp, with which he must stamp each egg before it will be re-cover dor shipment. All eggs comings to the shipping house are tested by exports, who can teil pretty closely the age and condition. The exacteness in indecoder has been the means of the Society has been the means their stock, and mate tre condition error whet stock, and mate

for good sized eggs, and they are care-ful to bring to market only the strictly fresh article

Each offering stands upon its own merits. There is no limit to quantity -quality alone being the considera-

tion. A dozen or a hundred eggs will receive the same kind of attention, and tion. A dozen or a minimized eggs win receive the same kind of attention, and given the same kind of attention, and will a thousand, provided, of course they are properly stamped by farmer from wines yard by a ve come, and meet the sectements of the official test of the eggs, no matter the official test of the eggs, no matter for any second the best prices obtainable. In Paris markets the eggs are dated, and one pays according to the fresh-neas, so that it is possible to be cer-tain of newly-laid eggs; or, if it is necessary to be economical, yester day's eggs, or the day's before, are offered at a reduction.

day's eggs, or the day's before, are offered at a reduction. Here our own farmers and poultry-men can find an object lesson, especi-ally in communities more or less re-mote from a good market. The com-mon practice of farmers carting their eggs to the village store to be traded off for groceries, is an unwise act for both the farmer and the consumer. In the first place, the farmer is indif-ferent as to the age and condition of his eggs. During a scarcity he will save up his eggs until he has a suffi-cient number of dozens to make it an object to 'go to town'' if a society would exist in the locality that would test the eggs, the farmer would soon test the eggs, the farmer would soon learn that condition meant money for Jearn thal condition meant money for him, and would take greater care. By such a practice there would be less bad eggs on its market, and if this cooperative principle would become general there would soon be a scarcity of preserved or pickled eggs, between the market, and the housewife would so longer look upon an early who have been been been been been been been so longer look upon an early who no longer look upon an egg with sus-picion whenever she came to use one. MKB

#### Housing the Laying Flock

Trousing the Laying Flock Taky Burt ead in the United States covered an old as min into a thread the state of the state of the states term pattern bases with little states man stars, which could be made into a thread store poultry house similar to the one described. What do you into the states to be a state of the states of the states read of the states of the states read to be a state of the states read to be a state of the states the laying fact in the states of the states the laying the summer B. P. B. York Co., The states of the states of the states the laying the summer B. P. B. York Co., The states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states the states of the states of the states of the states of the states the states of the states of the states of the states of the states the states of the states of

I have never seen chickens kept for I have never seen chicken about of a long period of time with satisfaction in two or three decked houses. At the present time I would hesitate to advise any one to try such a scheme in the light of what experience I have had with one and two decked

You can keep birds indoors the year round, but it requires much more year round, but it requires much more attention, and extreme attention to green food. With the ordinary per-son I would not advise it. If you can keep your house clean and an abund-ance of green food and look after the ance of green food and look after the birds throughly and be sure that the house does not get very hot, that is, about 85 degrees as a maximum, I think probably yon could keep them indoors entroly with a fair degrees of success.--Prof. W. R. Graham, O.A.C., Guelph, Ont.

#### When Combs Lop Over

Many opokerels of the Mediterranean class, especially Minorcas, are dis-carded because their combs lop over carded because their combs log over while they are young. If a big-combed bird be a little out of sorts, his comb will at once drop. After he comb generally stands erect, supeci-ally if the base of it is thick and strong. If cockerels of this class are forced toor nucle, supecially if eryon a forced too much, especially if given a lot of soft food, their combs apparlot of nott food, their combs appac-motive loss firmness. When a comb is sourced to fail, the bird abottle be siven a cod-kerr ofl capanities at night, and fod entirely on grain. In some cases, cockerrel' combs are so weak at the base that notking will make should not be discarded, for if they are otherwise good they will be valu-able for pullet-breeding.



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#### Neighbor Objects to Bees

KERP bees in my orchard, which is I bitween my neighbor's house and my own. Can my neighbor make me keep the bees a certain distance from his house, it being on the line between un' Am wintering 50 swarms, and the orchard is the only shellered place 1 harder, T., but the only shellered place 1 harder to a be a start of the only shellered place 1 harder to a be a start of the only shellered place 1 harder to a start of the only shellered place 1 harder to a start of the only shellered place 1 harder to be a start of the only shellered place 1 harder to a start of the only shellered place 1 harder to a start of the only shellered place 1 harder to be a start of the only sh

ing your bees in your orchard, as stated in your enquiry, nor are you re-quired to keep them at a stated dis-tance from your neighbor's premises:

Squirt Gun or Hose and Funnel

Such that the set of t Any of these can be purchased from dealers in veterinary instruments, or the hose from a dealer in rubber goods, and the funnel from a tinsmith. We do not know what the cost will be now, as like most things, it has increased.

#### Chronic Cough

HAVE a mare eight years old who has been coughing for the past 12 past 12 past 14 past Que

Chronic coughs are very hard to treat successfully. Her teeth may be at fault. It will be wise to have her at fault. It will be wise to have her mouth examined by a veteriaarian, and if necessary, her teeth dressed. Give her every morning one and a half drams of solid extract of bella-donan, one dram powdered, optum, 30 grains digitalis and half dram gum emphor. Add sufficient oli of tar to able checking. Boll in fluence page and make plastic. Roll in tissue paper and administer as a ball, or dissolve in warm water and give as a drench Moisten all she eats with lime water.

#### Bots in Horses

W ILL you kindly give me a treat-ment for bots in horses?-A. T., Oxford Co., Ont. Bots in the stomach of a horse that

has been exposed to the attacks of the bot fly last summer, is a normal condi-At a certain stage of maturity become detached from the mution they cous membrane of the stomach and pass out in the faeces. Some of them live to develop into gad flies to de-posit their eggs on the legs and jaws of horses the next summer. The idea of treating horses "For Bots," is as inof treating horses for 100s, is an in-rational as its ancient. No treatment will dislodge the bots before maturity. They are attached to the mucous membrane of the stomach by their tails, hence the common idea that they "cat holes in the stomach" is totally wrong. They do no harm except in very rare cases, in which they exist in very large numbers, and let go in large numbers, are formed into a ball and block the passage out of the stomach. This condition produces the symptoms of intestinal obstruction, and unless the mass becomes displac-ed, will cause death.

#### Computing the Butter

How many pounds of butter are of butter fat, and please explain the method of computing the butter.-D. G. R. Stanstead Co., Que,

There are three different methods of computing the butter used from butter fat. In commercial work, it is common to add one-sixth of the number of pounds of butter fat to de-termine the amount of commercial butter. One-eixth of 362.38 is 50.396, and the number of pounds of commer-cial butter, would, therefore, be 422-

776. In computing the butter records of the Holstein-Friesian breed of cat-tle, the assoriation works on an 80 10, the assortion works on an 80 per cent basis. "Part is, they around that buttor is 80 per cent. fat, and in computing the buttor, they divide the member of pounds of fat by four, and add bhe result to the pochads of fat. On this basis 363.38 pounds of butter fat would figure out to 452.975 pounds of buttor. The Ayrabire baceders on the other hand, figure with the 35 pet cent. heads, and in this case, the number of pounds of fat would be multiplied by one hu. fred and divided by eightlydre, which would result in the set. by eighty-five, which would result in 426.33 pounds of fat.

#### Grain Ration of a Dairy Cow (Continued from page 4.)

command rous page 5.) she milked up to 55 Das. a day and made an R. O. P. record of 15,760 Das. of milk in the year, and ahe seemed-to make the greater record with greator case. During her second period she was shown in the Ottawa. Dairy Test. After this experience 1 would not be afraid to feed grain to day come.

for cows. In an experiment down in the States, several cows were pol on a maintenance ration for some daya. They averaged 30 Hs. of milk a day, and at the end of the test weighed 400 Any metalogical or has tonix weighed 469 and the first of the tonix weighed 469 illustrates what happens to many fresh cow that come in when in fair feach. They milk well for a time under any conditions, and accordingly little grain is fed. When the bodily reserves begin to be used up, Nature calls a halt, the milk flow sizeform, and then the dairyman starts to feach grain. The first effort of the odd and grain. The first effort of the odd and the size the the result will be an un-stifuctory milk flow. The time to start feeding grain to a cow is when abe is dry, and after fresheaing she abouid be gotten back on full grain she is dry, and after incentum, are should be gotten back on full grain rations just as soon as she can be safely worked up to it. I believe feeding concentrates even concentrates present conditions.



## On Searching index to the vil-lage to get some figs and bran, for flour and beef and beams and bacon, I'm saving all 1 can. The day was bright; the sun was shining in his accustomed place as at the village store I halted and wiped my smiling face. Then came the merchan', sad and gloomy, "Oh grin not thus," he cried. "We're faced with famine, war and earthquakes and other things be-The times are out of joint I'm side. thinking; the garbage men have struck; the price of glutan feed's still rising; the world has run amuck! You

don't grow half the trops you uster when you were young and smart. The kind of punkin pies they're baking would fairly break your heart."-Then with a sob he fell down cellar and bust his collar bone. And all the quivering echoes handy took up his ghastly moan

With tear dewed eyes I guit the building, but seated on the stoop I found a politician acting as though he had the croup. He pawed the air like colt with colle, he tore his hair and wailed, "Old Russia's surely up against it, and Irish peace has failed. I don't see nuthin' now but ruin-" wept But ere he ceased his bray, 1 aloud and rent my garments, then homeward took my way. In this distracted state of feeling 1

called on Uncle Jim, where whistling called on Uncle Jam, where waisting like an English sparrow, he sawed an eim hmb. "Oh James," I cried, "Good Uncle Jimmy, what think you of the war? What can the farmers do with prices of mill feeds where they are? I fear me that our hogs will never look fat and sleek again, for balsam boughs and musty stover can't take the place

## April 4, 1918

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#### April 4, 1914

of grain. Whit

I'll kill my pi make pot roas But Uncle Ji as cheery as aired my dark sawing wood, when I had fin times are dark, little homestea mank? The f

aided, to bring propheried a d gave birth to W statesman. Ar find that only ( inaily rule m make our corne all day long, a home at evenin a song. There usward, but if keep some milk keep on making

Then home I ed and sowed a the chickens th have some eggs whistled like a cheery note, un drove my pigs t heed my corn an produce on thre submarines.

Now, when I liver's not worki him to some vi him sawing wo will keep a-smill ness and plow t garden, will win

10

#### Some C

ERE are tw in 1917 th note. First heborhood of had an average y and 231 lbs. fat, 1 of 4,097 lbs. mil iderably much. This is a out, better care a ef the best cows ply by being bette

average of 11,811 Ibs. fat; the incre milk and 199 Hbs. his and 199 Hos. ly double. This is and care and an is this hard in 1915 and in 1916 her re pounds; she took the Ottawa Winte work leads to goo

It will evidently of what cows are then what they ca Just write to the milk record forms get full satisfactio from improved co make each cow pa

Young Arthur a lesson in grams

Woman, my b speech; she is all father

Bobby. And all into the ark 'cept Elsie. Why did 1007

Bobby, 'Cause h OWD.

They had lost t new and expensive "There's a sign,

the right road?" With his flashing

the Poor-house." "Yes," he answer right road and we



These engines are the perfected product of years of sludy and es-perimentation with Internal Com-strated success on thousands of trans throughout Canada. Get one this season and lei It replace your and its ruming cost is lively, as it runs on cosl oil or naphtha. We also manufacture a full ine of WINDMILLS, Grain Grinders, Same Scancete Mixers, etc. Catalogue of any line mailed on request.

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#### April 1, 1918.

of srain. What use is there to keep on farming? I think I'll sell my flocks: I'll kill my pigs and with a hatchet make pot roasts of my cocks." But Uncle Jim just kept a whistling

as cheery as he could, and while I aired my dark forebodings, he went on saving wood. "My son," quoth he, when I had finished, "I know the times are dark, but why not make your little homestead come up and toe the maxe? The failure of mankind, unaided, to bring in peace on earth, was prophesied a dozen ages ere Mrs. B. gave birth to Wm. Jennings, far-famed statesman. And in The Book you'll find that only One will e'er be able to justly rule mankind. Yet we can Yet we can make our corner brighter by grinning all day long, and when we gather home at evening, we might e'en sing a song. There may be famine headed usward, but if you'd know the way to keep some milk in baby's bottle, why

keep some mins in early sortie, way keep on making hay." Then home I went with heart uplift-ed and cowed a field of wheat. I fed the chickense that our soldiers, might have some eggs to east. I worked and whistled like a trojan and sang my have not unit! my nelebhors ful cheery note, until my neighbors fell upon me and tried to cut my throat. I drove my pigs to verdant pastures; I hoed my corn and beans; I shipped my produce on three vessels-all sunk by submarines

Now, when I meet a chap whose hver's not working as it should, I take him to some virgin forest and start him sawing wood. The nation that aim sawing wood. The mation that will keep a-smilling and practice frugal-ness and plow the fields and hoe the garden, will win the war I guess.

Sam Kay

#### Some Good Results

ERE are two dairy herd records H BEEE are two dairy area recorvas in 1937 that are worth careful note. First, a herd in the pshborhood of Oxford Mills, Ont., had an average yield of 9,008 lbs. milk and 331 lbs. fst, an increase from 1917 of 4,977 lbs. milk and 114 lbs. fst; conformable more than twice as er considerably more than twice as much. This is attributed to weeding sut, better care and better feed. One

est, better care and better feed. One cow produced as much milk as two of the best cows the year before sim-ply by being better fed and cared for. The second hard, six cows, gave an average of 1,1315 Be. milk and 369 Be. At; the increase is from 6,338 He. milk and 139 He. fat in 1315, or near-ble. This is the result of feed, and care and an AI sire. One cow in this hear in 1315 gave 8,817 He. milk, and in 315 her rescord was over 15,000 use and in 1916 her record was over 19,000 pounds; she took a high standing at the Ottawa Winter Fair. Hard record work leads to good results.

work leads to good results. It will evidently pay to keep track at what cows are doing new, and note the what they can be induced to do. Just write to the Dairy Division for milk record forms, they are free, and set full satisfaction and better returns from improved cows. Test the herd, make each cow pay.--G. F. W.

Young Arthur was wrestling with a lesson in grammar. "Father," said he, thoughtfully, "what part of speech

"Woman, my boy, is not part of speech; she is all of it," returned the father

Bobby. And all the animals went into the ark 'cept the dog. Elsie. Why didn't the dog go in,

1007 Bobby. 'Cause he had a bark of his own

They had lost their way in their new and expensive car. "There's a sign, dear. Are we on

the right road?" the rank road " With his flashlight he read. "To the Poor-house." "Tes," he answered. "We're on the sight road and we didn't know it."



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dant crops.

int, interf. interf. ithus (Chinese Pinks), intto, Sweet.

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-Grades 2 and 3 contain some alsike, with traces of ck, rib-grass cockle, but none of the more pestiferous beds. For growing seed we recommend our Grade No. 1.

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ommended. Write us, placing your order at once. Prices are as follo Grade No. 1, per bushel Grade No. 3, per bushel Grade No. 3, per bushel White Silasson Sweet Clover, per bushel

WINNIPEC

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## April 4, 1918

grivy, or whe farm house are such locations ed on to yield by filth draini becomes satu products. The cass pits, and a few instance of such wells p tilizing value excretal matter The lesson

Don't sacrifice locate the well 50 to 100 yard possible source bored or drilled soated source, t junction of the ly to give the p well, line it to feet with conc four to six inch sure the excluse surface layers of roundings of the from the accus preferably in th sion to carry off the pump, so th the well, and so the well that flow in, and min are excluded. these pure wate windmill, gasol force pump will enabl piped to the ho thus securing r farm buildingsblessing that n perienced to be



saw standing mute testimon concrete for buil erete silo and ba ing alone, and u wreckage of a but ing of a barn in fair in any case comes to rebuil; a concrete s'io i both standing inta ness as usual," t more encouragem ahead and rebuild

While spending an Eastern Ontari tieed that he had gine for running i I also noticed that pulley on either t separator and aske aged to start the a speed as it was the separator. H start the separato belt off. Then who reached a fast en on the belt and th and that starts the in this was that it a person to use a cranking the crea was in cranking a

One of the more able things while country during the followed the extensi was the great num skating on the fields since such an opport has come to the small ever, while ice on a fine thing for th not looked on with small boy's father. I conditions as a rule are not good for fail the following summ my mind, how when

## For Your War Garden "Till the Boys Come Home." The Red Triangle is Taking Home to the Boys. By John L. Love RENNIES O N many a track of forest land laid waste by fire is to be found growing a crimson flower. This plant is known in some localities as the "fire weed," owing to the fact that it is said to spring up in the wake of a huge conflagration. There is another bealthy growth SEEDS nuce contagration. There is another healthy growth springing to life in the track of the awful configeration in Europe to-day, and it is known as the "Red Triangic," the crimon sign of the Y.M.C.A. Wherever the Khaki goes, the Red Triangle follows. In some cause this **E**VERY person whose conscientious desire is to help the cause of the Allies, will plant a garden this year. The food situation is more serious than realized and unless each back Triangle follows. In some cases this insignia of comfort and cheer for the troops keeps almost abreast of the charging columns. At Vimy Ridge, for instance, the "Y" man was on the job with his coffee stall before the place of yard is cultivated, actual hunger may be felt before the close of the year. To help beginners get the best results from their gardens we have made up a War Garden Collection of Rennie's high standard seeds. Plant these—you can then be sure of abun-War Garden Collection War Larden Collection This Complete Galecies will stock a Mederate Garden. REANS, Dwarf Stringiess Green BEAT, Round Red. DEET, Round Red. CORN, Early Bears. CUCUMBER, Silcing. CUCUMBE

ters, who spends most of his time going from camp to camp in the interest

eign strand than in another. "Till the boys come home" the Y.M C.A. takes home to the boys. At the sign of the Red Triangle the lonesome lumberjack, pining for his "ain coun-trie," can find American and Cana-He can purchase, diam magnitudes. He can purchase, for a nominal rate, numerous varia-tions of camp diet, such as hot and coid dirikas, sandwiches, pastries and cakes. Any profits are paid over to a Company Fund, which devotes them in the main to defraying expenses connected with the Y.M.C.A. work. dian magazines. Entertainment Provided.

Concert parties from the nearest towns make frequent visits to the camps, and the social and entertainment features include cinema shows and dances.

Checkers, chess, dominoes and let-ter-writing fill many an evening's

The Y.M.C.A. and the Canadian Forestry Corps

battle flag is furled.

or village.

hearty.

Over two hundred men in different

units are taking specially selected courses related to forestry work. For this a small fee is charged, and the balance is divided between the For-

estry Corps Headquarters and the Y. M.C.A. Classes in English and arith

metic are also conducted by teachers from local schools where camps are in sufficiently close proximity to town

Amongst the most enjoyable and best attended functions at the Hut are

the Parade Services on Sunday morn-ings, and the Song Services in the evening. The latter is a quite infor-mal gathering, and as the men choose

What the Boys Think of It. In what light the men of the Canadian Forestry Corps view the work of the Red Triangle is seen in the

of the field triangle is seen in the large numbers that throng the build-ing every night, making full use of the privileges provided. The Officers' estimate was express-

the Onicers estimate was express-ed by Brigadier General McDougali, Director General of Timber Opera-tions, London. Writing to Lieut.-Col. Gerald W. Birks, the General says:

"This work of yours, which is edu-cational, inspiring and entertaining, has, I feel sure, helped us in our pro-

has, I feel sure, helped us in our pro-duction, because it has bred in the men a healthier outlook on life in general, and thereby been the means, indirectly maybe, of stimulating them to greater efforts." Touching the lives of these men as

routing the under of heres here so initiately on their spiritual, mental and physical sides, the work of the Canadian Y. M. C. A. has earned the over-increasing gratitude and unsain-ed support of all who would see not only honor and glory come to the flag when over this moders. Amound the

wherever this modern Armageddon is being waged; but also hold that no ser-

vice, no sacrifice, is too great to ren-der the men who by their supremely

der the men who by their supremery unselfish labors are giving Canada a "place in the sun," and a foremost seat in the councils of the great civilized nations of the world.

The Farm Well

ple supply of pure, wholesome water is not only a blessing of inestimable

value but one of the most valuable as

sets a farm can possess. There is no country in the world with a greater

rivers and springs than Canada, and there is no insuperable difficulty in the larger number of our agricultural

districts in obtaining a supply ample

of the Experimental Farms shows that the Division of Chemistry is doing a valuable work towards the improve-

ment of the farm water supplies throughout the Dominion. In the

course of he past 30 years many hun-dreds of samples from farm wells have been analysed and reported on. A perusal of these reports shows that,

year in and year out, only about one-third of the waters were pronounced

as pure and wholesome; in other words, were free from excretal drain-

be, and the reason is not hard to find. In too many instances convenience

the well. For the most part we find these polluted wells under stables, in

ds, or dangerously near

age matter. This is not as it shaw

A glance through the annual reports

and pure.

OOD water is as essential as good G food for the maintenance of health in the family and the thrift of the farm live stock. An am-

own hymns the singing is most

# leisure, and for the more studiously inclined there are classes where men may learn knowledge that will make them more efficient in days to como, when the sword is sheathed and the

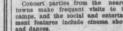
with his coffeestall before the place was consolidated, serving biscuits and chocolates to the weary men. The work of the Red Triangle is not con-fined to training camps and bases, and there are dozens of Y.M.C.A. duy-outs in the forward trenches, some of them only 100 yards from the German loss and where the Socretarian are them only 100 yards from the German line, and where the Secretaries are under continuous shell fre. Ten days after the Canadians began their Somme offensive the Red Triangle had their Sommo offensive the Red Triangle had thirty-seven centres operating on the battlefield. The Y. M.C.A. was given the definite responsibility of caring for the walking wounded, and as the streams of men cause in they were caread for by the "Y." Societarding to given free had call officer, this ser-vice was the means of asving hundreds of lives. of lives.

of lives. The work of the Y.M.C.A., how-ever, is not confined to the war-stricken areas. Its Secretaries and their dugouts are to be found in France and Flanders, Mosopotamia and Palestine, in every field where the al-lied armies are fighting; but they are also very much in evidence with the noncombatant forces.

In the Forestry Camps of Britain.

From end to end of Great Britain From end to end of Great Brilain are the camps of the Canadian Foreis-try Corps. These are nearly fifty in number, and in most of them the Y. M. C. A. has a centre. Each leader is a trained and qualified man, and there are ordained ministers among them. The staff is supervised by Captain Glanville of the Y. M.C. A. Headquar-ters who speeds most of the line images. of the Foresters

of the Foresters." The men in the Camps, while not called upon to face the rigors and risks of actual warfare, are none the leas rendering a tremendous service to the Empire. Their work releases the campice their work releases the campic of the provided in conotherwise would be employed in con-veying timber from Canada and other parts to England; and if their physi-cal dangers are not extraordinary, still cal dangers are not extraordinary, still they are strangers in a strange land. The camps are for the most part iso-lated, and after a long absence the bug of lonesomeness and homesick-ness bites no less sharply in one for-





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privy, or where the slope from the sum home are througn out. Wells in such locations can prove the defauled on to yield pure where the defaulsed on to yield pure where the pith draining into them from the surrounding soil, which inevitably becomes saturated with manurial products. These wells, indeed, act as case pits, and the records show not a few instances in which the water of such wells poseessed a distinct fertilising values from the presence of acretoal matter.

The lesson from these fasts is: Door's scriftle health to convenience; locate the well at a safe disease. Jocate the source of contamination. A bord or drilled well, tapping a despeated source, tightly sealed off at the junction of the soil and vock, is like by a give the purset supply. If a dug, well, the it is a dught of 16 or 12 set with concrete or puddled clay, four to att inches in thickness, to ensurce the exclusion of water from the serface layers of Soil. Keep the surroardings of the well absolutely clear from the accumulation of fith, and protorably in the grass. Make provision to carry of the water water from the well, and so protect the mosth of the well that surface water cannot fow in, and nice, frogs, makes, etc., are accleded. With wells such as these pure water may be secured. A windmill, gasolene engine or hand face's pump will be found a paying investment, enabling the water to be pipel to the house, stable and barn, thus securing running water in the darm building sea on year bear.

Field Notes

I her vicinity of Ingersal I recently new standing beside the read a mute testimony as to the value of concrete for building. It was a concrete silo and barn foundation, standing alone, and unsoached and the wreckage of a burned harr. The burning of a barn it a serious enough at lat in any case but when the farmer concrete silo and due to the head both standing intact and saying "hashses as usual," there is considerably more encouragement for him to go alosed and rebuild.

While spending a few minutes with me haster of minip daring farmer, I notine of that he had a small gasoline oujoine for running his crease farmer of the repartor and asked him how he managed to start the engine, at as slow a speed as it was necessary to start the soparator. His amaver was, "I start he separator by hand with the belt off. Them when the separator has reached a fast enough speed I throw on the belt and turn on the gasolino and that starts the engine." His idea in his was that it was just as well for a person to use up their strength cranking the ereas separator has it was in cranking a gasoline engine.

One of the more particularly noticeable things while going about the control during the cold speil which was the great names Polynary floods, was the great names Polynary floods, was the great names polynamic shading on the small farm hoy. However, while ice on the fields may be a fine thing for the small boy, it is not looked on with much favor by the small hoy's first mean that chances even on good for fail where and looy enty on the start is polynamic to which ice and the mean that the other confluences as a rule mean that the start confluences as a rule mean that chances is not good for fail where and looy my made, how where a small boy first

# FARM AND DAIRY

self. I had heard older people discussing the proposition of putting a large drain through a piece of fat I and which habitually fraze over and defied all attempts as growing clover. I was much concerned regarding the fact that that particular field had been the one recreation ground for the small bear. If the merchanism of the small bear. If the merchanism of the small bear. If the merchanism of the small bear. If the self had been the one recreation growing is while be and afford had bear to be afford the data bear of the small bear of the faran, let nurse to the small bear of the faran, let nurse to the small bear and afford the small bear the small bear of the faran, let nurse to the small bear and afford the small bear the small bear of the faran let nurse to the small bear a large part of the find hear faring of pleasure growing for the young people in winter than it is for the growing

While in the barn of Mr. W. F. Elliott, Unionville, recently, I could not



help noticing the material which he had used for the partitions in his cali and hog pens. His secured some heavy iron netting, commonly used for concrete reinforcing work. This he stretched across, wherever he wished

partitions. This material is strong enough to hold any animal on the farm. It does not interfere with the light and its appearance certainly adds much to the attractiveness of the stable.



# A Truck for the Farmer

**F**ARM equipment which will effect a time and laborsaving, and therefore a money-saving, must be carefully considered by every good farmer now-a-days.

The farm wagon, which for years was the most useful of all farm equipment, is now being replaced on the best farms by a sturdy, dependable motor truck. The truck will haul any farm product—fruit, grain, vegetables, stock, fertilizer, or wood—around the farm, or to the town or city many miles distant, in half the time, and at a much lower cost.

The Ford One-Ton truck is a rapid, economical and very serviceable means of transport. One of these on your farm will save you weeks of time in a single sesson and will enable you to pass through a crisis of labor shortage with less difficulty.

The Ford truck is supplied as a chassis only. This permits you to select any of the many body styles especially designed for the Ford truck and already on the market. Thus you can mount the one which suits your individual requirements.

Price \$750 f.o.b. Ford, Ont.

See any Ford Dealer in Canasia, or write for a catalog



#### FARM AND DAIRY

Farm Management

He Likes the Idea

deal. About five men with the outfit would be all right. I also think that a gang of that kind could thresh a lot

sang of that and could threat a job of grain out of the field without put-ting it in the barn at all, which would save a lot of extra labor in handling. You will understand that in this neighborhood it is next to impossible or to could be a state of the bits

to get enough men to keep the big rigs working to their full capacity, there being about a third of their energy wasted, which is a very great loss to the farmer. I, myself, being an old man, and having no help of my wur with the weather conditions ao

own, with the weather conditions so bad, I have not been able to get a bit

of my crop threshed yet, and as it was impossible to get the rig through the snow, there is quite a lot of threshing to do around here yet. I might also

state that your estimate of 5c or 6c a bushel is too low. I would like to get

mine done for that. I trust that you will try and get the government to help

us out with the threshing business.-Alex. Watson, York Co., Ont.

Peas-the Stockman's Crop

sold on the market for the last two years has given a decided impetus to their production. Canadian

vious to the war, but since then, due to the rapidly rising price of the last

three years, the acreage has been greatly increased, especially in the

Provinces of Quebec, Saskatchewan and Alberta. When we consider the and Alberta. When we consider the numerous ways in which one car, utilize this crop, either in the seed or on the vine, it is surprising that pea growing has not received an even

greater impetus than it did last sea-

ly in Canada, occupy a prominent place in human diet in that delectable food pea soup. Pea meal is a very proteinaceous food, excellent for use in a balanced ration for stock feeding

purposes, furnishing as it does a low priced concentrate. Considering the

high price of concentrates, the farmer

high price of concentrates, the farmer who has a crop of pess that he can convert into pea meal, is doing much to free himself from danger of ex-ploitation at the hands of feed deal-ers. Unthreshed peas are of great value for sheep feeding purposes, be-ing an ideal winter roughage for breeding ewes, while they are likewise an excellent feed for young cattle. They can also be successfully grown with oats and ensited, furnishing

where corn cannot be grown one of the most valuable silage food; or again the same mixture can be cured as hay and fed with profit throughout

the winter. As a summer pasture for hogs, they return profitable gains, an

acre of peas forming a most valuable

adjunct to the summer ration, coming in at a time when the young shoats are able to make the best use of this

kind of feed. The soluture of Peas. The sassful culture of peas is hargely a matter of dimat. Being a league for the solution of the solution of the classed among those cross known as soil improvers. While they do not do their best on light soils, particular-indicating a period of dry weather, yet almost any heavy, well drained soil that has not been robbed of its virgin tertility, will produce a go-d croo. The best results are obtained by put-

enstled, furnishing

with oats and

kind of feed

Split peas and whole peas, especial-

production in 1917 exceeded the production in cash exceeduat the pit-vious year by nearly a million bushels. This is as it should be. The produc-tion of peas is lower than that of any of the cereals. Insect pests, diseases and the low price decreased the pro-duction of this important legume pre-vious to the ware but since them due

HE high price at which peas have

DITOR, Farm and Dairy .-- In

answer to your request for opin-ions from farmers about government threshing gangs, would beg leave to state that I am quite sure that it April 4, 19

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plowed the previous autumn and thoroughly top-worked before seed.

Peas cannot be sown as early as wheat or cast, owing to the tender-ness of the young vines, which a late apring frost is apt to damarge seriously, also the cold and dama-ness of the seed bed may cause a mi-ness of the seed bed may cause a mi-give an exact date when it is desi-able to start pea seeding, but this : a general rule that may be followed: If you have sown your wheat on the If you have sown your wheat on the earliest date possible, the seeding of peas may be commenced from 10 to 14 days afterwards. This rule might be modified in certain localities, de-pending entirely on the local weather conditions.

are in extreme northern districts, and are in extreme hordern districts, and who are desirous of trying out peas, to start in a small way. As peas are subject to severe injury from frost both in the late spring and early autumn, it would be poor advice to recommend any farmer who is slutt ed north of the 50th parallel in the eastern provinces, and north of the 53rd parallel in the prairie provinces,

There is a large, place for peas in our farming and stock feeding prac-tices, much larger than has been thought by most of our practical agricutturists

ARGE seeds, such as corn, beans and peas, germinate most suc-cessfully between moist folds ..... of Canton flannel, while medium-sized seeds, such as wheat, oats, clorer and alfalfa, germinate best be-tween moist folds of blotting paper. The very small seeds, such as tim-othy, red top, alsike and white clover can be most successfully germinated on top of moist blotters.

To make a germination test, two ordinary plates may be used. The cloths or blotters should be dipped in lukewarm water and spread upon in inkewarm water and spread upon one of the plates. One hundred seeds should be counted from the sample which is to be tested, and placed be tween cloths or blotters or on tog of blotters, depending on the kind of seed to be tested. The plates should be kept in a room at ordinary temper-ature, from 68 to 70 degrees Fabrenheit.

The total count of the sprouts at the end of the sixth day will indicate

## Smut Treatment for Wheat

PRECAUTIONS against smut are probably more impostant are P probably more important this year than ordinarily. The fal-lowing treatment is recommended: To 40 gallons of water, add one pint (pound) of commercial formalin (standard 40 per cent. solution of formaldehyde). Spread the grain on a clean floor or in a wagon box. Sprinkle the solution over the grain, shovelling the grain over to make certain that solution comes in contact with the all of the grain-then cover with old sacks, old blankets or canvas and sacks, old blankets or canvas and leave covered for eight or ten homs. The sacks, blankets or canvas should be wet in the solution before bein used in order to kill any spores that might be on them. After treatment the grain should be spread thinly and stirred occasionally to facilitate raph

## ting them on sod land which has been

Peas cannot be sown as early

We would recommend farmers who to sow a large acreage until he is certain that they will escape late spring and early fall frosts.

The many ways in which one can utilize a few acres of peas with profit, utilize a few acres of peas with profit, should tend to make this one of our most popular crops instead of occu-pying, as it does, a lower place than any of the Canadian cereals. There are no cultural difficulties to di-courage the farmer, while the chief insect pest, the weevil, can always be successfully controlled by the saiphide treatment.

#### Seed Grain Tests

the value of the grain for seed. If 90 to 95 seeds grow, the germination is good, but below 90 the value of the grain for seed is doubtful.

"Have not cost a dollar for repair"---They have remained so good, in fact, that it is going to be neces-ary to put in cross-guitters or 'hank-you-marms' in restraint of autoists. These roads have not been subject to an excessive amount of traffic, but the climate conditions, always one of the sune of the beauties of the Tarvia oposition is the fact that even a rry small village can afford to twe fine, smooth, dustless Tarvia Here is little Grand Mere, for intance. t has been using Tarvia for years preme tests - 30,000 gal-l o n s al-together.-Made in Canada of roads, are about the worst 0 i ble Its mace 112 poss and I roads con-from and I con-clude from observation that these r o a d s w o u l d have stood bonded with Tarvia, look pave-and Preserves Roads Prevents Dust~ its Der Teetiy. The first coid does not greatly ex-ceed plain maredam and the Tar-tife of the road that its use saves money in the end. The landscape architect of Grand The landscape architect of Grand-end, writes regarding these road; "Tarvia roads were built five or six years aro which have not cost a dollar for repeir. any traffic..... There are several grades of Tarvia to meet varying road conditions. If you want good roads at little cost in your locality, the use of Tarvia is the best way to insure this result. Booklet telling about the various Tarvia treatments free on request. The Barrett Company VANCOUVER TORONTO WINNIPEG MONTREAL SVDNEY, N. S ST. JOHN, N. B. HALIFAX, N.S.



Advertising is something more than the sailing of good and buying of good will. It is something higher the constraints of the source of the s



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#### April 4, 1918

It should be dry enough before sowing so that it will feed free-ly through the drill. In case the grain has become swollen, the feed on the drill can be opened to off-set the swelling of the grain. The drill should be sprinkled thoroughly with the above solution before being used.

#### Preparations Made for Important Fruit Legislation

#### (Continued from page 2.)

offered for sale shall be well and properly filled at point of shipment, and if cases where fruit inspectors find evidence of under-diling, they shall have the right to weigh or measure the contents of the package at the point of shipment, in order to at the point of single-one in other to determine whether or not the pack-age had been well and properly filled. It was also decided that in cases

where packages are re-packed for sale they shall be marked as such and bear the name of the re-packer. No grades or marks on the package shall be altered except on authority of the be altered saver on autority of the Dominion Fruit Inspector. In cases where re-packing is practised, all fermer marks on the package must be obliterated

#### False Marking.

It has frequently occurred in the past that Fruit Inspectors have found packages of fruit not properly mark-ed. They have not had authority to re-mark these goods so as to show their correct grade. All they could do was to mark the packages "wrongly marked." Even after they have been so marked the dealers have ofbeen so marked up to bears mare or-ten been able to sell the fruit as though it bad not been wrongly marked. It was decided that when an inspector finds packages of fruit faisely marked at the shipping point, he shall have power to remove orig-inal grade marks and place the proper grade parks on the package and that he shell also have power to hold such frui, until proper marking is done

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Canada has not bad a standard bushel basket hitherto. It was decided to adopt the American standard bushel basket.

#### Immature Fruit.

Great injury has been done the fruit industry bitherto through the practise of some growers of shipping immature fruit early in the season when prices were high. It was de-cided to ask for legislation which will provide that no immature fruit shall be marketed except where the de-mand is legitimate nor any fruit that is so materially diseased, wormy, or otherwise depreciated so as to be "Immature" unfit for consumption. was defined to include all fruits that are unsuitable for consumption, be cause of lack of those desirable and necessary qualities of a culinary or dessert product.

#### Open Boxes

Hitherto a great variety of boxes have been used in the marketing of small fruits. It was decided to re-commend three sizes only: the fourfith quart, the two-fifth quart and the British Columbia pint box made square. These will be the standard

sizes for domestic trade only. It was decided not to recommend any legislation that will prever the any negatiation that will prever the Called States fruit entering Canada in packages, the use of which may not be legal for Canadian growers, and that baskets, box and barrel manu-facturers should be allowed ample time to dispose of stock on hand.

#### Those Present.

The sessions of the committee were presided over by the Dominion Fruit Commissioner, Mr. D. Johnston, Commissioner, Mr. D. Johnston. Those present included: From British Columbia-C. E. Barnes, Walaching J. E. Reckie, Kelowna; G. A. Chick, Relowna; E. Trask, Oyama; Prof. F.

M. Clement, Vancouver; H. C. Airth, New Westminster, Prairie markets-L. E. Mutton, Regina. Ontario-R. W. Grierson, Oshawa; W. F. W. Fisher, Burlington; F. A. Sheppard, St. Catharines; Dr. A. J. Grant, Thed-Catharines, Lr. A. J. Grant, Thed-ford: S. H. Rittenhouse, Jordan Sta-tion: P. W. Hadgetts, Toronto; F. Carpenter, Grimsby. Quebec-Prof. T. G. Bunting, Macdonald College; Peter Reeve, Chateauguay Basin; Peter Reeve, Chateauguny Basin; Rev. Father Leapold, La Trappe. New Brunswick-A. G. Turney, Frederic-ton. Nova Scotia-F. H. Johnston, Bridgetown; F. W. Bishop, Paradise; A. S. Banks, Waterville, M. K. Ells Port Williams; A. E. McMahen, Der-wick. Prince Edward Island-A. E. Dewar, Charlottetown. The basket Newar, Charisticstown. The basket manufacturers present included A. W. Reid, Beamsville; W. F. Thomas, St. Thomas; J. H. Baskette, of Owen Sound. Others present included J. R. Hastings of Winona; W. T. Macoun, Hastings of Winoma; W. T. Macoun, Ottawa; and Fruit Imagnetar T. J. Carey, Toronto; C. W. Barter and C. H. Snow, Ottawa; F. H. Steele, Win-niper; R. G. L. Clark, Vancours; G. H. Vroom, Middlenn, N.S., and Messra, Geo. MacIntosh as, P. H. Grinvley of the Dominion Fruit Divis-

A bride entered a grocary store and asked the man if he had any aggs. "and "Yes," he returned proudly, "and they are not to be beaton." "Well," returned the woman, tarn-ing away, "they will be of no use to me, for I want to use them in a pud-ding."

Experiments With Farm Crops T HE members of the Ontario Agricultural and Experimental Union are pleased to state that for 1918 they are prepared to distribute into every township of Ontario material of high quality for experi-ments with grain, fodder crops, roots, grasses, clovers and alfalfas, as follows:

LIST OF EXPERIMENTS FOR 1918. N No. Grain Crops Plot 1. Testing do varieties of Oats 2. Testing do varieties of Oats 3. Testing two varieties of Hulless Barley two varieties of Spring Whoat Plot

- 5. Testing two varieties of Buck-
- 6. Testing three varieties of Field

- Tening Three varieties of Pleid Poss Torong two varieties of Spring Torong three warlets of Sav. Res. Tening three warlets of Sav. Res. and Dent Huaking Comof Film and Dent Huaking Comof Film B. Tening three varieties of Film B. Tening four varieties of Densi Huaking Corn Huaking Corn.
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- Turnips ... Manusces of Fail Turnips ... Manusces of Carrots. Forage, Fodder, Silage and Hay Grops 16. Tueting the planting of Corn at 19. Testing the line row of Mujusi. 19. Testing the vertex of Monthews 19. Testing Crass, Peas and two varie-tees of Vetches 19. Testing Rape, Kale and Field Cabbage.

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Testing three variaties of Clover. 3
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And and of the same poor is to be chosen rods long by one rod wide. Any person in Ontario may choose any ONE of the experiments for 1918 and apply for the same. The material will be furnished in the order in which the applications are received while the supply lasts. Each applicant should make a second choice, as the matarial for the experiment selected as first choice might be exhausted be fore his application is received. All material will be furnished free of charge to each applicant, and the produce will, of course, become the proexperiment. Each person applying for an experiment should write his name and address very carefully, and should give the name of the county in which he lives .-- C. A. Zavitz, Director, Ontario Agricultural College

Bobbie had been taken by his father to the circus. The youngster came home round-eyed with excite-ment and flushed with enthusiasm. "Oh, ma," he exclaimed, "if you go once to the circus with me you'll never want to fool away time going to church again."



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If you are unhammar what me some variates to your section, we want be glad to assist you in your selection, and such assistance places no one under any obligation to purchase. We have nearly 800 acres devoted to Nursery Stock and Orcharding, and can supply first class stock of the following selected and inspected trees:

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## Letters to the Editor

The Farmer's Labor Income

DITOR, Farm and Dairy,-In your issue of Jan. 24th, there is an editorial and also a brief report on the rural survey of certain parts of Ontario. This is something entirely Ontario. This is something entirely pew to us here, but, so far as I can gather from reading the articles re-ferred to, it means that the Ontario Government is trying to find out how profitable farming really is. The subject is very inter-esting and is the one subject connected with farming which, more than any other, needs careful attention. Almost all branches of farming have been gone into very elaborately by the various agricultural departments, but this one subject has been until recently en-tirely neglected, and even now, if I may venture to say so, it is being approached by the experts from a wrong angle.

Why should capital employed in farming operations be figured at 5 per cent.? Capital in no other indusper cent.? Capital in no other indus-try is figured at this low rate, and no farmer in any part of Canada can now or ever has been able to in the past, get money at this figure. Rates of interest may be a triffe lower in On-teric than there are in British Columbia tario than they are in British Columbia. but, speaking generally, I have no doubt that the conditions are generally the same in both provinces. If a farmer wants to borrow money the bank will charge him from seven to eight per cent., and will only lend him a mere fraction of what his farm, stock and outfit are worth. If he goes to a mortgage company, he will have to pay from seven to nine per cent. and will be able to borrow only from a third to a half at the outside of a third to a main at the outside of what his farm alone is worth, without counting the stock. If he borrows money on a chattel mortgage on the stock, he will be able to get about a third of the value, and probably have to pay from ten to twelve per cent These, with slight variations, are fair-ly well known conditions all over Canada, and have been the ruling condi-tions for generations.

Estimates on an Impossible Basis, Then why should the department start now making their estimates a basis which is now, and always has been impossible? Take any other business enterprise—cotton factory, iron works, shipbuliding, railway iron works, shipbuilding, railway-anything else you like to name-and, while the amount which can be raised in these industries is generally a far higher proportion of the assets than a farmer can borrow under any circumstances, the manufacturer would have to pay for these deben tures at least six per cent., and it is uite certain that nobody would ream of putting money into any manquite ufacturing or trade enterprise as a shareholder where he did not expect to get considerably more than six per cent. While one's expectations in this respect are very often not justified, if the enterprise does not pay seven or eight per cent., it is not considered profitable, and as a rule, the shareolders or lenders get out of it as soon as they can.

I think that the basis taken for estimating the profitableness of Canadian farms should be not less than six per cent. for two-thirds of the value of the farm and buildings alone. and not less than eight per cent. for the value of the stock, could and the remaining third of the land. This would probably make an average of about seven per cent. all through in most cases, instead of five per cent. as estimated by the department-and when one considers the hazardous and accemistics nature of farming de and not less than eight per cent. for and speculative nature of farming, dependent as it is upon many things tirely outside of the control of the farmer himself. I would say that an average rate of interest of seven per cent. is extremely small, and it is doubtful whether anyone could be in-duced to invest money in farming

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with the expectation of getting only this amount. I suppose the reply of the Agricultural Department would be that if capital were figured at seven per cent., there would be no labor in-come at all in many cases, and that they did not want to show that farming is entirely unprofitable, as w looking to further immigration to fill looking to further immigration to ful up our vacant lands, and this would have a tendency to prevent immigra-tion. I have often heard this argu-ment used in this connection and would say that the truth is the best every time, no matter whom it hurs. Moreover, it is a very wrong thing to induce immigration on false pretences

The idea of the feeding of a p tion of 8 million people being left in the hands of what can only be described as a cottage industry, is both foolish and dangerous, and if this rural sur-vey has done nothing else, it has proved beyond question that, as you say, the idea of a land of small or family-sized farms is not economical ly son

A Fernanent Laboring Class. In my humble opinion, farming will never be on a satisfactory or sound economic basis until farmers are able to get a chass of labor which is both steady and contented. That can both steady and contented. That can never be got until the same wages are paid that hold in other skilled indu-tries, and I am sure that any though-ful farmer must have often been ashamed to feel that the only wages he could afford to give to a man who isse, in many cases, that the com-monent unskilled laborer was getting in the cities. in the cities.

I believe it is the idea of the small, family-sized farm which has been so prevalent in Canada so long, and the constant "back to the land" talk which is heard in the cities, that is at the bottom of the whole trouble. Hundreds of men have been induced to go into farming and invest their total capital in it-men who had neither previous experience or natural ability nor sufficient capital. These men have become stuck there, and it has have become study there, and it as been impossible for them to pull out in many cases and resume their old mode of life and they have simply plodded along from hand to mouth ever since. This class of men is the weakent link in the chain, and we all know that the strength of the chain is the strength of the weakest link, and it is the constant economic pressure upon this large class of farmers, forcing them to sell in order to get the immediate dollar, which has been the bane of the farming industry. One cannot help thinking sometimes that the large interests, particularly the large employers of labor, are giving a area to all the back to the land talk, and the booming of the profitable nature of farming operations. Their in terest, for more than the interests of the working class, is in keeping the cost of living as low as possible, par-ticularly the cost of food.—Charles E. Hope, Deep Creek Farm, Limited, Langley Fort, B.C.

#### Socialism the World's Hope

BITOR, Farm and Dairy .- in the hast issue of the Farm and Dairy appeared a letter under the cap-tion of "On Dynamite," regarding the wave of unrest that is spreading and continually gathering momentum all over the civilized world, and which shows Maself by spontaneous outbursts of lawlessness here and there as cited in that letter.

The causes of this are neither shallow nor artificial, but are decoys embedded in the very roots of our social order, and the elimination of these causes will necessitate radical and sweeping reform, in this privileged and monopolistic world of ours, along socialistic lines.

What have we under our present order of things. On one hand we have the wealth of the country in the hands of the privileged class, while

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on the other han of producers, with that they produce hands of the p have control of th tory, the mills, the producing instrum and the higher t mounts, the heav terest that it entr back of the wealt have reached the the load and dema produced go to the it justly belongs. The writer of t

to tells us he has ism, principally or muddled state of brought about by ous people, who autocracy and feud to keep out of the trial despotism w Western Europe an French revolution of the end of feud Russian revolution of the end of capit The blind and which has filled the ery and crime, and calamity on a peac can no longer be p by the fruits of a it, the evil fruits of it to death. The on the darkness which us, is the striving promote peace and end industrial des operative commonw

of this chaos of shed, brighter days nation will no longe nation, and humani of all the great ble it the greatest of al M., Compton Co., Q

The Big Fight ; F

DITOR Farm agricultural c L necessary of workers. All depend istence. They should afuential class in Through lack of coo coherence they stand est class in any com Agricultural trade

all other industrial As an asset it is of The farmer takes a the powers that be He buys all his requ fired by someone el produce at a price impositions are heap other classes contro classes? No! When himself. Is it to be t the farmer is the beat the rest of the hun farmer spends long, ing alone; his thoug he is alone in body, try, apart from the vidual cramping his ing him suspicious of having no confidence they may take,

Produces Plentyeral conditions as fa have record. He has in plenty, but his sha in every age, in e farmer has had his plaint. The heavy be he carries for others: get redress, time and invariably he looked for one else. Why does on himself for redre clames are doing all to keep the farmer u to their benefit

on the other hand we have the army en the other make we nave me army of producers, with the surplus wealth that they produce going into the bands of the privileged ones who have control of the railroads, the facthe mills, the natural resources off, the mans, the matural resources of the earth and every other wealth producing instrument in the universe; and the higher the horde of wealth mounts, the heavier the load of interest that it entails, presses on the back of the wealth producers, till we have reached the climax where they are no longer able or willing to carry the load and demand that the wealth produced go to the producer, where it justly belongs.

i justy belongs. The writer of the latter I referred to tells us he has lost faith in social-ism, principally on account of the multied state of affairs in Russia, brought about by a good and gener cas people, who having overthrown autocracy and feudallam, are striving there out of the chickness of induce to keep out of the clutches of indus-trial despotism which characterizes Western Europe and America; as the French revolution was the beginning of the end of feudalism, so will the Russian revolution be the beginning of the end of capitalism.

The blind and gracping greed, which has filled this world with slav-ery and crime, and brought this world calamity on a peace desiring people, can no longer be permitted to live, if by the fruits of a tree ye shall know it, the evil fruits of this tree condemn it to death. The only bright spots in the darkness which now enshrouds the darkness which now ensurouds us, is the striving by the labor or socialist partices in all countries to promote peace and harmony and to end industrial despotiem. The cocorrulive commonwealth comes slow in it does come, and I believe that of this chaos of strife and blood-abed, brighter days are dawning, when sides will be lower life nation will no longer lift hand against nation, and humanity will learn that of all the great blessings enjoyed by it the greatest of all is peace.-D. R. M., Compton Co., Que.

The Big Fight ; Right vs. Might DITOR Farm and Dairy: The E agricultural class is the most necessary of all the world's workers. All depend on them for existence. They should be the most influential class in all communities. Through lack of cooperation or class coherence they stand to-day the weakest class in any community.

Agricultural trade exceeds in value all other industrial trade combined. As an asset it is Canada's largest. The farmer takes a back seat while the powers that be rule his destiny. He buys all his requisites at a price fixed by someone else; he sells his produce at a price fixed by others; impositions are heaped upon him by ether classes controlling. Who is responsible? Government? Other classes? No! Who? The farmer himself. Is it to be wondered at that the farmer is the beast of burden for the rest of the human race? The farmer spends long, hard hours, toil-ing alone; his thoughts are of self; ing alone; his throughts are of self; fe is alone in body, soul, and indue-try, apart from the world, an indi-vidual cramping his intellect, mak-ing him suspicious of fellow workers, having no confidence in any action they may take.

Produces Plenty-Gets Little. Such have been the farmer's gen-eral conditions as far back as we have record. He has always produced in plenty, but his share was minute in every age, in every land, the farmer has had his constant complaint. The heavy burden; the load he carries for others; he has tried to get redress, time and time again, but invariably he looked for it from some one else. Why does he not depend on himself for redress? Privileged chance are doing all in their power to keep the farmer under the yoke. to their benefit to keep him

there. He is to them the human ox, the political jackass. They drive him, hitched to the plow, to produce the world's wealth and sustenance, on which they thrive and grow fat. union tably thrive and grow fat. Dis-ing the present world's struggle for freedon and justice the farmer has nobly done his duty. He has pro-duced, and produced blindly, so far as his assured gains were concerned. Dur He has produced as a patriot, whereas he is being treated as a slave, driven by the lash of the profiteer. We find by the lash of the profiles. We find the Empire prepared to pay the light rates for assured supplies of means, where with to feed her average to the se-this not an opportunity for increasing production? Most decidedly, we find, though, the packers took the ex-tra high prices, being patriotic, but when coming to the producer for sup-plies to fill the orders, they employed the usual tactica-giutted market, drop in prices. drop in prices.

The farmer is finding himself in such tight corners during these trying times that he has begun to think about some way out. The only way out is to use the ballot. He was given this weapon of defence some decades ago, but, so far, has never learned the use We admitted the farmers were of it the majority of the people; then it is to the shame of the farmer that he is in the position he is. In the past he

has not shown himself as wise as his own stock. Even they know that in own stock. Even they know that in times of danger marky lies in bunch-ing. Their ballots have in the past neutralized each other, gaining them no power holitos. To get the use of their ballot they must vote to-gether, with one essential object in view. That object must be to have representation in screpment The representation in government. The governments of today are controlled and manipulated by the privileged classes. They use the farmers as clay, moulding them to suit their purcusy, modifing them to suit their pur-pose. Fairmers, unite! Use your bal-lot to your own.good! Get control! Turn potter, and mould the clay to finer vessels than heretofore!--W. E. Smith, of The United Farmers of British Columbia.

At the auction sale of Mr. Jas. Leahy in Duore township, Peterboro county, five horses and a filly sold for \$1,382, nine grade milde cows for \$1,052 and the total of the sale inclus-ing implements, five last summer caives, 12 rising two years old and seven chose, was \$4,162. This is a record sale for the district. The most interesting feature was the price realized for the horses which were just good agricultural horses. It were just good agricultural horses. It would seem that the shump in the horse market is about at an end.



FOR HARD ROUGH WORK THEY STAND PRE - EMINENT There is no load too heavy or strain too great for these all-steel hames. Two-piese, doubly reinforced at points of

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buckle or band, anti-rust treated. Write 6 or Osciptire Folder We can formish low tops and his Topse light hances and gry hances in all hans or quiremens. DEALERS: Write gry hanne requiremens. DEALERS: Write gry and set proposition and selling helps. MCEXINON DASE COAPANY Bept. G St. Catherines. Ontario, Can.

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proof and sanitary. In our 100-page book, there are directions which emable the farmer to construct all sorts of improve-ments of the sanitary sector of the sanitary sector bis man. Sanitary and the sanitary sector of the saving book. Mark on the subjects which are of immediate interost to you.

CONCRETE BLOCKS .*	-	DAIRY HOUSES BARNS
SILOS	1	FENCE POSTS
GARAGES	1	ROOT CELLARS
TROUGHS AND TANKS		ROADS
"What the farmer	r . ci	in do with concret



**Overalls** 

Shirts & Gloves

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Dad

In reply to Mr. Rice-Jones, Mr. H. H. Pigott, of Winnipeg, had prepared in advance, a reply on behalf of the business interests. A summary of this reply was published in last week's laste of Farm and Dairy. Both papers had been printed and distributed in advance, and formed the basis of the

(Continued from page 3.)

discussion which took place. The two subjects were discussed all one afternoon. It is impossible to give a full report of it in the space available. Both sides seemed a little afraid to lay their cards on the table, and held considerable material in re serve which was not used. The final result of the discussion was that committee was appointed which will go into the various points that were raised more fully, and report at a later meeting. In brief, some of the main points made by both sides were as follows:

#### The Discussion

Mr. H. W. Wood, on behalf of the farmers, early in the proceedings frankly asked the business interests why they did not want to recognize the farmers, and what they would ad-On the vise the farmers to do. side are the farmers on the other the wholesalers and the manufacturers, in between are the retailers. The In between are the recards. The latter, he said, have sided for the most part, with the business interests. The farmers do not want to injure any legitimate business interests. they appreciate the value of the work done by country merchants, they de sire to do what is fair, but they feel that they should have the right to conduct trading operations when they can do so to advantage. So far, their cooperative efforts have proved eminently successful, and they could not see why they should not continue conduct them.

Mr. Montgomery of Montgomery Bros., Deloraine, Manitoba, said that he had been in the retail business for 30 years and agreed with what Mr. Wood had said that the retailer and the country merchant are the buffer. Most farmers seem to think that the country merchant is getting rich at their expense. He knew that this was not the case. Nineteen out of 20 retailers in Southern Manitoba had gone out of business during the last 19 years. Most retailers would gladly well out if they could. He admitted that there were too many retailers in some districts, while in others there were not enough. Incidentally, he described a community in which there had been several stores, a blacksmith shop, a boarding house, and other local enterprises. One after another these had given up business, with the result that the life of the whole community had become stagnant. The tendency of farmers to patronize the mail order houses and to conduct their own trading operations, was forcing retailers and country merchants out of business, with the result that community life was deteriorating and farmers were among the main sufferers. He feit that if farmers could get over looking at the merchants as though they were daylight-robbers, and if the merchants would cease looking upon farmers as pinheads, better conditions would prevail. He asked frankly what had led the farmers to commence trading operations. Although Mr. Montgomery's qu

tion had been pretty well answered by Mr. Rice-Jones, other speakers refor the farmers. One farmer Alberta said that in his local plied for the farmers. town there were three hardware stores where one was all that was needed. All were short of capital and carried only limited stocks. The result was that frequently farmers could not pur-

chase from any of them the things they needed. Each of these merthey needed. Each of these mer-chants had an assistant. Under normal conditions, one store with three men in all to run it, would be sufficient. There would be a saving in rent, in taxes, in wages, in capital invested and a larger and better stock could be carried. Similar conditions applied to other industries, as there were, for instance, two banks where one would have been sufficient. operation apparently was the only thing which would rectify such coaditions

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Mr. J. A. Maharg, M.P., gave an-other reason. The summer of 1914 was dry in Saskatchewan. The potato dry in Saskatchewan. The potalo crop was largely a fallure. In Septem-ber retailers were charging the farmers \$1.50 a bushel for potatoes and claimed that the price would go up to \$2.00 by spring. They advised the farmers to buy early. The farmers could not understand the situation as they knew there were plenty of pota-toes in Ontario. They imported sevaral car loads of potatoes, with the re-sult that their potatoes cost them 75c a bushel that fail and 80c in the spring

Mr. Rice-Sheppard, of Alberta, said that his club had not wanted to buy from outside provinces. They had gone to the local dealers and asked them to handle their order for 24,000 lbs. of binder twine. The Massey-Harris agent had replied by inviting Harris agent han replace by hving them to go to a warm climate. They then tried to buy from the wholesal-ers, but without success. The result was that they were forced to send their order to the Kingston Penitentiary where they obtained their sup-ply at a much lower price than was being asked locally.

#### The Chief Objection

One retailer made the claim that had no objection to farmers undertaking trading operations if they would conduct them on the same basis that the merchant did. "Farmers erhe said, "to maintain our pect us,' stores all the year around, keep them supplied with the many little articles supplied with the many interfaces a which they do not care to handle themselves, extend them credit, pay taxes, and be ready to supply their wants at all times. They then make it difficult if not impossible for us to do this by commencing to trade in cer tain of the more profitable lines on a wholesale and cash basis, thereby leaving us only the lines on which we only operate the way we do, we will have no objections to their doing so if they find that they can undersell 115

Mr J. R. Musselman, of Regina, Mr. J. B. Musselman, of Regma, secretary of the Saskatchewan Grain Growers' Association, replied that the crux of the whole matter was that the ess interests did not want to see the farmers conduct their own business on a cooperative basis. one method, a business man conducts the business mainly for his own bene-Under the other method, the peo fit ple do their own business, for their own benefit.

Mr. Piggott had pointed out in his paper and the charge was sustained by those present, that the farmers did not act fairly to the community at large because they refused to sell to any except their own m Hon. Geo. Langley, countered hard on behalf of the farmers by showing that when the farmers had asked for legislation granting them power to cooper-ate in trading operations, the retail merchants had engaged a lawyer, and had fought strenuously to prevent the farmers from getting the right to trade with any except their own members. It was because of this opposi-tion on their part, that the farmers had been refused the right to trafe with any except their members. The

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Privileges One retailer c

farmers had ob eges from the asked to state wore he replied that they could certain condi retailers. Mr. M pointing out the and sell, such as tory that they my He pointed out th tion, not a privile retalers would un petitioning the G Another retails

the country merc from three sour ouse, the pedlar farmers would con only to bulk arti might get along farmers are deali other similar supp the situation acu norsisted in this drive the country business, destroy ity centres, and themsalves. Mr. farmers are in full community unit, b anit which must ta over that of the c is the family unit sity for protecting that reason alone farmers to patron houses, and to com ations for themsel' lieve," said Mr. W away our orders i but we do not see we can do. If the business was on should be able to g and best service. is not doing so not does get on a basis to give us the shla will we be able to g our business as w Many changes in business in the past the need for imp trading business in is undergoing such the process, some ars being injured. they recognize that efficient service the demands, they make they lose business. get together on a basis, or fight th through to a finish. Mr. Wood asked

and manufacturers why they refused to except in cert tried to prevent us i "and you make it d trade at all by refu with the goods that leads you to treat us A representative

largest implement m cerns in Canada, re very difficult for then their local dealers a tme, sell goods to in competing against th found that the dealer ere service in the w nents, keeping and in other similar and in other similar farmers did not atte themselves. This ser represented about th price, between wha charged for the goods of the dealors. He wy the farmers and deal (Continued or (Continued on



TORONTO

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(16)

Bot Long says:

"My overalls and shirts are the best made, because-they are roomy and confortable. I designed them with the idea that you might want to stretch your arms and lege occasionally." Insist of "Bob Long" brand. Ask your dealer for Big 11-the big grey overalls-the cleth with the test.

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business men were asked if they would unite with the farmers in asking to have this restriction removed. They my the point, laughed, but did not offer to cooperate.

Privileges or Restrictions. One retailer complained that the farmers had obtained special privil-eges from the Government. When asked to state what these privileges were, he replied that he understood that they could not be sued except certain conditions not enjoyed by ailers. Mr. Musselman replied by rotallers. pointing out that the act restricted the ways in which farmers could buy and sell, such as by making it obliga-tory that they must sell only for cash. He pointed out that this was a restriction, not a privilege, and asked if the retalers would unite with the farmers, retailers would unite with the rarmers, petitioning the Government to remove the restriction, but got no response. Another retailer pointed out that the country merchant has competition

from three sources, the mail-order house, the pediar and the farmer. If farmers would confine their operations narmers would connected the operations only to bulk articles, such as binder twine, feed and apples, the retailers might get along. Now, however, twine, feed and appres, the retailers might get along. Now, however, farmers are dealing in groceries and other similar supplies. This is making the situation acute. If the farmers persisted in this action, they would drive the country merchants out of business, destroy their own commun-ity centres, and work an injury to themselves. Mr. Wood replied that farmers are in full sympathy with the community unit, but there is another unit which must take precedence even over that of the community, and that is the family unit. It was the neces sity for protecting the family unit and that reason alone which had led farmers to patronize the mail order houses, and to commence trading operations for themselves. "We don't be-lieve," said Mr. Wood, "that sending away our orders is the best system but we do not see anything else that we can do. If the country merchant's N. W2.8 on a right basis he should be able to give us the cheapest and best service. In many cases he is not doing so now and not until he does get on a basis where he will be to give us the service we expect will we be able to give him as much our business as we would like to. Many changes in methods of doing business in the past, have been forced the need for improved method. The trading business in local communities is undergoing such a change now. In the process, some country merchants are being injured. Unless, however, they recognize that they must give the efficient service that the community efficient service that the community demands, they meet not complain it they loss business. We must either get logether on a new and better bass, or fight the wholes problem drough to a finish." Mr. Wood asked the wholeselsrs and manufacturers to state plainly who has more a state plainly

why they refused to sell to the farmers, except in certain lines. "You tried to prevent us from trading with any but our own members," he said, "and you make it difficult for us to trade at all by refusing to supply us with the goods that we need. What leads you to treat us so?"

A representative of one of the largest implement manufacturing conof the cerns in Canada, replied that it was very difficult for them to sell goods to their local dealers and at the same tme, sell goods to interests that were competing against the dealers. They found that the dealers gave the farm ere service in the way of setting up implements, keeping repairs on hand, and in other similar ways that the farmers did not attempt to a do for themselves. This service, he thought, represented about the difference in price, between what the farmers charged for the goods, and the charges of the dealers. He was anxious to see the farmers and dealers set together (Continued on same set (Continued on page 27.)



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W HEN it comes to choosing the wire fence that is to protect your farm, be guided by the experience of most of your careful neighbors. You will find that Page Fences have been the choice of most of them

Why do they place so much confidence in Page Fence? Because they know it lasts. They may have seen some of the Page Fences we made over 25 years ago still up and giving

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Note that we allow freight on all Page orders of 200 pounds or over to any place in Old Ontario and Quebec, provided payment is made within 30 days.



## THE PO

Let the powerful, sturdy little lingine help you through your w Bared help is scarce, inexperienced high priced, but a Page Engine is ftable and inexpensive help that y

Urea. Let it pump the water for you, mill use six, boott the bary and grain to sinks outer and through and on-sinks outer and through and it will store at the distance of the six of the six of the six of the six we make Page Parm Engines in two yes—one burning Gasoline, the other Kerssone (or Gasoline); and in five Drepu as each at a the last infor-ter at the six of the six of the six and the six of the six of the six mation about them. It is not all infor-ter at the six of the six of the six and the six of the six of the six and the six of the six of the six and the six of the six of the six and the six of the six and the six of the six



Please Mention Farm and Dairy when Writing Advertisers



(18)

#### Rural Home

"The Farm Paper for the farmer who miks cows." Published every Thursday by The Rural Publishing Company. Limited Peterboro and Toronto.

#### 47

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The Rural Publishing Company, Ltd., PETERBORO AND TORONTO

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and consider."-

#### The Production Campaign

HE "spring drive" is on both in America and in

Europe. The military campaign in Flanders may tend to detract attention from the production campaign in Canada, but from the standpoint of national security one may prove as important as the other. Recent developments in the Far East have given the advantage in food supply to the Central Empires; they may now draw at will on the wheat fields of Russia, Roumania, Poland and Ukrania. These sources of supply are near at hand, and the transportation problem an easy one. Among the Entente allies, on the other hand, the food situation has assumed a serious aspect. One year ago, only the enemy was on rations; to-day, Great Britain, France and Italy are all on rations, and it is upon the 1918 crop from Canada and the United States that the fate of the democratic peoples of the world depends. If that crop is sufficient, the Allies can be fed. If the crop prove insufficient, the Allies may have to accept a humiliating peace.

These are general statements, and such statements are not always convincing; but there is no getting around the bald facts. We know that lack of fertilizer is playing havoc with the crops in both Great Britain and France, and in the latter country the wheat crop of 1918 will be only one-half of normal. Italy has been living from hand to mouth for months. Together, the Allies are asking America for 250,000,-000 bushels more wheat than last year. Present prospects are for only a seventy-five per cent. crop of fall wheat in the United States, and the Food Controller of that country has stated that they will not be able to produce over 70,000,000 bushels of a surplus over last year.

The balance must be had from somewhere. Even were they supplied the full amount, the Allies will be obliged to tighten their belts and go on reduced rations. If Canada cannot produce the 180,000,000 bushels still required, ships must be spared to bring the wheat from Australia and India. This would mean less ocean space for the transportation of men and munitions and would place a serious obstacle in the way of moving United States armies to France and for carrying their supplies once they got there.

#### FARM AND DAIRY

A small part of this great wheat surplus will be produced on bonanza farms operated by men of wealth. The great bulk of it, however, must come from the small farms of the land. The Ontario Department of Agriculture is asking for five extra acres of spring wheat on each farm in the province. The prairie farmers will be asked to increase their crop area by ten acres, if possible. Farmers in other provinces are also being asked to do their share. As farmers, we may think that we are already doing all we can. We may feel aggrieved at times because of the inopportune advice and criticism that is so frequently levelled at us. But as patriots we will do our best to produce that 180,000,000 bushels. The fearful possibility of a starving allied world will be our greatest incentive to greater exertion in the crop drive of 1918.

#### Labor, Equipment and Prices

THREE factors, aside from the willingness of the farmer, which we take for granted. and the

weather, which is always problematical, will decide the success of the endeavor to secure greater production in 1918-labor, equipment and prices. The first will probably prove the most difficult to adjust of the three, but there is no reason why the difficulties should be insuperable. It all depends on the willingness of city laborers and employers of labor to cooperate in the drive. There are many men with farm experience working in city factories, shops and offices. Are they willing to go to the land for a month or two in seeding, or for a few weeks at harvest time? Several thousand will be required for the whole season. Are the employers of these men willing to release them for the summer on favorable We understand that the Cockshutt Plow torms? Company have already taken action along these lines, and many men from their works will be available for help on the land. Other employers of labor, who realize the seriousness of the situation, are falling into line, and on all employers the Organization of Resources Committee is bringing pressure to bear. A goodly number of men it is hoped will be recruited for work the season through, and a vastly greater number for short time assistance. The 25,000 'teen age boys who will spend their summers on the farms will be an important aid in production. City girls will work in the fruit districts, but as they refuse to do house work, we do not see where they can be of any assistance to the general farmer. A sincere endeavor is being made to find the labor, and while it will not be of the hishest class, it is hoped that the farmers will make the best use possible of such as is available

The equipment is already largely on hand. As to the extra equipment necessary, its acquisition should be made as casy as possible for the farmer. Mr. Dunning, who is commander-in-chief of the production drive, is demanding free implements. The removal of the customs duty on implements at this time would materially lower the prices on many of those needed to speed up seeding operations; double cutaway harrows, for example, which cut the work of disking in half, would be owned by many more farmers were tariff restrictions removed.

Labor will be necessarily expensive, and tariff or no tariff, equipment will cost more than in pre-war days. In investing in either labor or equipment, the farmer is called upon to take a chance: a chance that he cannot reasonably be expected to take without some assurance that prices will warrant hits in making the investment. Price fixing in the past has been designed, not to aid the farmer, but to keep prices down for the consumer. Ontario wheat, for instance, is selling for a little over two dollars at country stations, whereas it would be three dollars at least, and perhaps more, had it been allowed the same free market as is accorded to all manufactured products. What is needed now is a guaranteed minimum price for the 1918 wheat crop. With a satisfactory minimum established immediately, farmers will proceed with much more confidence in undertaking the heavy expense involved in producing the extra crops that are needed for the Allied world. It is time that the Government came to realize that the farmer is a business man and cannot be expected to finance his farm operations without reasonable assurance of a fair business profit. The business manufacturer in war production demands a contract that will cover April 4, 1903

all costs and all risks. The farmer does not de so much, but he is well justified in asking for a guaranteed minimum price sufficiently high to safeguard the business risk involved. The setting of such a price would act as another proof of the sincerity of those behind the production campaign.

With a supply of labor made available, with implements more easily procurable, and his market safeguarded, the farmer would be in a good position to handle successfully his end of the production campaign.

#### The Income from Investment

LSEWHERE in this issue, Mr. Chas. E. Hope, a British Columbia subscriber, takes exception to the method of calculating the labor income as employed in the recent rural survey in Caledon township. In this survey the farmer was credited with five per cent. on his total investment in land, buildings, stock and equipment. Mr. Hope contends that the basis of computation should be not less than six per cent. for two-thirds of the value of the farm and buildings alone, and not less than eight per cent. for the value of the stock, outfit and the remaining third of the real estate.

In so far as the land is concerned, Farm and Dairy is inclined to regard five per cent. as a fair basis for an estimate. Many farm mortgages are held at this rate, and even in the business world investments as safe as that represented by farm lands rarely command over five per cent. in normal times.

When it comes to improvements on farm land, five per cent. is not a fair basis of computation. A large element of risk is involved which no insurance company will completely cover. Here eight per cent. is not too much, and practically all business concerns charge eight to 10 per cent. interest on buildings and equipment, with an additional charge to cover depreciation. In live stock the risk is even greater. The danger of loss through disease or "bad luck" is ever present, and ten per cent, is the minimum that should be expected on this investment. Such would be a fair commercial rate on other investments involving the same amount of risk.

Farm and Dairy agrees with Mr. Hope that the basis adopted by the Ontario Department of Agriculture is low. Probably, too, Mr. Hope is right in claiming that on the large proportion of the farms surveyed the labor income would have disappeared altogether had the farmer's investment been properly rated. However, we are not inclined to be too critical of the work being conducted under the direction of M . Leitch. It is still in its initial stages, and its weall esses will be discovered and corrected as time goes on. We anticipate that much good will regult from this new line of investigation.

S IR GEO. E. FOSTER, Minister of Trade and Commerce, has introduced a bill in the House gorerning the weight of eggs offered for sale on

any market in Canada. If we read the bill aright it practically prohibits the sale of all eggs that do not weigh twenty-four ounces to the dozen. Already the directors of the Dundas Cooperative Association have vigorously protested. Other associations of producers should voice their protests with equal vigor, as it is poultry producers principally who will suffer should this legislation become law.

Farm and Dairy is prepared to concede that a dozen small eggs have not the nutritive value of a dozen large eggs, and that they should not sell for as much on the market, providing the quality in both cases is the same. If the Minister of Trade and Commerce feels that the present system demands a change we would suggest the equivalent of the "Fruit Marks Act" for eggs. Let eggs be classified for sale. New laid eggs weighing twenty-four ounces or over to the dozen might be in one class, those weighing twenty-two ounces to twenty-four ounces in another, and so on, as a representative meeting of poultry producers and dealers might decide. This would be fair and just to all parties. But to prohibit eggs from being marketed because they fall below a twenty-four ounce standard is just another sample of the arbitrary and unfair regulations which are causing a loss of confidence on the part of producers the country over.

April 4.

U.F.O. T A Toron

Company i lease for a offices on joining the pany. The improvemen and will ha The sto farm produc be kept san cultural im plies handle considerable chose lines this action. portant mov made for so

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United Farm

E ask f ers of New New branch of the ed at Pembrok sent year, and Smith, N. F. Sharpe were a the date of i ruite thorough day we have i any organ New Brunswic

We are using that the Units are organized part of our ra the fact that w tion, and that the rest of Cas no central org forming our ce 18, at Woodsto ting in the org farmers in the brg meeting with of who stand betw and the farmer the farmers an other, but we f but rather help sonsumers here as they feel th middle men gy might be mater

This moveme the Farmers' an tion, in annual fon, March 19-3 Drustastically r where the facili April 4, 1918.

#### FARM AND DAIRY

## In Union There is Strength

U.F.O. Take Important Action

T a meeting held last week in A Toronto by the joint executives of the U.F.O. and of the U.F. Company it was decided to sign a lease for a store, warehouse and new offices on King St. immediately ad-joining the present offices of the com-The new offices will be a great pany. improvement on the present offices and will have an entrance from King St. The store will be used for selling farm produce. In the warehouse will be kept samples of the harness, agri-cultural implements and other sup-plies handled by the company. A considerable increase in trade along these lines is expected to result from this action. It is one of the most im-portant moves the organization has made for some time

The committee dealing with the live stock situation has been active. The executive of the company has been granted power to take certain import ant steps. Action may be taken soon and if so a considerable development in the shipping of live stock by the local clubs through the Central Com-pany may be anticipated.

Representatives of the crganized farmers on the Leave of Absence Military Tribunals have reported that through some official order issued re-cently it has become very difficult to obtain leave of absence for men to work on farms. It was decided to lay the ituation fully before Sir Robert Bord as in the hope of bringing about an improvement.

Secretary J. J. Morrison this week is addressing a series of meetings in New Ontario.

The company expects to be able to handle considerable quantities of binder twine this season.

It was decided not to hold the usual series of district summer conventions next summer. Instead speakers will attend as many meetings of local clubs as possible in those sections where it is believed to be most desir able that organization should be strengthened.

United Farmers of New Brunswick

E DITOR, Farm and Dairy.-You ask for information on the or-ganization of the United Farm-ers of New Brunawick. The first branch of the association was organiz-ed at Pembroke, on Feb. 8 of this preed al Pembroke, on Peeb. S of this pre-sent year, and at fhat meeting C. L. Smith, N. F. Phillips and C. Gordon Sharpe were appointed an organizing ine date of the first branch being the date of the first branch being entit theroughly county has been entite theroughly county has been entite theroughly county for the second day we have the largenized, and to-May organization of farmers in New Brunawick. New Brunswick.

New Brunawick. We are using the same constitution that the United Parmers of Ontario are organized under, and no amal-part of our rapid success is due to the fact that we have a good constitu-tion, and that we are linking up with the rest of Camada. As yet we have no contral organization. We plan on forming our central on one shows hereit forming our central on or about April 18. at Woodstock, N.B. We are get-18, at Woodstock, N.B. 18, at Woodstock, N.B. We are best ting in the organization the very best farmars in the province. We are meeting with opposition from the ones who stand between the manufacturers and the farmers, on the one hand, and the farmers and consumers on the other, but we find that the opposition other, but we find that the opposition from such contress does not hinder but rather helps the movement. The consumers here are cheering us on, as they feel that with some of the middle men gone, the cost of food midth be materially reduced. This movement was krought before the Parmen' and Dairymen's Amoois-tion, in annual seesion at Prederico to, March 19-16, and was most en-fundament in the footing is that this organ-

ization will fill a long feit need. The time is surely ripe here for this movement

C. Gordon Sharpe has been made general secretary pro tem. As soon as the central is formed and officers as the central is formed and office elected, I will give you a list of them. In closing, I wish to thank the offi-cers of the U. F. of Ontario for words of encouragement .--- C. Gordon Sharpe.

## A Real Farmers' Company

THE question is sometimes asked by farmers what here the rive through dealing with our company instead of some other company which may be in a position to sell them goods on equally advantageous terms. Some of our own share-holders have apparently found it difficult to answer this question satis-factorily. There should be no trouble factority. Inere subtration to no totality in doing so. In our cooperative farmers' company, the shareholders and directors are farmers. The profits realized by our company are distibut-ed among the farmers' clubs and the individual farmers who hold stock with us. Our surplus profits are de-voted in part to promote the work of the United Farmers' of Ontario, which is advocating all the great reforms that are so intimately connected with the welfare of farmers in Canada. Any extra profits we may have after these matters have been provided for are used for expanding the business oper-ations of our company and thereby enabling us to buy on better terms and to force other business concerns lower their prices in order that they may compete with us. We can say with every confidence that because our company has been in business other companies have sold goods to the farmers of Ontario during the past four years at prices so much lower than they otherwise would have charged, that it has meant savings of hundreds of thousands of dollars to the farmers of Ontario as a whole. These are only a few of the reasons then why the farmers of Ontario should support and deal through the United Farmers Cooperative Company, Limited.

Looking Ahead in Cooperation E. H. Blatchford, Mgr. U. F. Cooperative Co.

BELIEVE we are past the days of I mailable wave past the days of small business. This year we will pass the million mile stone and opportunity iooms large ahead. The froater the opportunity the greater the responsibility, and this works both ways. We serve and are solved neording. to our relation to solved according to our relative positions. We have reached the stage in our business where I believe we could give more efficient service if we branched out in departments. There are a few lines that we feel could be made profitable in time, if properly handled. Take our live stock, pro-duce and feeds. These are at present only afdel lines and do not receive the attention they desure for the simple reason that we have too much to do as it is. These departments should each have an experienced energetic man, who would devote his whole time to developing them. No doubt this would have to be done at a loss for a time, but there is no reason why they should not be made important parts of pur business and in departments that will be profitable to all. Rome was not built in a day. The company has been doing business for three years and yet when one commiders the possibilities it is only in its infancy.

We have not more than scratched the surface, but it is going to take men and momey to develop it. We want the best brains we can got to manage and direct and plenty of them.

## **Patriotism** Demands Grain Conservation

We must save all we can of the 1918 grain crops, so we shall have enough to send to our armies and insure Canada an adequate home supply.

Thousands on thousands of bushels can be conserved if we feed less grain to cattle.

By substituting silage, every Canadian farmer can do his part in the grain conservation movement, and at the same time increase our milk supply, so we can send more butter-fat to the boys at the front.



## Get more Milk with an **IDEAL GREEN FEED SILO**

An Ideal on your farm will cut 15 to 20% off your next winter's feed bill and enable your cows to give 20 to 25% more milk.

It will "put your cows on pasture" from November to April.

Now is the time to buy your Ideal Silo. You can get it installed before the rush of spring work comes on. Write today for our catalogue.

## THE DE LAVAL COMPANY, Ltd.

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worse than useless, while to find the camp after the moon had set would be quite out of the question. Her own eyes were wide and sleepless. She sat in the sand beside DeWitt until

driven by the cold to pace back and

forth. John slept without stirring; the sleep of complete exhaustion. Rhoda was not afraid, nor did she feel

lonely. The desert was hers now.

There was no wind, but now and again

the cactus rustled as if unseen wings had brushed it. The dried heaps of

cholla stirred as if unseen paws had

pressed them. From afar came the demoniacal laughter of coyotes on their night hunts. But still Rhoda

At first, in the confusion of thoughts

that the day's events had crowded on

that the day's events had crowded on her, her clearest sense was of thank-fulness. Then she fell to wondering what had happened to Porter and Kutle. Suddenly she caught her breath with a shiver. If Porter won there could be out one answer as to Kutlew fate. John's attitude of mind workshe in the ship of the shift o

For many minutes she paced back ad forth, battling with her fears.

thought com-

Then she suddenly recalled the fact that vengeance was to be saved for

forted her. She had little fear but that she could manage John.

she should have been mad with joy over her own rescue, she was giving

all her thoughts to Kut-le's plight! For

girl acknowledged the truth that she

had denied even to herself so long. The young Indian's image returned to

strong appeal to her She knew now that all his unusual characteristics

that at first had seemed so strange to

her were the ones that had drawn her

to him His strange mental honesty, his courage, his brutal incisiveness,

his courage, his brutal inclusiveness, all hed fascinated her. All her days with him returned to her, days of weakness, of anger, then the weeks on the ledge, and the day when she had found the desert, and finally the day just past, to the very moment when

Porter had come upon them on

Rhoda stood with unseeing eyes

while before her inward vision passed a magnificent panorama of the glories through which Kut-le had led her.

Chaos of mountain and desert, re-splendent with color; cool, sweet depth of canon; burning height of tor-

And then in the utter silence of the desert night, staring at the sinking moon, Rhoda asked herself why, when

was not afraid.

together.

and forth.

the ledge

John. This uncanny

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### TE are preparing today for tomorrow's victory or defeat. The Heart of the Desert

(Continued from last week.) S HE looked at the watch. Five hours till dawn. She would let John have all that time in which to sleep. His ten minutes would be

tured peak; slope of pungent pinon Torest-all wrapped in the haze which is the desert's own.

Rhoda knew the truth; knew that she loved Kut-le! She knew that she loved him with all the passionate devotion for which her rebirth had given her the capacity.

With this acknowledgment, all her calm was swept away. With fingers clasped against her breast, with wide eyes on the brooding night, she wished that she might tell him this that had come to her. If only once more the inscrutable tenderness of his black eyes were upon her! If the deep imperative voice were but sounding in her ears again! If only she could feel now the touch of his powerful arms as he carried her the powerful arms as he carried her the long sick miles to Chira. Trembling with longing, her gaze fell upon the man sleeping at her feet. She drew a sudden troubled breath. Must she mounce this new rapture of living? Must she?

"Have I found new life in the desert only to lose it?" she whispered. "O Kut-le! Kut-le!" DeWitt slept on, unmoving, and

Rhoda watched him with tragedystricken eyes.

What shall I do!" she whispered, lips quivering, shaking hands twist-ing together. "Oh, what shall I do!"



#### Getting the Last Drop.

She tried to picture a future with She saw his tenderness, his Kut-le. purposefulness, the bigness of his mind and spirit. Then with a cold clutch at her throat came the thought Rhoda was plunged into the oldest, the most hopeless, the least solvable of all love's problems. Minute after minute went by and the firl, standing

3

by the sleeping man, fought a fight that shook her slender body and rack-ed her soul. At last she raised her face to the sky.

'I want to do what is right!" she said piteously. "It doesn't matter about me, if only I can decide what is right!" Then after a pause, "I will right!" Then after a pause, "I will marry John! I will!" like a child that has been punished and promises to be good. Still another pause, then, "So that part of me is dead!" and "No that part of me is dead!" and she put her fingers before her eyes and fell to crying, not with the easy agonizing sols of a man over his dead. "Kut-le, I wanted you! I wanted you for my mate! If I could have heard you each you fil y angle

you for my mate: if I could have heard you, seen you, felt you once more! Nothing else would have mat-tered. I wanted you!"

tered. I wanted you!" A long hour passed in which Rhoda sat in the sand, limp'and quiescent, as though all but wrecked by the storm through which she had passed. Dawn came at last. The air was pregnant with new hope, with a vasue uplifting of sense and being that told of the reades of a part of the store of the store of the store that told of the coming of a new day. The east quiv-ered with prismatic colors and suddenly the sun appeared.

Rhoda rose and stooped over De-Witt to smooth the hair back from his forehead.

"Come," she said softly. "It's break-fast time!" DeWitt sat up bewildered. Then

his senses returned. "Rhoda," he exclaimed, "what do you mean by this!"

Rhoda's smile was a little wan

"You needed the rest and I didn't!" DeWilt rose and shook himself like a great dog, then looked at Rhoda wonderingly

"And you don't look much done up! But you had no right to do such thing! I told you to give me to thing! I told you to give me ten minutes. I feel like a brute. Lie down now and get a little sleep yourself

"Lie in the sun? Thank you, I'd "Lie in the sun? Thank you, I'd rather push on to the camp and have some breakfast? How do you feel?". "Much better! It was fine of you, dear, but it waan't a fair deal." "I'll be good from now on!" said Rhoda meekly. "What would you like for breakfast." DeWith lowed you like for breakfast." What would you like for breakfast." Bay the same same same DeWith logeset was assuming its researce supert.

brazen aspect

"Water will be enough for me," he answered, "and nothing else, seriously considering a rigid diet for a time."

They both drank sparingly of the

"I have three shots in my Colt," said DeWitt, "but I want to save them for an emergency. But if we don't strike camp pretty soon, I'll try to pot a jack-rabbit."

"We can eat desert mice," said Rheda. "i know how to catch and cook them!"

"Heaven forbfd!" ejaculated De-Witt. "Let's start on at once, if you're not too tired."

So they began the day cheerfully As the morning wore on and they found no trace of the camp, they began to watch the canteen carefully Gradually their thirst became so great that the desire for food was quite secondary to it and they made no attempt to hunt for a rabbit. They agreed toward noon to save the last few drops in the canteen until they could no longer do without it.

Hour after hour they toiled in the blinding heat, the strange deep blue of the sky reflecting the brazen light of the desert. In their careful avoid ing of the mountrin where they rested at sunset the night before, they gradually worked out into a wide barren space with dunes and rock heaps interchanging.

"This won't do at all," said DeWitt at last, wearly. "We had better try for any old mountain at all in the hope of finding water."

They stood panting, staring at the distant haze of a peak. Trackless and tortuous, the way underfoot was incredibly difficult. Yet the dis-tances melted in ephemeral slopes as lovely in their tints, as they were ac-cursed in their reality of cruelty. cursed in their reality of cruelty. Rhoda, unaccustomed to day travel panted and gasped as they walked. But she held her own fairly well, while DeWitt, sick and overstrained

while Dewrit, site and orbitalises at the start, was failing rapidly. "It's noon now," said John a little thickly. "You had better lie in the shade of that rock for an hour." "You sleep too!" pleaded Rhoda. "I'm too hot to sleep. I'll wake you

in an hour."

When Rhoda awoke it was to see Week and dizzy herself, she rose and Week and dizzy herself, she rose and laid her hand on John's, every maternal instinct in her stirring and speak ing in her gray eyes.

"Come, dear boy, we mustn't give up so easily.



On the Inside Looking Out.

his illustration was taken on the farm f Mr. Frank Webster, Victoria Co., Ont., nd shows Miss Berneice Webster and her dog "having their picture taken."

John lifted the little hand to his cheek.

"I won't give up," he said uncer-tainly. "I'll take care of you, honey girl!'

"Come on, then!" said Rhoda. "You see that queer bunch of cholla yon-der? Let's get as far as that before we stop again!"

With a great effort, DeWitt gather ed himself together and, fixing his eyes on the fantastic cactus growth, eyes on the fantasic cadtus growth, he plodded desperately through the sand. At the choila bunch, Rhoda pointed to a jutting lavender rock. "At that we'll rest for a minute. Come on, John!"

John's sick eyes did not waver but his trembling legs described many circles in their journey to the jutting rock. Distances were so many times what they seemed that Rhoda's little scheme carried them over a mile of desert before DeWitt sank to his knees,

"I'm a sick man" he said huskily as he fell in a ump heap.

Nothing could have appeared more opportunely than this new hardship to take Rhoda's mind off her misery of the night. Nothing could have brough John so near to her as his utter helplesaness brought about through his toiling for her. She look-ed at him with tears of pity in her eyes, while her heart sank with fricht. She knew the terrible danger that menaced them But she closed her lips firmly and looked thoughtfully at the mits of water that remained to them. Then she held the canteen to DeWitt's lips. He pushed it away from him and in another moment or so he rose.

Rhoda, fastening their hopes to an-(Continued on page 25.)

April 4, 191

THE UP

Go H<sup>E</sup> giveth scattere ashes. like morsels; blow and the v

16-18 Among my beautiful phot quisite Christs

bank of snow. the very frien I asked her if blossom then said that for s not been move but they were just the same was such a as being there, not visible.

This does a think of those ers growing their covering all of God's v taking place al visible miracle formed throug soon now also be seen in un trees, bursting of spring's wo

Is it because these wonde that we do not praise enough From this won us, we can rev at the wonder Maker of it all can marvel ove could possibly creating such I With our I

how little we c world of snow world of green this is done so that we have n cess.-I. H. N.

Simplicity in

A BOWL or dining ta the attra meal, and if it the year to get den, a fern or i very pleasing housekeeper de "the knack" of tastefully; all of fitably study the decoration.

Simplicity in flowers is hig flowers is hig flowers aimply in a well shape more pleasing t of bloom stuck of conveniently at water. We rec who was a grea who claimed th vessels of diffe and was desiron lection. While gather together flower receptac is a good idea bowls or vases be placed on th

The crowding into a vase mig a solid mass of ed for effect, b that the effect ; ly artistic. Wh ranged in a ma which nature an much more attr flowers arrange such a manner the stalk is vis bare stems add sufficient to reli create a nature though the flo-grow that way show a little di



"Sap's runnin'," is a remark which quite in order these spring days, and the boy shown in the illustration herewith i enjoying one of the pleasures of map sugar making. This shap was taken to the farm of Mr. W. F. Hardy, Victori Co., Ont.

#### THE UPWARD LOOK

#### God's Miracles

H<sup>E</sup> giveth anow like wool; He ashes. He casteth forth His ice like morsels; He casteth forth His ice blow and the waters flow.—Psalm 147; 16-18

16-18. Among my Christmas cárds was a beautiful photograph of a bed of ex-quisite Christmas roses, set in a great bank of now. Lately 1 was visiting the very friend who took the picture. I saked her if there were any out in bossom then that I could see. She will the work jims the snow had said that for some time the snow had not been moved so they could be seen, but they were there under the snow just the same. And she added that it was such a delight to think of them as being there, even though they were not visible.

This does seem 80 wonderful to think of those fragile, beautiful flow ers growing and blossoming under their covering of snow. But think of all of God's wonder works that are taking place all about us, the silent, invisible miracles that are being per-formed through His agencies. Very soon now also miraculous results will be seen in unbound rivers, leafing trees, bursting buds, and all manner of spring's wonder-growth.

Is it because we are so accustomed these wonderful season transitions that we do not wonder, and enjoy, and praise enough the Creator of them? From this wonder of the world about us, we can revere and stand in awe, at the wonder of the power of the Maker of it all. From the beauty we Maker of it all. From the beauty we can marvel over the master-mind, that could possibly have conceived of creating such loveliness. With our limited understanding.

with our manded unnerstanding, how little we can grasp the greatness of the mind, that can transform our world of snow and ice into our other world of green and growth. And all this is done so silently and gradually that we have no knowledge of the process.-1. H. N.

#### Simplicity in Flower Arrangement

BOWL or vase of flowers on the dining table adds materially to the attractive appearance of a meal, and if it is the wrong season of the year to get flowers from the garden, a fern or flowering bulbs make a very pleasing contreplece. Every housekeeper does not seem to have "the knack" of arranging flowers tasterully; all of us, in fact, can.pro-fitably study this small point in home decomption decoration.

Simplicity in the arrangement · of flowers is highly essential. A few flowers simply and naturally arranged in a well shaped vase, dish or bowl is more pleasing to the eye than a mass of bloom stuck carelessly into anything conveniently at hand which will hold water. We recently read of a woman who was a great lover of flowers and who claimed that she had 153 flower vessels of different shapes and forms vessels of different shapes and forms and was desirous of adding to her col-lection. While none of us expect to gather together such a quantity of flower receptacies as this woman, it is a good idea to have several dishes, bowls or vases in which flowers can be placed on the table.

The crowding of a lot of flowers into a vase might be excusable where a solid mass of flowers might be need-ed for effect, but it could not be said ba the effect produced was pleasing-ly artistic. When cut flowers are ar-ranged in a manner similar to that in which nature arranges them, they are much more attractive. Three or four flowers arranged in a flat bowl in such a manner that all the foliage on the stalk is visible, or in the case of bare stems added foliage is included sufficient to relieve bareness, they will create a natural appearance, even (hough the flowers perhaps did not grow that way. The flowers should show a little difference in the length of the stems to prevent straight line arrangem Sweet

AND THE OWNER DESCRIPTION OF THE PARTY OF TH

Sweet peas look well in a tall, straight tumbler. There is nothing better than a low bowl for pansies and violets, while lillies, callas and the violets, while innes, callas and the taller flowers require high vases to give them individuality. Color is the predominant feature in pansies, vio-lets, swet peas and the like, therefore the second link exploited tria they may be massed. But orchids, iris and similar flowers should be arrang-ed so that their form is accentuated; massed arrangements do not suit them

When there is a wide range of tone white to red, and including pinks, it is a good plan to arrange them so that the run from light to dark will be apparent

#### Where Shall the Line be Drawn?

T the recent convention of the A United Farm Women of At-berta, Mra. Leona R. Barritt the secretary, bouched upon a point in her address which is a source of con-siderable perpiexity to many con-ecientious but intelligent and public spirited women. The question under discussion was, under what conditions is a woman justified in confin-ing her attentions to her home to the exclusion of all matters of public interost, or how far is she justified in trying to attend to both. This is the way Mrs. Barritt presented the case:

'I say, intelligent and public-spirit-ed, for the indifferent woman will excuse herself by saying. I have my home and children, and that is enough for me to look after. Now how much we should try to do outside of home is a matter which each woman must settle with her own conscience. When the physical mental and moral wellbeing of children must be neglected a public work is to be done, then it is obvious that the public work must be left in other hands. A wo-man's first and highest duty and her greatest service to the state is in the caring for all three sides of child the caring for all three sides of child life. But a meeting once in two weeks or a month should not imply megiset of either home or children. On the contrary fit should leave a woman botter fitted, physically and mentally to care for both. True sho may have the start of both. to leave the dinner dishes unwashed until her return, but dishes not washed in their proper time cannot be considered a social crime. A far greater crime is the indifference to and want of cooperation in the great move ments of social reform. The selfish woman feaves the working out of better social, educational and economic conditions for herself and her children to women who need her sympathy and cooperation but who only get her criticism

In these days of stress and strain, when the old order is changing and giving place to new, and especially in view of her great privileges and opportunities, the woman who remains aloof and out of gympathy with the strivings of earnest, organized men and women to bring order out of chaos and to make the community, the province and the world a better, saner and happier place to live in, is not only shirking a great responsibility, but it is dead weight, or worse, on society. There are various conditions notes, there are various countions under which a woman can be excused from undertaking a public work, or even attending meetings; but there is no excuse for withholding her sympathy and interest, or the help she might render. Whether we like it or not, we come under one of the two classes. Which it shall be is for us to decide, but whether we believe it or not, care or not. we are shouting it from the housetops by our words and dooda

To make Hamburg steak go farther, beat into it a cup of sweet milk, then enough rolled crackers to thicken well. This will also improve the flavor.





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#### FARM AND DAIRY

**COOK'S CORNER** 

Helping Out Meatless Days

Helping Out Whatless Days W TH the necessity of doing without mests to a large ex-tant nowadays, fruits will probably be used more freely in our menus. To help out the supply of canced truits, we can use dried fruits to advantage occasionally and very paintable dishes can be concotted by using some hent. Biow fruit fo few baba worth are worth trying out:

Date and Cranberry Marmalade.

One quart cranberries, one pound dates (stoned), one pint water, two cups brown sugar. Simmer together for 20 minutes, put through a sieve, add sugar and cook 15 minutes longer.

Stewed Peaches With Raisins.

One-half pound dried peaches, one-quarter cup raisins, one-half cup sugar.

Wash peaches, soak over night with water enough to cover and stew in

water in which they were soaked. When about half done, add the raisins,

which have been washed and seeded, and the sugar. Cook slowly that the peaches may keep their shape and skins become tender.

Prune Puff or Souffle.

One cup chopped or strained cooked prumes, two or three egg whites, one-quarter cup powdered sugar. Chop prunes up fine or pat through strainer. Beat egg whites stiff, add powdered sugar slowly, beating all the time. Fold into prunes. Place in buttered pudving dish, set dish in pan of hot waier and bake in moderäte oven abut 10 minutes. Serve with soft custard made with yolks of eggs or with whipped cream. Other dried fruits may be used if desired, instead of prunes.

Stewed Prunes.

are a dish which anyone should relish

They should be washed and soaked over night. Then heat gradually in

water in which they were sonked an cook slowly on back of range or over

an asbestor mat. They should be kept closely covered till skins are tender,

letting water cook away until syrup is thick. Most prunes contain so much

sugar that lemon juice improves the flavor. They soldom need any sugar

Scalloped Apples.

One pint sliced apples, one pint stale

bread crumbs, one-quarter cup melted butter, two-thirds cup sugar, one tea-

spoon cinnamon, one-half cup water. Mix bread crumbs with butter and put

Mix pread crumbs with butter and put a layer in a buttered dish; add as layer of sliced apples; sprinkle with sugar mixed with cinnamon. Repeat until all material is used, having crumbs on top. Add water and bake in a slow oven

Good Rubber Rings are Essential

Good Kubber Kungs are Essential T HIBTY-FIVE per cent. of the last peolage of canned goods last peer was charged to poor rubber rings, according to reports which come from the United States Department of Agriculture. The ex-perts of this department have invest-gated the part which inferior rings have played in the spollage of canned products and the statement above is a result of their investigations. It be

result of their investigations. It be-hooves us all, therefore, to be very

careful about our rubber rings, as now, more than ever before, we cannot af-

ford to lose fruit through this cause. O. H. Bonson, agriculturist in charge of boys' and girls' extension work, explains the reason for this loss through rubber rings as follows:

"Housewives would carefully can fruit and vegetables according to the approved methods and yet this spoil-

until crumbs are browned.

If properly cooked, stewed prunes

of prunes

added.

One cup chopped or strained cooked

age would occur. This was because of the worklesaness of most of the rub-ber rings used. They canne with the jars and ware intended for the old siyls of caning by the open fettle method where the glass jar and the rubit the settleser. This method ras used for fruits almost exclusively be-ruse there was intil reactively be-ruse there was intil reactively because there was until recently no well known method that would successknown method that would success fully can wegetables and meats. The method instituted by the government required the rubber ring to go into the bolling liquid and the rings in use were of such poor quality that they were ruined by the process."

they were ruined by the process." To meet requirements, the ring should fit closely, requiring a little stretching to get it around the meet of the jar. For standard jars the in-side diameter of the rubber rings about he two and one-quarks of an Tests sheet that afficient in tak inch in thickness is sufficient to take up the unevenness in the jar. Cold ing the unevenness in the jar. Cold pack canning requires a rubber ring that is tough, does not enlarge per-ceptibly when heated in water or steam, and is not forced out of posi-tion between the top and the jar by slight pressure within the jar. The United States Dopartment of Agricul-tare also claims that for the one-per-iod cold-pack method, the ring should be capable of withstanding four hours of sterilization in bolling water. Good rubber rings will atretch considerably and return promptly to place without rubber rings will stretch considerably and return promptly to place without changing the inside diameter. They should be reasonably firm and able to stand bending without breakage. The color is no index to the strength of the ring

## HOME CLUB

#### Who Decides What We Shall Eat?

"AM quite willing to agree with Lloyd George that "the kitchen must help as well as the work shop and the trenches" to win the war. Here is a problem in connecwar. Here is a problem in connec-tion with conserving the food supply, however, on which I wish Home Club members would throw some light. What is a housewife to do if her hus-hand and the other men folk around the farm will not cooperate in help-ing to conserve? It seems to be one of the characteristics of womankind to sacrifice, no matter in what way, but when it commes to asking the men folk to deny themselvas, especial-te close the astime line, there will be a the setting ly along the eating line, they are usually ready to register a kick.

I remember when attending the Women's Institute Convention in Toronto last fail and the question of food conservation came up for dis-cussion, one woman made the remark that it is the men who make it hard for the women to conserve food. "Drop in on a woman at dinner time when her husband is away," she said. "and see what she has for a meal." I felt like saying "Hear, hear," to her statement. Not long ago I had a let-ter from a friend of mine who is a very busy farm woman. Among other things, she happened to men-tion some of the baking and cooking she had been doing that week, and snc nad been doing that week, and one sentence of her letter ran thusly: "I sacrifice in a good many ways, but our menfolk must have lots of good things just the same as usual." The United States Food Controller.

Mr. Hoover, says that the guiding hand of woman can control what the world shall eat. I understand, how-ever, that in the United States about ever, that in the United States about one person in every four is an adult man, and that men consume more thas one-third of all the food caten. It seems to me then that if the win-ning of the war is largely dependent on food conservation, our men folk must be willing to co-operate with us more and thus make this conservawomen and thus make this conserva-tion possible. Most men eat more meat than is good for them. And And



April 4, 1918.

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tising is an insurance policy against forgetfulness - it compels people to think of you



#### April 4

yet our m when the must have to keep u is there th ing meat willing to planning out meat, should be rifice and trial. I w Home Clu AUNT O

C

E by th by us Soot is a a tonic. ith water mixed with oundation Bury all post heap, a layer of sods, or ve add it to t food for th With th less cultiv tools on th to invest hand cultiwhich pull the surfac working d for planting

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in the room in both day light. Some light that a ering is goo kitchen whe ering canno be wiped an dish.

Corn I NE of O Gordon sent i making corn Scrape an

meat drops chop as use sage to tast Mquor in will more if des corn meal. want to use brown. It the ordinary meat questio

#### April 4, 1918.

yet our men on the farm claim that when they are working hard, they must have meat twice a day in order to keep up their strength. What use is there then of the housewife prepar-ing meat substitutes? If a woman is willing to go to the extra trouble of planning and preparing meals with-out meat, it seems to me the men should be willing to make a little sac-rificial twatid like to hear from other Home Club members on this subject. -AUNT GREETA. yet our men on the farm claim that

#### Garden Gleanings

Carden chicamnes NRICH the garden soil, not only by the application of manure, but by using wood ashes, and soot. Soot is a good soil cleaner as well as a tonic. Applied dry or by mixing with water, it is valuable. Least mold, mixed with fresh horse manure, is the foundation petitishipe of the horbor-more heast articling sode unsult down

Bury all vegetable refuse in a com-post heap, turning sods upwide down, a layer of manure, another of weeds, sods, or vegetable parings. Anything of this nature that will decompose, add it to the parten soil and make it food for the plants. With the best of seed, and the richest of soil, the crop is poor un-less cultivatiot. There are so many to invoit. One of the best is the hand cultivator, a five-pronged tool, which pulls out the weeds, works up the surface of the weeds, works up the surface of the weeds, works up the surface of the earth forming a fine earth mulch for dry weather, or working decaper to propare the soil working deeper to prepare the soil for planting. The wheel hoes and cul-tivators are indispensable. Invest in the best garden tools and exercise them frequently.—A. A. F.

#### Ideas on Papering Nellie E. Maxwell.

FOR the housekeeper who has to economize (as a large majority of our housekeepers do, which makes life interesting) and who finds it ne-cessary to repaper because the walls cessary to repaper occause the walls are faded, calsomine may be used with good effect. It is very satisfac-tory even over cheap paper if it is firmly attached to the wall. If there Brmhy attached to the wall. If there are any loose portions they should be carefully pasted and dried before put-ting on the calisonniae. Put the calas-mine on the ceiling first, of course, to are spattering the side walls. A long stroke down the length of the paper makes a smoother finish than if put on with a side stroke. This is a varies of time as well a If put on with a side stroke. This is a saving of time as well as money and one need not tear up the house, as a careful worker will do no spat-tering. Cover a green paper with a green calsomine and the walls will look fresh and new. Usually one coat is sufficient to cover; but two may make a hotter furth.

is summinent to cover, but two may make a better finish. In rooms that have only north light a paper with a good deal of yellow will add the desired sunlight color to the room. A paper should be tried in the room in which it is to be used, in both daylight and with artificial light. Some colors so absorb the light that a cheerful room at night is impossible. An oil cloth wall cov-ering is goed in the bathroom or the kitchen where a more expensive cov-ering cannot be afforded. This can be wiped and cleaned as easily as a dish.

Corn Meal Head Cheese

NE of our subscribers, Mrs. Wm. Gordon of Simcos Co., Ont., has

Gordon of Simcos Co., Ont., has sent in the following recipe for making cern meal head cheese: Scraps and clean head and boil till ment drops off bones. Take out and says to taste. Add about half the liquer it which meat was bolled, or more if desired, and thicken with corn meal set away and when you want to use it, slice it thin and fry. brown. It will go bwice as far as in the ordinary way and helps out the meat question. meat question.

#### FARM AND DAIRY



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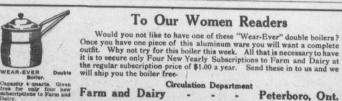
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## Spring Hats and Summer Dresses

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ANT-dirf. Dress-The young girls subs are going to have new dresses this merics will be suggery to samining the fastion subsame, for, as a rule, they see Just as a subset to be dressed to subject will, me double, superation many of are girls. This size is 5, 10, 12 and 10 parts. 2154-dimension Bet.-This is fan's set considers of a cap, a mark, a mithi-parts to be the smaller throw this set both when completed. It is cut in but one size.

one size

one size. 2433 — A Prestey Negliges — During the winter months we sometimes pick up a pretty pices of material, for making material on hand will be interested in the illustimut here above. Four sizes, with medium, here above. Four sizes, and the medium, here above. The size material on hand will be interested in the size of the size of the size of the size of the size, we size of the size of the size of the size, we size of the size of the size of the size, which size the size of the size of

laminoten according to this design. Biff-linky sint - We have and creater for boys in our fahlion columns, and herewith its a nation with which thesis the links of the trougers are inside which is a variation from some have which is a variation from some have which is a variation from some have satis. Four insist, 2, 4 and 5 years. 2446-Lady's Almon. Aprens will aver which is a variation from some have satis, four sizes, 2, 4 and 5 years. 2446-Lady's Almon. Aprens will aver which is a variation from some may which is a variation. Aprens will aver which is a variation from some may we appeal? The back very shows the unique affect of the belt. Four means the appeal? The back very shows the anime appeal? The back very shows the anime appeal? If have a truther and orders for our new spring and summer catalons, but we trust meany more of Or Womm Belk will take advantage cents when ordering patterns, which will entitle them to a copy.

April 4, 1918.

#### Strout's New Spring Farm Catalogue

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FOR SALE-Cheese Pactery, in god daky shartist north of Watford. Onl. Fully equipped, large curing room, going concern, with make of 194,000 the last pear, with prompects for large increase this season. Frice \$2,000.0 Apply Mr. Cheese Factory, Box 123, Petroles, Ont

April 4, 191

#### The He (Contin

ather distant again. But little light-he tus danced a molten iron or they traveled. erazily: "'Twas bril

Did gyre an All mimsy And the mo DeWitt lang That's just Rhoda. But ; I am."

Rhoda jerke wollen tongu "We must ta

you are crazy "Good idea!" I'm crazy all t 'O frabjou He chortled

Rhoda patte "Poor John! was not worth

have an Apacl heart is right rolled down he DeWitt looke

"Yoù aren't haven't emoug moisten my e am so cracke have to monk we come to be Rhoda laugh turned away w

'It's not a jo How long th gering, circuito their goal of knew. She knew tingting and so her back a st she took forwas repeatedly offe water to John a refused it, urgin that the pulp of she tried to c mwdust in her her. Then sude to refocus her cholla, it appear hand. Afraid to new goal in a fi DeWitt's unres struggled forwa

And so on an mearing goal; n now pausing to Witt's cracked aimlessly throu verse that seem propriate to the to Rhoda that h ing as she wa space through John's voice did "Alone! Alone

Alone on a w So lonely 'twa Scarce seeme Hush John! Rhoda.

"Alone! Alone "But I'm with pleaded, but De heeding.

The way grew The desert floor sand dunes, a ri billows over wh ants over a new bollow of each w ing in the sand, scorching, the a of each they res their parched eki patused to rise a delirium would the mist lifted once more the d self upon her vi "Come, John, We can't keep

## FARM AND DAIRY

#### The Heart of the Desert (Continued from page 20.)

other distant choira, led the way on again. But ahe too was growing a jittle light-headed. The distant cac-tus danced grotesqualy and black spots filted between her and the moltan iron over which her fancy said they traveled. Suddenly she laughed arazily:

"Twas brillig, and the slythy toves

Did gyre and gimble in the wabe; All mimsy were the borogoves, And the mome raths outgrabe!

DeWitt langhed hoarsely. "That's just the way it looks to me, But you're just as crazy as Rhoda. I am.

Rhoda jarked herself together and tried to moisten her lips with her wollen tongue

"We must take it turn about. When you are crazy i must try to be sane!" "Good idea!" croaked DeWitt, "only I'm crazy all the time!"

"'O frabjous day! Calloo! Collay! He chortled in his joy!'"

He chortled in his joy!" Rhoda patted his hand. "Poor John! Oh, my poor John! 1 was mot worth all this. You may not have an Apache's strength, but your heart is right!" Two great tears but down has chasks. rolled down her cheeks.

DeWitt looked at her seriously. 'Yoù aren't as dry as I am. haven't emough moisture in me to moisten my eyeballs, let atone cry! I am so cracked and dry that you will have to soak me in the first spring we come to before I'll hold water." Rhoda laughed weakly and John turned away with a hurt look, "It's not a joke!" he maid.

How long they were, in their stagnew long they were, in their stac-gering, circuitous course, in reaching their goal of cholla. Rhoda never knew She knew that each heavy foot, ingting and scorched, seemed to drag her back a step for every one that he took forward. she took forward. She knew that she repeatedly offered the last of their water to John and that he repeatedly refused it, urging it on her. She knew that the pulp of the barrel cactus that ahe tried to chew turned to bitter sawdust in her mouth and sickened her. Then suddenly, as she struggled to refocus her wandering wits on the cholla, it appeared within touch of her hand. Afraid to pause, she adopted a new goal in a far mesa, and clutching DeWitt's unresponsive fingers she struggled forward.

And so on and on toward a never nearing goal; now falling, now rising, now pausing to strive to hush De-Witt's cracked voice that wandered aimlessly through all the changes of verse that seemed to his delirium ap-propriate to the occasion. It seemed to Rhoda that her own brain was reeling as she watched the illimitable space through which they moved. John's voice did not cease. "Alone! Alone! All, alone!

Alone on a wide, wide sea!

So lonely 'twas that God himself,

Scarce seemed there to be!" "Hush John! Hush!" p

pleaded Rhoda

"Alone! Alone! All, all alone!"

repeated the croaking voice. "But I'm with you, John!" Rhoda pleaded, but DeWitt rambled on unheeding.

The way grew indescribably rough. The desert floor became a series of sand dunes, a rise and fall of sea-like billows over which they climbed like ants over a new-plowed field. In the hollow of each wave they rested, sinking in the sand, where, breathless and scorching, the air scintillated above their motionless forms. At the crest of each they rested again, the desert wind hurtling the hot sand against their parched skins. Frequently John rafused to rise and Rhoda in her half delirium would sink beside him until the mist lifted from her brain and once more the distant mesa forced itself upon her vision.

Come, John, we will soon be there. We can't keep on this way forever

and not reach some place. Please come, dear! "'He maketh me to lie down in

green pastures. He leadeth me beside still waters. He restoreth my soul-"" "Perhaps there will be water there! O John, dear John, if you love me,

Rhoda Tuttle. "O for a draught of vintage that hath been

Cooled a long age in deep delved earth!"

"Please, John! I'm so sick!" The man, after two or three at-tempts, staggered to his feet and stood swaying. "God help me!" he said. "I can

do no more (Continued next week.)





FOR the war against hunger as well as for the war against the Hun. For every Canadian fighting overseas, at least two on farms at home are serving none the less effectively because they wear neither uniforms nor marks of rank or valour.

Long and strenuous days are theirs, without leave or furlough ! a steady drive through the daylight hours to keep the work abreast of the season, and save the crops so sorely needed to feed our fighting men.

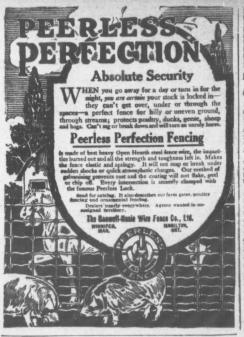
Only those who spend such days can realize how good it feels to have a "washup" and a clean Gillette shave at nightor how it fits a man to enjoy the evening's : t or pleasure of the trip to town.

The busier you are going to be this

summer, the more you'll need a Gillette Safety Razor, with its clean, comfortable, five-minute shave. And the better you know and like good tools, the more you'll appreciate the simple mechanical perfection that gives the Gillette such a lead over every other rezor.

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## The Makers' Corner and Choese Makers are in-send contributions to this ent, to ask questions on

FARM AND DAIRY

ask questions aubjects for dia nccor

Pasteurizing Cream and Butter NE of the outstanding features in connection with the past year's creamery business in Manitoba that deserves more than passing notice, is the adoption of effactive pasteurization of cream for butter making by a large number of the creamerics. We are glad to re-port that 78% of all butter manufactured this year has been made from

properly pasteurized cream. Although the equipment necessary to perform this work entails a large expenditure, the creamery operators have been prepared in a large number of cases to meet this cost, and are fully alive to the importance of maintaining the high standard which Manitoba butter has now reached. One operator, who required persuas-ion before purchasing a pasteurizer at cost of \$1,050 in May, volunteered an statement in August that the the wat had already more than paid for itself, in the extra prices received for his butter through increased grades. This fact is still more significant when we realize that a large percentage of the increased prices received by the creamerymen, as a result of improved methods of handling the cream, finds its way into the pockets of the patrons of the creameries.

The temperatures generally advo-cated for pasteurizing cream for butter-making previous to 1916 were 140° to 145° F. held for 20 minutes. temperatures effectively These posed of the micro-organisms, and to a lesser degree eliminate the free, fatty acids from the butter fat, but at least some of the unorganized ferenzymes will survive to ments -07 carry out their function of deteriorat-ing the resulting butter. We found that in order to secure the results we really wanted, it was necessary .0 uso somewhat higher temperatures than these, and the temperature of 165" to 176" F. held for 10 minutes, was recommended, as this tempera-ture is sufficient to destroy both bacteria and enzymes, which are un-doubtedly responsible to a large ex-tent for the deterioration of butter in storage

We found that butter made from cream wih a low acidity (.3.3%) and treated as in this manner, will hold up in storage for a period of twelve months, where butter made from raw or improperly pasteurised cream will show a decided deterioration in a few months. The general adoption of pasteurization, with a low acidity cream, will place our dairy industry upon a practically new basis, more particularly in relation to the export Very satisfactory reports have trade. been received from a number of wholesale produce firms, both East and West, in regard to the butter which was made from properly pa-teurined crann-La. A Gibson, Dairy Ccumissioner for Manitoba.

#### Save Whey Cream

is essential that the whey from Cheddar cheese factories be separ ated for two reasons: first, the world shortage of food products and especially of fats is so great that a waste or partial waste of any product fit for human food is almost a crime; and second, the financial returns are and second, the financial returns are such that no factory can afford to leave the whey unseparated. There is no longer any question about the ad-visability of whey skinnning. Butter at fifty cents per pound is too high to feed to hogs. Fat can be purchased much cheaper in feeding stuffs. Besides, even if the whey is not skimmed only a small part of the cream ever reaches the log trough. Most of it sours on top the whey tank and is then discarded as waste.

PU 4 TOTA

then discarded as waste. Before as are the results of three factories in Vermont State that skim-med whey last season for the first time. These results agree with re-sults which have been obtained by Ontarlo whey-butter makers. (And in this connection it may be of interest to know that of \$29 cheese factories in Eastern Ontario, 151 new make hutter)

Factory No. 1 put in whey skimming equipment and operated for about sin equipment and operated for about six months, during which time 1,185,500 pounds of milk were received. The whey from this yielded 3,543 pounds of butter or about three pounds from of butter or about three pounds from the whey from each 1,000 pounds of milk. After paying all running er pense, including labor and interest and depreciation on equipment, this venture netted the patrons (the arrange ment was cooperative) \$552.14 or 7.44c

er hundred pounds of milk. Factory No. 2 equipped in the mid die of the season, thus actually ning less than four mouths. In THE In this time 424,300 pounds of milk were made into cheese, the whey from which yielded cream containing 1,579 pounds of butterfat or 2.7 pounds per hundred. The net returns were \$438.22, equal to 10.3c. per hundred pounds of milk. This was also strictly a cooperative

The cost of equipment for these two The cost of equipment for these two factories averaged \$535. Interest and depreciation were figured high at twenty per cent. for a season of six months or 1.3c per 100 pounds of mik-from which the whey was shimmed. The fuel and eil cost averaged 1.0c. and the labor cost was 2.17c making a total expense of 4.47c for skimming the whey from each 100 pounds of and were transfer your out of the second sec

relation y less a solution of the work of a private calcinguiste, established the gross relations being given the patrons as their share. The milk received was 1,455.200 pounds, but considerable whey was not skimmed, owing to a shart dowin for repairs. How over, 3,434 counds of butter were made, the pat-\$748, or 5.21c per 100 pounds of milk. These three illustrations prove that whey skimming pays.

Mr. M. Robertson, President of the Believille Creamery, Limited, has been again invited by the Agricultural De-partment of the Government of Nova partment of the Gavernment of Nova Sentia to takine charge of the class for creamery managers, which is held in Truro, Neva Sentia, between March 13th and 36th. Creamery owners and managers "from Neva Scotia, Nev Pranswick, and Prince Edward Island attend this course.

A number of firms in the United States are recommending the use of metal containers in which to freeze a supply of ice on the farm. Some of these outfits are now patented and in use in several States. Since none of these have been tried out in this part of the country, one cannot vouch for their practicability. Whe chief ad-vantage of such a home ice making outfit is the probable purity of the ice. Many people who object to the use of water from streams and ponds, even for cooking purposes, do not hesitate to put ice from such places in drinking water or tea

said the temperance "I," said the temperance man, "strongly object to the custom of christening ships with champagne" "I don't," replied the other man."I think there's a temperance lesson in 12."

"How can that be?"

"Well, immediately after the first bottle of wine the ship takes to wates, and sticks to it ever after."

#### April 4, 1918.

Should Farme ing (

(Continue and bring about Another that the reason was because th economical metl they did not w farmers, was be farmers were i few lines which handle the mos ignore the other A Revolt A

Hon. Geo. La spoke right to operative tradh farmers," he sai the prices they Year by year, fa were going behind in too many ca lationship betw ers paid for the cost of these g there was a reli cost of the artic their price to th make up their n tive movement bound to go ahe movement amor he said, "don't bination on your of business. On operators, tried ness when we a vators and fore ment would quic You know t sary, we are pre our own goods i sell them to our tions. We will ject settled until where the sale determined by the on the part of b basic principle, failure.

Lack of time i complete the di is doubtful, even more time, if a c been reached. was appointed to matter comprise the farmers, th wholesalers. It meeting. In the ers purpose co their trade oper they find desiral that it may not Canada before th ate their own ma a considerable s wondered at, the ness interests an der where this a farmers is likely outcome is going tunate that som to suffer in the in ing place from o supplying the far

Farming in a 1 some paintings. theatre and adr magnificent dro hampings. Later examine closely seemed on close of daubs of pai tion I mean that right perspective

Growing anima and muscle mai than fat. Oats a st themsel bination for your

Along towards comes dusty an most any hay is lish by the cow water before fee

#### April 4, 1918.

#### Should Farmers Embark in Trading Operations (Continued from page 17.)

and bring about a better understanding Another manufacturer replied that the reason they dealt as they did was because thay found it the most economical method. The main reason they did not want to trade with the farmers, was because they found the farmers were inclined to pick out a few lines which they found they could handle the most profilably, and to ignore the other lines.

A Revolt Against Conditions.

Hon. Geo. Langly, for the farmers, spoke right to the point. "This co-operative trading movement among farmers," he said, "is a revolt against the prices they have been charged. Year by year, farmers found that they were going behind. They noticed that in too many cases, there was no re-lationship between the prices farm-ers paid for their goods, and the real cost of these goods. Until country merchants and others recognized that there was a relationship between the cost of the articles they handled and their price to the farmer, they might make up their mind that the coopera tive movement among farmers was bound to go ahead. "Because this movement among farmers s small," he said, "don't think that any combination on your part can put us out of business. Our friends, the grain bination on your part can put us out of business. Our friends, the grain operators, tried to put us out of busi-ness when we started our grain ele-vators and forefold that our more-ment would quickly collapse. But has it? You know the answor. If necessary, we are prepared to manufacture our own goods in order that we may sell them to our own local organiza-tions. We will never get this sub-ject settled until we reach the point where the sale price of the goods is determined by their cost. Any effort on the part of business men to re-ar-range (methods which ignores this basic principle, is bound to prove a failure

Lack of time made it impossible to complete the discussion, although it is doubtful, even if there had been more time, if a conclusion could have been reached. The committee that was appointed to further consider the matter comprises representatives of the farmers, the retailers and the wholesalers. It will report at a later meeting. In the meantime, the farmers purpose continuing developing their trade operations in every way they find desirable. It is understood that it may not be long in western Canada before they commence to operate their own manufacturing plants on a considerable scale. It is not to be wondered at, therefore, that the business interests are beginning to won-der where this movement among the farmers is likely to end, and what the outcome is going to be. It is unfor-tunate that some of them are likely to suffer in the transition that is tak-ing place from old to new methods of supplying the farmers' needs.

Parming in a way is something like some paintings. I once was in a big theatro and admired immonsely the maniform forgo curistin and stages humines. Later I had a chance to examine closely the canvas, and it seemed on close inspection a series of daubs of paint. By this illustration is a series of our own work.

Growing animals are in need of bone and muscle making material rather than fat. Oats and bran immediately suggest themselves as an ideal combination for young animals.

Along towards apring clover hay becomes dusty and in late spring almost any hay is eaton with little relish by the cows. Sprinkle with water before feeding is a help.

# Butter Prices Will Be Maintained

THE Food Controller for Canada states: "I do not expect that the sale of olecomargarine will result in any reduction in the price of butter. The overseas demand is practically unlimited— For years after the war Europe will require all the butter which Canada camproduce for export, and the prices are certain to behigh."

FARM AND DAIRY

High prices for butter make every pound of butter-fat saved a source of extra profit that is a revelation to many farmers and dairymen. The



saves you about one half-pound of valuable butter-fat, per cow, per week, over other machines, even if they are in running condition, and much more if they are not running properly. Multiply this half pound by the number of cows in your herd and then calculate what this means to you in dollars and cents per year. Will if pay you to continue long money by using an ordinary machine'. The Renfrew gets all but the last three ounces of butter-fat in a ton of milk skimmed.

Which would you rather

sell at present prices? 10 Gallons or 7 Gallons of good firm butter-fat butter fat from other from the machines Renfrew which lose a whole pound but 1-10 in 1,000 lbs. ndi 1,000 lbs. of milk skimmed.

Beildes quantity, the Renfrew gets guafity. Good first-class cream means globules of fat unbroken, and better, firmer butter, This high quality of cream is secured by the exclusive curved wing centre-piece of the Renfrew, which distributes the milk to the discs in this heets, and prevents the algoing of milk and breaking up of the fat globules, which occurs with the ordinary straight wing machines.

Our illustrated booklet gives Government Dairy Schools proofs of the close skimming. Also read about the Renfrew's exclusive interchangeable-capacity feature, self-oiling system and many other modern advantages. Write for booklet today.

NOTICE.—The Renders Separater illustrated here was for mady add todor the same. "Standard, "which identified it as a high efficiency matching for average of the same separate in these markets as more than under that name has become as genited in these markets as more than the same separate set of the same set of the same set of the opport of the same set of the same set of the same set of the opport of the same set of the same set of the same set of the opport of the same set of the same set of the same set of the opport of the same set of the same set of the same set of the same set of the same throughout the world.

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Eastern Branch : Sussex, N.B. Agencies almost everywhere in Canada Our Other Lines : Ranfrew Karosene Engine, Happy Farmer Tractors, Farmers 2,000 lb. Track Scale, Wood Saws, Grain Grinders. 13



# Baby Chicks—Eggs for Hatching

Now is the time to have your orders coming in fer these. Shrewd positrymers are now getting ready for the spring hatch. They are on the lookout for anypies. Get your name before these follows. Do it now, before they have placed their spring orders. Your best time to advertise will be in

## April and May

These insues will cover classly the whole poultry situation, including better flocks. It will be a great stimulus for pure breds on hundreds of farms, or a change of breeding strain.

Whether it is ducks, greese, turkeys, or one of the many breeds of hens, have an attractive advertisement with us in these coming moniha.

FARM AND DAIRY, Advertising Department, Peterboro, Ont.



BY CHICRE W. PACE. To driving the action of the second sec

BOOK DEPARTMENT, FARM AND DAIRY, PTTERBORO



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Made in twelve sizes, 1½ to 28 H. Each size furnished in station ary, semi-portable or portable style, with hopper or tank-cooled cylinder.

#### April 4, 1918.

tion." He depresated the general be tion. He depresated the general be-lief that milk was produced practical-ly without cost once the grass is green, placing the really good pasture season at just five or six weeks.

#### The Motion Introduced.

Mr. R. F. Hicks, in introducing the measure, said that to cover losses of cent months the price of milk should recent months the price of milk should advance, but counselled avoidance of anything that would stir up violent opposition, Mr. Jao. Newhouse of Sneigrove, seconded the motion. But the melaion was not due for a semoth passage. Mr. Doherty of Mai-ton, quesioned M the best way to shik the price of production shik the price of production shift be of than over of production and referred to the milk familia of the

mink at less than cost of production and referred to the milk families of the New York and New England States, which resulted from exactly this policy. He then quoted the results of an investigation conducted from Ottawa in 1917 on 25 farms and with

would point out that in spite of the milling upon millions of delays the Deminion and various Pro-vincial Governments of Canada to provide settlement in Canada sericultural workers from Europ-neoutives and the United workers from Europ-tion countries and the United workers from Europ-tion countries and the United workers from Europ-tion countries and the United workers from Europ-traugh our various departments of Apriculture Imake farming of Apriculture Imake Ima

tiver, with a second profitable than the second profitable that where a selection of the second profitable that where a selection of the second profitable that the second profitable that the second profitable that where selections of the second profitable that the

460 cows. The total average cost per cow was \$170.26 and the re-ceipta \$178.84, if the producer received

29 cls. exilon net. Since these in-vestigations, said Mr. Doherty, the price of feed had advanced 10 per cent. He, therefore, moved an amend-ment that the price be \$2.75 per can.

W. A. Naples of Scarboro Jct., see onded the amendment. Keen discus-

sion ensued which brought out the

sion enduced which brought out the strong feeling of the audience that from a business standpoint alone the price called for by the motion was not sufficient. This was what Mr. Doherty had expected of his amend-

ment and when the subject was well discussed he withdrew it but served notice that at the next meeting he

would call for a price that would cover cost of production plus 10 per cent profit. The motion then carried unant

mously. The meeting then placed fixelf on record as unaliterably opposed to day-light saving and adjourned.

would point out that in spite of the

#### Can Returned Soldiers Succeed on the Land?

<text><text><text><text>

transportation systems. In proof of this statement we

ing to exist between producers and ing to exact between producers and consumers. So the price for the next five months will probably be \$2.50 per eight gallon can, delivered at the dairies and 66 cts. a pound builter fat for sweet cream, cans and jackets for sweet cream, cans and packets supplied and express paid. The meeting also took advantage of a good opportunity to register their en-tire disapproval of the daylight sav-ing measure now before the House at Ottawa

Pres. E. H. Stonehouse, in opening the meeting, emphasized the import-ance of production and expressed his regret at the too general disposition of city people, their press and repre-sentatives in parliament to criticise sentatives in parliament to criticize the farmers as profileers. "I have talked with hundreds of milk pro-ducers," and he, "who have stated that they would rather be in any other business at the present time, but who will stay in it because they feel that they must maintain produc-

A Tone of the greatest meetings ever held by the Toronto Milk Producers' Association it was decided last week to ask for a condecaded last week to ask for a con-tinuation of winter prices through the summer months. The meeting was great both in numbers and in the spirit displayed. All speakers agreed that the price set last fall had not

been high enough in view of condi-tions that developed later in the sea-son. There was a general feeling, too, that even a continuance of winter prices through the summer would not leave a margin of profit on produc-tion for the entire year and yet the producers were willing to leave prices as they were rather than endanger

**City Milk Supply** 

**Toronto Milk Prices** 

# **Alpha Gas Engine**

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You want an engine that will always RUN when you want it to. That is the kind of an engine the ALPHA is.

There's nothing complicated about it-no fragile electric batteries, no attachments that puzzle you. Every part is sturdy-built of the best materials-and will stand up under hard work.

and win scane up uncer mark work, You simply oil the Alpha, turn on the fuel—either gasoline or kerosene—give the flywheel a turn, and your engine has started charging sway on an all-day rum. You can go away and leave it—pumping water, rumning i feed-cutter or doing any of the many other things you want it to do. Any one of the thousands of Alpha owners in Ganada will tell you that you can-mot do better than to use this engine.

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#### Tests A

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tainly dome a ing the Holste and any system be of great ad defects. It de persistent a mi it may be an a big seven day it may be an i big seven-day that will dry of greatest object tests, even 30are no indicati age of the cov

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Dairy F Eccles &

This is a new subject and is formation for subject and is formation for man. The treated their non-technical ly readable at produced one authoritative subject of d Whan you h hook a week y us for putting with it. Spie in hard linen c

Price 1 Boo't Dep Farm & Dairy,

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#### Tests A Western Opinion

DITOR Farm and Dairy: The dis-E cossions in Farm and Dairy: The dis-some other publications on the relative marks of the official abort-tims test and the semi-official or R.O.P. test has been rather interest-en and fallers in settier interesting, and I believe is rather important to Holstein breaders.

The official sevenday test has cer-tainly doze a great work in advanc-ing the Holstein breed. It is a test system that has been widely used, and any system of testing cannot but be of great advantage. It has some defects. It does not indicate how defects. It does not indicate how peristent a milker a cow is. In fact it may be an advantage in making a big sweet-day record to have a cow that will dry off early and easy. The grantest objection I see to these task, even 30-day once, is that they are no indication of the fat percentage of the cow's normal milk. Little, if any, improvement has been

made in the average quality of Hol-stein milk, and it is largely because there has been so little information about the normal fat content of the milk of the various families of the breed. There is nothing that would do so much to make the Holstein cow unapproachable as the foremost cow unapproachable as the foremost dairy breed as to have the average fai percentage of Holstein milk raised even a half of one per cent. This should be a quite possible at-tainment without lowing any of her great milk production. If the normal fat production of the various families ascertained by a lot of yearly tests a big step would have been tak en towards improvement in this direc tion. At the present time some of the most popular strains of Holsteins. many of whose members have made many of whom memories neve many big official butter records, are really, as far as yearly records show, low testing strains, and their general use may be really a backward step in breeding.

#### The Yearly Test.

The main objections raised to the yearly test are that it is expensive, that it hurts the cow, and that it is not accurate

As to the expense, the R.O.P. tests is paid by the Department of Agriculture, and as most peo ple are keeping cows for the milk that they give, it is surely no great

Price \$1.50

Write at once to Boo's Department Farm & Dairy, Peterboro

When writing ad-

vertisers mention

Farm & Dairy

exponse to keep a recerd of the pro-duction. The main object sheads be not to break records, so much as to have records of the productions of a lot of .eows. There are lots of Hoi-stein cows that will show good rec-ords if they are given a chance without any expensive additions to the ordinary feed and care. The good R.O.P. records have not all or mainly been made by rich men but most by the farmers, and are pretty generally scattered. No doubt a lot of expense can be made trying to put a big record on a poor cow, but a good cow can make a good R.O.P. record with-

As to it harming a cow to do R.O.P. tests it seems to me a libel on the bread to make the claim that they cannot stand anything but a short test without danger of harming them. Per sonally my experience has been that 12 is a great developer of cows to make them produce as much as can profitably be done. Has there not been tots of harm done by excessive fitting and feeding for seven-day records? No doubt a cow can be hurt by overfeeding or wrong handling, but the blame should be put where it be-longs—on ill-advised feeding, not on testing. The great records made in swer to this objection. The greatest long distance producer, Tilly Alcartra, goes on year after year making huge records, and also at nine years of age has six calves.

#### Acouracy of R.O.P

It has been suggested that the R.O.P. is not accurate. Supt. Gar-diner, of the A.R., has stated that in the cases where comparisons with official work were possible the results were approximately the same. There has been only one case, I believe, where a cow on official test was also in the R.O.P.-the cow, Lady Pletje Canary Jewel. The R.O.P. estimate of the butter fat was almost identical with the official figures for the year. Any changes in the R.O.P. rules that

will induce more areeders to test will be a good thing. Personally I think they are very satisfactory now. A man can milk only twice daily for nine or ten months, or he can milk four times for the year, or even, if he wants a test without breeding, till it over, it is possible. A11 these

R.O.P. reports, and one can, knowing these things, make comparisons. No one would expect a cow that was milked twice a day and calved in 11 months to equal one that milked four times and calved in 15 months, but knowing these things we can estimate the relative value of the records and the cows

Tests are made to locate the go cows. Both the men doing official short-time tests and those conducting semi-official testing, if they are not trying to put big records on poor cows, are doing service to the breed and need commendation. Those deserving condemnation are the ones not test ing at all

I believe it is harder to put a good R.O.P. record on a poor cow than to put a big R.O.M. record on her. With the assistance that the Department of Agriculture gives we should have a great many more semi-official records made.—B. H. Thomson, Boharm, Sask.

## APICULTURE

#### Treatment For American Foul Brood.

MERICAN foul brood is now A pretty well distributed over the south-western portion of Ontario. Unlike European foul brood, this case may be present in some colonies of an apiary for several seasons before it is finally spread throughout all the colonies. It has this feature, however, in which it is worse than European, that no known race of bees is immune to this disease.

The disease may be known by the characteristic glue-like odor, by the brown scales in the lower side of the cells, and in the case of larvae which have not reached this stage by the ropiness of the putrifying mass. The cappings of any diseased larvae which may be capped will be found to be darker than normal and to be somewhat sunken. Usually these cappings will also be found to be perforated.

#### Its Worst Feature.

The worst feature of the disease is that as the bees are unable to remove the dried scales from old cells on account of their glue-like nature, honey

is stored in these cells, becomes inco lated with the disease, and so serves as a carrier for the bacteria to other larvae. On this account also, honey from a diseased apiary is a dangerous source of infection for other apiaries. This is especially noticed in bee yards in the vicinity of cities, where the bees have a chance to clean out old honey recentacles

(20)

The treatment for this disease must be given when a good honey flow is being harvested. Colonies should first be strengthened by uniting two, three, or four together. The principle underlying the treatment is that all diseased broad, comb, and honey is taken away from the diseased colony and stroyed. Thus the only time w de when treatment should be attempted is when there is plenty of honey coming in to supply new food and materials from which new comb may be built to re place that which has been removed It is not enough to take bees from their old comb and put them on new drawn combs, for they will carry a certain amount of honey in their honey sacks and will store this in the new combs The principle adopted in treating this disease is that no comb be given the bees-only a little strip of foundation to show the bees where to build their combs. By this means the bees are forced to use up the diseased honey which they may have in their honey sacks in the building of comb.

#### Treatment.

In treating the bees, the old hive us removed from the stand and placed a little to the rear. A new hive is placed on the stand, with new frames in which are placed starters of about one-quarter on an inch foundation. The here are brushed into this off the old bees are brushed into this off the old combs rather than shaken, for it has of the diseased honey is liable to drop into the hive and cause infection. Precautions must be taken to prevent the bees from swarming out of this hive. A good plan is to place at the bottom of the hive a queen excluder, to pre-vent the queen from deserting the hive. On the third evening after the opera-

tion, the bees should be examined their new home. All the comb which they may have built should be removed and melted down into wax, for fear they may contain any spores of the disease. Full sheets of foundation are then given, and the treatment is complete.-S. R. N. H.

14 circumstances are recorded in the The "How" and **Cockshutt 2-Row Cultivator** "Why" of Cow Testing Just these questions and a hundred and one of a kin-dred sort that arise in the mind of the dairy farmer are answered in The Allies' hope for food lies in Canada. One sure way to raise more food is to keep Dairy Farming the weeds from choking the Eccles & Warren field crops. Ecces & warren the is a saw book on the advect and is a mine of in-ormation for the dairy-na. The writers have in-child and pleasants readults atyle, and have roduced one of the measu-traductive works on the bind point have had the bind point have had the bind point have bind the point have point of the measure the point of the point of the the the point of the the Take your corn and other row-crops, for example

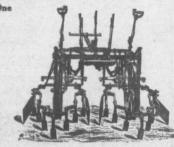
you must have them cultivated and you must be able to do the work quickly, efficiently and perhaps with "green" help. Here is an implement that answers all these requirements. It enables two rows to be cul-tivated at once-by anyone who can drive -with no more trouble than one row. It is the light-draft, all-

# Cockshutt No. 5 **Row-Crop** Cultivator

Handy levers control the testh—and crossed rows are cultivated just as thoroughly as a model field. The testh are fitted to steel standards, which in turn are attached to the frame by a "break-pin" connection. The

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386

#### The Stock Boar

(30)

By G. B. Rothwell, Assistant Domin-ion Animal Husbandman.

UMMER FEEDING. - Supply S pasture of clover, alfalfa, or fine grass with water and shade. If no pasture is available, supply fresh green food liberally-clover, alfalfa grass, green peas and oats or weeds, as lamb's quarter, pig weed,

Feeding the Year Round.—If skim-milk, buttermilk or whey are avail-able, supply at rate of three to 10 pounds daily as needed. The meal ration may be made up of ground oats, ground barley, bran and shorts in any combination of two or more,

fed at the rate of two to five pounds a day, as needed. Use judgment in feeding the boar. If overfat, he will prove a poor or uncertain stock-getter, indifferent and sluggish at serv-ice. If he is too thin, he will trans-mit to his get, lack of vigor and vitality and poor condition generally. Exercise, -Importance cannot be overestimated. Supply a roomy,

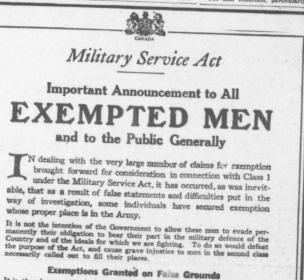
overestimated. shady pasture in summer, not a filthy, fly-infested pen or corner. In winter, arrange a paddock out-of-doors, close to the barnyard. Build a cheap, portable, single-boarded cabin about six feet by eight feet. Supply plenty of bedding. By feeding and caring for, as outlined, crippling and rheumatism, so common in boars, will be avoided.

The Brood Sow. Summer. Pasture, same as advised

FARM AND DAIRY

for boars. Winter.-Roughage same as two oars. Meal mixture of bran two parts, shorts, one part, except when nearing farrowing time, when the mixhearing tarrowing time, when the inter-ture should be of equal parts. If necessary around barley or oats might replace either. Avoid corn in more than one-quarter the ration. For the breeding sow it is debilitating and over-fattening. Feed meal at the rate

of two to four pounds as needed. During Gestation.—Fush, or bring the sow into good condition before breeding. Maintain this condition breeding. Maintain this condition after breeding. Avoid over-fatness with the ensuing troubles difficult farrowing, small, weak, or dead pigs. Too thin condition, particularly with



It is, therefore, proposed to scrutinize carefully all exemptions granted to date in order to separate those which have been granted on false or insufficient grounds from those that are well founded.

With this object in view the various Registrars under the Military Service Act have been instructed to issue a series of questionnaires to exempted men. These questionnaires must be filled up correctly and returned promptly under penalty of forfeiture of exemption for failure to do so.

## Exempted Men Who Have Changed Address

It is therefore important in their own interest that all exempted men who have changed their address since their exemption was granted and who have not already notified the Registrar of such change should notify him at once. Under the Regulations it is the duty of exempted men to keep the Registrar advised of any change of address, and failure to receive the questionnaire by reason of neglect of this duty must be treated as equivalent to failure to return the questionnaire after receipt.

### **Citizens Urged to Assist**

In many instances information has been furnished by members of the public which has led to the cancellation of exemptions obtained by false or misleading statements. Further co-operation of this character is invited. The Government regard it as the Duty of all loyal citizens, not only to the Country, but to the men at the front, to assist in this way in securing reinforcements as strictly confidential and will receive the fullest investigation.

CHARLES J. DOHERTY,

Minister of Justice.

Correspondence should be addressed to the Registrars under the Military Service Act. April 4, 1918

a young sow, may permanently in in any case will likely mean a nently injure thin pigs, a high percentage of runts. and small milk secretion. The pig sow must receive a cooling ration pig sow must receive a cooling fation tending towards a laxative nature. The ration above advised qualifies in this regard. Remember, first and last, that constipation at this time makes very certain, serious trouble makes very certain, serious trouble with the litter-small, unthritty, poor-doing pigs, due to constipation in both themselves and their mother. Such litters dwindle rapidly with no perceptible cause

Exercise.—Equally as important as ith the boar. With the exception of with the boar. period spent in the farrowing that that period spent in the larrowing pen, house the brood sow outdoors the year round in a portable cabin, eight feet by 10 feet, and as deeight feet by 10 feet, and as de-scribed, placing four or five sows in each cabin. Choose a dry site. Make the sow work to objain feed. This has an unfailing infuence on the visor, size and numbers of the com-ing litter, and lessens liability to summation and canalies. ing litter, and lessens rheumatism and crippling.

After Farrowing.-Avoid exciting the sow during or after farrowing. Always be present at this time, but Always be present at this time, but give only such attention as may be required; no more. The first feed should be a tepid slop of middlings. During the first ten days gradually During the first ten days gradually increase ration to max'mum. Par-ticularly avoid overfeeding, canning scours and thumps in little pins. Feed the sow for milk production "such rations as ground onts, mid-dlings (equal parts), or ground onts, hean shorts (cannal mist). dimes (equal parts), or fround oats, bran. shorts (equal marts), both com-binations with milk products. In summer allow green feed or pasture only after pirs are two weeks old. In winter, feed roots, clover hay, etc., In winter, feed roots, clover hay, etc., to keen the bodily functions healthy and blood cool. Empty a paliful of earth and wood ashes in a corner of the pen. When weaking cut down meal supply and remove young pirs for longer periods each day until the sow is dry. sow is dry.

#### The Farm Implement Shed.

F ARM machinery depreciates very rapidly. For instance, the value of the threshing outfit, the hay loader, the manure spreader, the corn binder, the grain binder, and the mov-ing machine depreciate at the rate of 0 or 12 or the second test of Ing machine depresate at the tate of 10 or 12 per cent, or more per year. This means that the average life of these implements is 10 years or under. Experience has shown that the life of farm implements may be prolonged to at least 15 or 20 years with proper care. Proper care includes careful handling, oiling and, last but not least,

protection from the weather. On the ordinary farm we are prone protection from the weather. On the ordinary farm we are prone to leave our plows, harrows, cultivat-ors, and many other implements just where we finished with them in the down-the results in two sources of home-the results in two nources of home-the results in two nources of home-the results in two nources of home-the results in the machinery should be carefully come machinery if the machine is back in the field. We would not for one minute advocatic ex-pensive machine should be building machinery into; perhaps a shed roof, reovered with paper, with the two ends winder back boarded in, and with athining in forms in about as simple as the machine shed can be made.

The location of the machine shed is worthy of consideration. One can is worthy of consideration. One can locate it very conveniently in the lane where it enters the farm yard; the face or front of the shed in line with the lane with the lane of the shed in line with the lane of the desired daph. If some-thing more all the shed with a shed in the lane of the lane of the shed in provement line rease with each added im-provement line shows in one end. This is a lature worth moting, and this is a lature worth moting, and will result in a great deal of satisfac-tion to the farmer when he is poing tion to the farmer when he is going over his machinery in the winter.

April 4.

MA

Tensorrio kets has been holding kaster dema be a suffiche suffiche market is more ple suffiche rain marke is more ple suffichel ong as farm on hand for The recent re being off.

Practically eted now is being ship being shipp day to sup tario farme Ontario farme better metho wheat than se and until the pers the profi moved, dealers of this commo where grain f mand. Quotas store, Fort W 2½c tax); No. No. 4 wheat, New crop, No Montreal.

N The only move situation is the at Ontario point of the increase mill feeds become not have any eff. the farmers very the tame of the very strong will vance of \$6 a t to the increased also were report to the increased sales were report Quotations: Tor Montreal freights \$35.40; shorts, \$40 market is quotin \$40.40; middlings, Hay

Toronio is quoi \$17 to \$18; m raw in car lots, notations for No

Wholemalers are prices for seed at Alsike, No. 1 fan. do, No. 2, per b do No. 3, per b Bad clover, No. 2, do No. 3, per bu Timothy, No. 1, per do No. 2, per cw do No. 3, per cw do No. 3, per cw

Potatoes

With increased on the is developing in rices are declining Ontario potatoes a and New Brunswic Mostreal is quoting tains as low as \$1. ex-track and in sy jobbing prices hav a bag. Bean prices remm

Bean prices rems mes being quote eign hand picked Eggs an

Wholesale produc ages are likely to re prices. While the si is increasing rapid which have prevaile of weeks is greatly mand. The dealers s be that producse that producers decline in ti decline in ti amential to z there are buy rio cases retu ber are who w laids, 45c 's to 45c an

FARM AND DAIRY

MARKET REVIEW AND FORECAST

Tomorrow april 1.—The week's mar-changes. Here more all of the second backgroup of the second second second be a sufficient rank of sec is not likely to be a sufficient rank of sec is not likely to be a sufficient rank of sec is not likely to be a sufficient rank of sec is not likely to be a sufficient rank of sec is not likely to be a sufficient rank of sec is not likely to be a sufficient rank of sec is not likely to be a sufficient rank of sec is not second second second second second rank of second rank of second sec

#### Wheat.

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#### Coarse Grains.

Cearse Grains. Otation dates are more plentifuil than the for a standing of the second second second second to a standing of the second se

#### MIII Feeds.

MIII Feeda. The only coveragent in the mill feed stuator is the increased cost had over at the increase in freight rates. Data at the increase in freight rates. Data the increase in freight rates. Data the sense of the market for moulie as the sense of the market for moulie as the sense of the sense over its in ad-vance of the store of the sense also were reported as the the data bar-ales were reported as the the data bar-ales were reported as the sense bartet by our the data bartes. Bartet by our the sense the sense of the sense of the sense also were reported as the sense bartet by our time. The data bartes the sense of the sense the sense of the sense the sense of the sense also were reported as the sense bartet by our time. The sense the sense of the sense t

Hay and Straw. Hay and Straw. Toronto is quoting hay on track, No. 1, \$11 to \$18; mixed, \$14 to \$16. with straw in car lots, \$5,50 to \$9. Montreal quotations for No. 2 hay in car lots, \$17. Seeds.

Wholesalers are paying the following prices for seed at country points: Alsike No. 1 fance which which have

do No. 1 mailey, bush.\$12.60	to	\$13.00	
do, No. 1 ordinary 11.75	to	12.26	
			- 1
			E
Plax, bushel 3.25	to	0.00	

#### Potatoes and Beans.

Potatices and Beans. With increased offerings a weaker feel. In a developing in the potato market and prices are decining. Toronto is quoting Ontario potatose at \$1.70 to \$1.80 a bag Mew Brunwick Delawares at \$1.90 Mew Brunwick Delawares at \$1.90 are the second bag of \$0 bas, are-track and in ayrough pair of \$0 bas, art-track and is or decing disc to 250 a bag.

Jobbing prices takes a bag. Bean prices remain steady. Canadian primes being quoted at 87.60 to 39, and foreign band picked, 86.75 to 87. Eggs and Poultry.

Eggs and Paultry. Wholesall, produce men report that egs are in produce men report that offices. While the manaf from all present to hore-asting rapidly the lower eggs who have prevailed in the last couple the that producers will begin the de-mand. The greatly increasing the de-mand the second second second second terther decline in the price of edge for a sign coulines to feed the genantity of the hear are wholesaling to the relati-while they are wholesaling to the relati-while they are wholesaling to the relati-set to the second second second second second terther they are wholesaling to the relati-while they are wholesaling to the relati-set to the and in cartoon, ble to the second second second second second second terther the second second second second second terther the second secon

sipts of poultry at all consuming

#### Dalry Produce.

Daity Produce. Butter prices are unchanged. At coun-try points the sumchanged. At coun-try points the sumchanged of the sum-try points of the sum of the sum of the term at the sum of the term of the sum of the su

#### Live Stock

Cattle closed the week at the levels of the previous week. The market was draggy early in the week, but improved on light recolgts. The Easter demand took up the choice offerings. Small meats

## SALE DATES CLAIMED

OXFORD COUNTY. April 10th.-T. G. Gregg, R.R.No. 5, Ingersoll, Ontario, Holsteins.

ONTARIO COUNTY. ONTARIO COUNTY. ...April 6th...-Dunrobin Farma, Beaverton, Ontario. Dispersion sale of Holsteins at Union Stock Yards, Toronto.

June 11th.-Complete dispersion sale of gure-bred Holsteins. A. A. Farewell, Oshawa, Ont.

April 2nd.—Mente District Ayr-ahirs Breeders' Club, consignment anle of pure-breed Ayrabires at Campbellford, Out.

VICTORIA COUNTY. April 4th.-Disparsion sale of pure-brod Jerseya, Rosebank Farm, Manilla, Ont Hy. Glendinning &

April 2rd.—Balleville Holstein Breeders' Club seleville Holstein Belleville F. R. Mallory, Secre-tary.

YORK COUNTY.

VORK COUNTY. May 15th.-York County Holstein Frieslan Breeders' Club sale, at Richmond Hill, Ost. R. W. B. Burnsby, Jefferson, Ost., Mgr.

## held firm. Small meats were steady and active. Hog receipts are light and prices

Quotations :---

Baby boot		11.75	
Baby beeves		13.50	
Butchers' steers and			
holfers, choice	11.50 to	13.00	
do good	11.00 to	11.40	
		10.60	
		9.75	
asucchers cows, choice	0 95 4-	10.60	
		9.50	
		8.75	
		7.50	
Butchers' bulls, choice	10.26 to	6.25	
	9.25 to	10.75	
	8.50 to	9.75	
	8.50 to 7.75 to	9.00	
		8.25	
	9.50 to	10.50	
	9.50 to	9.75	
Milkers and springers,	7.00 to	7.75	
do com. to medium	100.00 to	136,90	
Calves, choice	65.00 to	90,00	
do modium	16.50 to	17.00	
do medium		15.00	
Hanvy fat	8.00 to	10.00	
Heavy fat	10.00 to	12.00	
Lambs, choice	19.50 to	20.85	
Sheep, choice handy	13.00 to	14.50	
do heavy and fat bucks	11.50 to	12.50	
Hogs, fed and watered .	21.00 to	00.00	
		00.00	
		20,00	
		hoga:	
		tags;	
less 50c to \$1 on heavies.			

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## THE SOUTHERN COUNTIES AYR-

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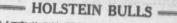
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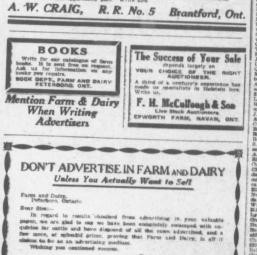
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Charles Destrict FAIRs (16 0.5 1) Fair yr, char o hull with even 100 in. cown in his paignes. Bianniai radvianal, safe af arrs. Sine, CANARY MERCEDES Pieze. Male MARTOS ITS, with a for of JENNY MONTROES OF SHABAY ATT. Destron and the same share and the same share and the same bar of JENNY BONTROES OF SHABAY ATT. Destron and the same share and the same share and the same many shares and the same share and the same share and the same shares and the same shares and the same shares and the same share of JENNY Wayne, with 15,600 has mile. 184,00 has better in 30 by A. 30 h. cow for a year yr, child like in the damage of the same and the same shares and the same shares and the same shares and by A. 30 h. cow for a year yr, child like the same shares and the same and the same shares and the same shares and the same shares and the same of the same shares and the same shares and the same shares and out the same shares and the same same shares and the same sh



Yours (ruhy. (Serd.) ROSas McDOUGALA, Elimeroft Stock Farm.

We have equally good results in store for mores of our other breeders of good dairy cattle. If you have something choice to effer, do not heritare to make use of the good services of Farm and Dairy is finding your buyers. You will be surprised at the results we can secure for you. Write us your advectigement or give us the facts and we will arrange a nest ad. for you



## The Allison Sale of Holsteins

One of the Best Sales of Registered Cattle Ever Held in Canada

One of the Best Sales of Register There is a super-transformer of the series within its provide the series of the series of the supertransformer super-transformer super-super-super-super-super-super-super-super-super-super-super-super-super-super-transformer super-super-super-super-super-transformer super-super-super-super-super-super-transformer super-super-super-super-transformer super-super-super-super-super-transformer super-super T HAT br

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ered Cattle Ever Held in Canad. The main state in the carson in the state in t

April 4, 1918.

#### SALE OF W. A. MEADOWS.

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#### C. SLAVIN'S SALE.

C SLAVIN'S DALL.

Bulla.-Count Echo Pontiac, 3 years, 2000, C. L. Fraser, Westen; Manor Seris Pontiac, I year, 3217, R. A. Jefferson, Westen.

seed of the Presert, Westeni Yakawa Safet Oratika, yawa Tait, R. A. Jeffersen, Westen.
New Ber, Diricht & Palari, Bock, J. Warmen, S. S. Safet, S. S. Safet, J. Safet, S. Safet, J. Safet, S. Safet,

THE HOSKINS

T HE auction as steins advert kins was hel stables, Cobourg, Owing to the sm catalogued the att ticularly large but

deninity large but opod. The bighest price by J. T. Nixon, C. Ba aliet of the of Henger Colborne; T. Nixon; Sunrise Nixon; Lady Quee Colborne; Fanny 1, Metcail, Bowr Hamming, 1814. C. Color, Fanny 1, Metcail, Bowr Hamming, 1814. C. Color, Statis, Bowr Hamming, 1814. C. Color, Statis, Bowr Hamming, 1814. C. Color, Statis, Bowr Metcaile; Jennie C. Lord & Son, Gard DeKol, \$119, Wm.

## LAIDLAW BR

AIDLAW SF A T the sale of p the held at Out liked some farly g the top-notch pri state for males. T total of \$6,185; ave gulo.5s, and males, were the prices pal Ourvilla Alice TC Belmont; Boutaje Belmont; Bourage Brown, Ancaster; O \$180, E. Plant, Bur Queen DeKol, \$185, Calamity jueen DaKol, \$185, Durvilla Calamity lien; Outvilla Bout H. Baxter & Son, Jon Queen, \$265, J. Jilla Sarah Colant Lyimer; Ourvilla, C. Brown; Ourvilla, C. Brown; Ourvilla, F. Wilson, Hagers rest Abbekerk, \$1 Phomas

Thomas. Ourvilla Susle I Goodwille, Wellan Taake, \$176, A. Jo tunia \$210, A. Hett Ourvilla Korndyke Leeson, Aylmer; Hé E Plant; Ourvilla Ym. Dil, Rodney; W. Sinden; Ourvilla T. G. Brown; Ourv \$156, W. Sinden; \$255, E. Plant; Ourvilla \$255, E. Pla



bull is a son days. He h

We are of bulls of servi the Canadiar CALAMITY 1 2ND, at 3 yea 1,053 lbs. bu WAYNE CA years 16,714 ter in 1 year ing a daught and a number ters of FAIR has a record milk, and ove years in succ T. G. GI

R.R.No.

\$145

\$700

Dag.

iar. 1150,

THE HOSKINS SALE AT COBOURG.

The Hostinian sale of Registered Hol-T steins advertised by Hertram Hos-kins was heid at the Albion Hotel pables, Cobsurg, Ont. on March Tib. consequed the attendance of animals oranequed the attendance of animals orange of the attendance of the orange orange of the attendance of the orange orange of the orange of the orange of the orange of the orange orange of the orange of the orange of the orange of the orange orange of the orange of the orange of the orange of the orange orange of the orange of the orange of the orange of the orange orange of the orange orange of the or

nicilariy large but the prices paid were evolution of the prices and wars sets for any Echo Pontias, the herd wirs, hought by J. T. Nixon, Cobourg. The following print and the state of the state of the state immercial Walker Seeis, 8400, W. H. 1997, J. T. Nixon; Sunrise Margiel, 8132, J. T. Nixon; Fayan Bay, Santa Santa, Santa (J. Miccalf, Bownanyulic, 2010), M. Haming, 4141, Carman Baker, Brigh-ter, Fulling Fontlate DeKol, 8100, N. Corte Scon, Garden HIII, William, John DeKo, 8100, Garden HII, William, Yohne, Deten & Son, Garden HII, William, Scolborne.

#### LAIDLAW BROTHERS' SALE.

**LICLAY OFFICIE SALE** A the set of purchase shares of the set of

AN OPEN LETTER. Paris, Ontario, March 21st, 1918.

Mr. C. G. McKillican, Live Stock Representative, Farm and Dairy, Peterboro', Ontario,

Dear Sir:-

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# **60 HEAD PURE BRED HOLSTEINS** And a Number of Young Calves at HIGHWOOD STOCK FARM, INGERSOLL, Ont. Wednesday, April 10, 1918 at 10.30 o'clock

This is without a doubt an exceptionally high class sale. Breeders on the lookout for a young herd sire, or some choice founda-tion stock, cannot afford to miss this sale. The first bull used in this herd was Homestead Dewdrop King, a son of Belle Dewdrop, she having a record of 574 lbs. of milk and 25.18 lbs. butter in 7 days, and 2,343.7 lbs. milk, 103.07 lbs. butter in 30 days. This bull is a son of Dutchland Colantha Sir Abbekerk; whose dam and sire's dam average 31.83 lbs. butter in 7 days, and 122.77 in 30

We are offering 8 choice young buils of serviceable age. Included in this sale are sisters of two of the Canadian R.O.P. champions, CALAMITY SNOW MECHTHILDE 2ND, at 3 years 23,274 lbs. milk and 1,053 lbs. butter, and DUCUERS 1,053 lbs. butter, and DUCHESS WAYNE CALAMITY 2nd, at 2 WAYNE CALAMITY 2nd, at 2 years 16,714 lbs. milk, 864 lbs. but-ter in 1 year We are also offerter in 1 year we are also ougre-ing a daughter, 3 granddaughters and a number of great grand-daugh-ters of FAIRMONT WAYNE, who has a record of over 20,000 lbs. milk, and over 800 lbs. butter, two

R.R. No. 5 Ingersoll, Ont.

T. G. GREGG,



NG ISABELLA WALKER

Thirty head in this herd are the get of KING ISABELLA WALKER (Imp.), whose dam has a record of over 22,000 lbs. of milk and 987 lbs butter in 1 year; also a grandson and granddaughter of Queen But-

ter Baroness, 33.17. Fully 30 per cent. of the entire herd carry blood of the Canadian R. O. P. champions.

R. C. P. champions, Conveyances will meet morning trains at ingersoll; also C. P. R. noon train from the south at Sal-ford. Write for catalogue, Lunch provided

> Auctioneers **MOORE & DEAN** WM. PULLIN



### **AYRSHIRE NEWS**

AYRSHIRE COWS AND HEIFERS THAT HAVE QUALIFIED IN R.O.P. FROM FEB. 7 TO MAR. 20.

#### Mature Class.

Mature Class. M II.KMADD OF OIKNEY, 1934; 14013 M II.KMADD OF OIKNEY, 1934; 14013 fat. Harmon McDrono, Orkney, Jean of Cottage Hill, 55167; 1936 Joa mith. 509 Bok. 46, 450 per cont. fat. Lea-ie Airaire, Berwick, Oat. Rachel of Cryster, 51295; 1930 Ibs. mille, 51 bb. fab, 348 per cent. fat. Lealle "brone, 32001; 1948 h.

Proxie, 33501; 9862 ibs. milk, 409 lbs fat, 4.14 ibs. butter. Leslie Alguire.

#### Four-year-old Class.

Fast-year-old Class. Heavity of Christelson, 41144; 10196 tha. milk, 568 thas fat, 4.47 per cent, fat, 32. C. Iazulit, Markhann. Tancitewild Empudence, 41740; 5655 ibs. Mile, 308 the context of the second fat, 32. Autoenfade Brownie Ard, 4542; 8134 the. milk 547 thas fat, 4.58 per cent, fat, 3. Autoenfade Brownie Ard, 4545; 7658 the. milk 555; C. Ballandyne, ber cent, fat, 3. C. C. Ballandyne, ber cent, fat, 3. Ballondyne, ber cent, fat, 3. Ballondyne, ber cent, fat, 3. C. C. Ballandyne, ber cent fat, 3. C. C. Ballandyne, ber cent fat, 3. C. C. Ballandyne, ber cent fat, 3. Ballondyne, ber fat, 3. Ballo

Three-year-old Class.

rerece gasar-old Class. Terraco Bask Phany, (6523; 2017) Mas. nik, 330 Has, fat, 630 per cent. fat. Chas. Nyda, Huntingdon, Que. Snowficke of Spring, Hill, 25519 Has. Mik, 311 Has, fat, 640 per cent. fat. 1: histings, Guesen Jid, 64179; 7704 Has. Mik, 116 Has, fat. 843 per cent. fat. rooddisse Bros., Moorwichd.

milk into BBs TRL and per cent. fat. Wooddaws Brancedo Class. Two-year-odd Class. Two-year-odd Class. The second seco Bradley, som 51487; 5800 lbs. milk, 243 lbs. som 51487; 5800 lbs. milk, 243 lbs. per cent. fat. J. Harley Purdy, som the, milk,

o, Que. of Gold Coin, 52499; 5526 lbs. milk. fat, 4.07 per cent. fat. John W. Tat. 1.07 per cent. fat. John W. Latta. W. F. STHIPHEN, Secretary.

HOWICK HUNTINGDON AYRSHIRE

It is around matching of the above Chub took place at Ormatown, Guo, on March Tist. In the absence hrough liness of the President, Mr. times Bryon at Brynkowik, Cuk, the second of the source of Beau-arnot. Chatekugany and Huntingdon. The ruperiot of the Scorettary-Presaurer personative of the Scorettary-Presaurer personative of the Scorettary-Presaurer thinks services of the Scorettary-Presaurer and the source of the Scorettary-Presaurer and the services of the Scorettary-tary and the Scorettary-Present and the services of the Scorettary-tary and the Scorettary-Scorettary and the and the services of the Scorettary-Scorettary (Arrhites in the spring of 1129 was the services of the Scorettary-Scorettary-tary and the heid a Presse Gupter Order Scorettary and the heid a Scorettary Scorettary (Scorettary) the services of the Scorettary-Scorettary (Scorettary) the services of the Scorettary-Scorettary (Scorettary) (Arrhites in the spring of 1129 was the services of the Scorettary-Scorettary (Scorettary) the services of the Scorettary-Scorettary (Scorettary) (Scoretary) (Scorettary) (Scoretary) (Scoretary

as decided to hold a FREE GIFF live stock early in June maxi, the is to be divided between the Red and Patrickic Rands. This sale cid under the auspices of the Club y former we desirous may donate mail to this sale, and the same acceptable.

an atomal to this wake, and the same we present and gave an adverse of the Cana-dian Arrahire Breeders' Association was present and gave an adverse on "The adverse of the same and the same and the same and the solid of the adverse of the same and the same adverse of the same and the same adverse of the same of adverse the same works of the value of adverse thin to the presence and especially to clubs. He ad-red the breederse to do more exhibiting considered it one of the best means of the best present at the same of the the transmitted of the presence and especially to clubs. He ad-red the breederse to do more exhibiting considered it one of the best means of the best presence on the same of the presence of the cover were indications of the advertise the there were the same of the presence of the cover were indications of the same to the same of the same of the presence of the cover were indications of the the same to the same of the same of the the same to the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the the same the same of the same of the same of the the same the same of the same the same of the the same the same of the same of the same of the same of the same the same the same of the same o

Process on the own, Macdonald College, N. E. Mollwan, Macdonald College, News spindid faik or "Cleaning up they are spindid faik or "Clean," and gave nuck values for clean," and save nuck values for methods for welfouton, and suggested methods for welfouton, to clean hards of this trouble two things were necessary, double and in holded and industant used in holded.

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FARLAND DALKY

FARM AND DAIRY

#### JEAN ARMOUR SRD IS DEAD.

N the death of Jean Armour 3rd, the Ayrahire Breed loses one of its great-est animals.

B. Des deuth of Jean Armeur and the origination. Methods and an armed and the grant of behavior, Avenue, N.Y. She was describ-phanoic, Avenue was the first. Avenue, and the she was she first. A strategies and the she was she was a strategies and the she world record and the she was she was a she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she world area and the she was and the she was a she the she was a she was and the she was a she was a she was a she was and the she world area and the she was and the she world area and the she was and the she was a she was a she was a she was a and the she world area and the she was and and the she world area and the she was a and the she was a she was a she was a she was a and the she world area and the she was a and the she world area and the she was a and the she was a she was a she was a she was a and the she was a and the she was a she was a she was a she was a and the she was a and the she world area and the she was a and the she world area and the she was a she s

AYRSHIRE ADVANCED REGISTRY.

ATBRINE ADVANCED REGISTRY. THE drop of the start of the

and the second se	A.VI	Average	
Class Li 25 Mature 6 Senior 4 4 6 Junior 4 10 Senior 3 5 Junior 3 13 Senior 2 11 Junior 2 1	bs. milk 11,488 10,788 10,188 9,020 9,352 8,198 7,964	Lbs. fat 452,25 439,58 447,75 357,01 383,88 340,17 822,30	
90 total Records Average	9,959	401.61	

Average ...... 9,959 Average per cent. of fat, 4.03, J. G. WATSON Extension

#### TINUED ANNOUNCES LIVE FREIGHT STOCK COMMISSIONER.

ATOCK COMMISSIONER. The second secon

**R. O. P. CHAMPIONS** According to the R. O. P. reports a Jersey new produced more b fat dering last year than any other cow of any other breed. We have for main Twenty Cowe, freah or springing, also Young Buile, all ages. I of these are closely related to the champion butter cow methioned ab B. H. BULL & SON, BRAMPTON, ONT.

#### JERSEY SIRE

Lah now ready to discuss of a young builtrom Sadie Miss Polo, record 54 has fat at years old support of a young builtrom Sadie Miss Polo, record 54 has fat at years old support to the fat in praticipation of the fat in the fat interval in the fat interval in the fat interval interva HAGERSVILLE, ONTARIO

#### AVRSHIRE BULLS FIT FOR SERVICE.

No. 1.—16 months: Dam, White Legged Christy, Bd prize at Ottawa Winter fair dairy test, 1917. Both Builts: Dam, R.O.P. 5,600 fbs, milk testing 4,64%. Both Builts: Dam, R.O.P. 5,600 fbs, milk testing 4,64%. Both Builts: Dam, Str. THOMAS, ONT.

AYRSHIRES

If you want Ayrshires of first class quality watch this space in future issues. PALMER BROTHERS NORWICH, ONTARIO

#### CHOICE YORKSHIRE HOGS AT RIGHT PRICES

Boars and sows, all ares, from beat prize-wrining straina—A few good bred nows, also younger stock. S. C. White Lagborn eggs for hatching—Bar-row's 28-ceg arcmin. S. S. Brown Leghtons, Barred Rocks, R. I. Reds, 32 per 15: 310 per 100. Faum and White L. R. Duck eggs, 43 per 11. Chinese goose eggs. 50c aach. T. A. KING

. . . MILTON, ONTARIO.

#### PEACH BLOW AVRSHIRES



For STOCK

and

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**CONSERVE MILK!** Feed Calves Our Substitute Calf Meal Cream

Get in step with the times and

Cet in step with the times and wavel save your skim with and whole milk and turn it into cheese arstima-they will develop equally as fast as on milk, and the cetter be considerably less. You also save your milk for other needed purposes. Give Caldwell's Cat! Meal a trial at once. After you note the saving-nell your neighbors about Caldwell's, the call meal that is "doing its bit" toward saving needed food. Directions for feeding come with every sack. sack.

> Feedmen all over Canada handle Caldwell products or we will supply you direct.

The Caldwell Feed & Cereal Company, Limited DUNDAS, ONT.

Makers also of-Molasses Horse Feed, Dairy Meal, Hog Feeds and Poultry Feeds of all kinds

When Writing Mention Farm and Dairy

391

(35)



## HILL THE LEAD FARM AND DAIRY

Stolen from Farmers in 1917- \$100,000,000

The enemy is upon us again---the invasion of fungi and insects commences-These pests last year destroyed crops worth \$100,000,000. Can we save this huge sum in 1918?



392

(36)

We can save-most of it. Every year the knowledge of how to control insect and fungus pests is being rapidly increased. More advance has been made in the last ten years, in this line of work, than in the previous hundred There are to-day thoroughly tested and efficient remedies for most of our important

pests. The Ontario Department of Agriculture now desires to bring these to the attention of every farmer in the province.

#### Barrage Against Fungus Invaders

Oat Smut, Bunt or Stinking Smut of Wheat and Covered Smut of Barley destroy these crops and reduce profits. The formalin treatment is not expensive or difficult-and it will control these diseases.

Apple Scab still collects its annual toll of hundreds of thou-sands of dollars. Intelligent and careful spraying with proper pruning will almost always prevent it, no matter how wet the

Potato Blight and Rot destroys thousands of bushels of potatoes every year-but the Bor-deau mixture properly applied will

check its ravages.

Peach Leaf Curl, Potato Scab, Black Knob of Plume and Cherries, Brown Rot of Plums and Cherries, Celery Blight and Tomato Blightall can be prevented from exa their yearly tribute by efficient methods of control.

#### A Vigorous Offensive **Against Insects**

'The San Jose Scale is smaller than the head of a pin-but it has ruined hundreds of thousands of fruit trees in Ontario. The Codling Moth

0001175 every apple and pear orchard in the

rovince. The Plum Curculio often de stroys nearly every plum in many orchards.

Maggots in Cherrice may destroy 50 per cent or more of the crop

Yet all these Pests can be con trolled.

It is not difficult nor costly to destroy Grasshoppers, Cut-

worms, Army Worms, or Cabbage Worms. The Hessian Fly, Wheat Midge, White Grub and Wireworm, weaken our war-time strength—but much may be done, too, to beet their supress check their ravages

Horn and Stable Flies and Cattle, Hog and Poultry Lice yield to proper treatment

Ants, Cockroaches, Bed Bugs, Buffalo Carpet Beetles, Clothes Motha, House Files—all the house-hold insect-pests, in short—may be parti-ally or completely controlled.

#### **A Few Timely Suggestions**

Treatment for Smut.-Mix one pint of formalin with thirty gallons of water. Place grain on clean floor and sprinkle with forgrain on clean not and spinistic with tor-main solution. Stir grain and repeat until every kernel is moistened by solution. Cover pile with sacking and leave for couple of hours. Then spread grain out thinly to dry.

Late Blight and Rot of Potatoes .-- Commence spraying with Bordeau mixture when plants are six inches high. Spray thoroughly so every leaf is drenched. Add arsenate of lead or Paris green when necessary for beetles. Spray regular,y throughout season-from three to seven applications are necessary, according to wetness of weather.

Grasshoppers, no matter how abundant, can readily be controlled. Mix 20 lbs. bran with 1 lb. Paris green. Squeeze juice of three lemons into 2 gallons of water, chop pulp and rinds of lemons and add to water; then add a gallon of molasses to water and stir well. Mix poisoned bran and molasses mixture until every part is moist and will run through fingers like sawdust. Scatter this mixture between 5 and 7 o'clock in the morning thinly over infected field, so that quantity given will be sufficient for 4 or 5 acres.

Maggots in Cherries .- This curse to the cherry grower can be absolutely controlled at a cost of about 5 cents per tree. Spray with 2 lbs. arsenate of lead paste in 40 gallons water; first, when the early varieties begin to turn red; second, two weeks later.

Blister Mite can be annihilated by a single spraying of trees with lime-sulphur wash, 1 gallon

to 9 gallons water. These are a few methods of control. There are as efficacious remedies for most of pests. Methods sometimes need to vary according to local conditions, but the result is the same. To assist the farmer in this regard the

#### **Ontario Department of** Agriculture

has the following up-to-date bulletins ready for distribution: Nos 219, 227, 229, 240, 250, 251, 257, and 258. These treat the subject from every angle, and in them the farmer may find with very little trouble just the information regarding this question he requires. A Spray Calendar will also be sent upon re-

quest, which gives very briefly complete directions for treating all ordinary fungi and insects. All bulletins are free.

#### **Personal Attention**

Will also be given to any Ontario farmer or fruit-grower requesting information. All are invited to write regarding their peculiar problems of this nature. Experts of the Department will give requests prompt attention. Each case will be considered and as exact information as possible will be forwarded.

In writing give complete details of your particular case and address all correspondence to the Office of the Commissioner, Ontario Department of Agriculture, Parliament Buildings,



Late Blight of Potate



Cut Worn

San Jose Scale



April 4, 1918.

Loose Smut-Barley







Lewers Vitality of Tree



The Canada Food Board, Ottawa, has pur chased 1,000 Fordson tractors for distribution among the farmers of Canada at cost price. They have asked the Provincial Department of Agriculture to co-operate with them in the distribution in the respective Provinces. In accordance with this arrangement this Department is now prepared to accept or ders for these tractors for delivery in this Province. The price is \$750, f.o.b. De-troit, Mich., duty free. Delleveries begin under the contract on the 1st of April, and will continue thereafter as rapidly as possible in the order in which orders are received. Cheque must be forwarded with

order, and should be made payable to the

Ontario Department of Agriculture.