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 FLOUR
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"More Bread and Better Bread and Bétter Pastry"
Western Canada Flour Mills Co.; Limited head office-toronto, ontario

## A Spring Message To The Canadian Public

THE Signing of the Armistice relieved some of the most pressing demands for shoes. But it did not, and it could not, increase the supply of leather. It released thousands of men from military duty, but only gradually will they find their way back into their old occupations. So until an actual shortage of leather is turned into a surplus, and the supply of labor becomes somewhere near normal, we cannot expect any marked change in conditions, and the price level must continue high.
Leather is not a product of manufacture, but of natural growth. It takee time to produce a skin, and no process of "speeding up" will hasten it. The demands of the war, and the destruction of war, so depleted the world'e stock of leather that, as we told you last fall, it was a big problem to produce enough good quality shoes to go around. Now we must simply wait for a new supply of leather to grow.
Labor is another problem which will take time to solve. Many men, fresh from life spent largely out-of-doors, will not go back to factory work again. Many others bear honorable wounds which unfit them for it. Here again, we expect no immediate return to normal conditions.
So in this, our Spring message to the Canadian public, we say :-
"Prudence in buying is still necessary. You can help to bring about more normal conditions if you will continue to exercise it. Buy for service and see that you get REAL VALUE for your money.
"And now especially you should see that the manufacturer's trade-mark is stamped upon the shoe you buy. Unbranded ahoes may be reduced in quality to make the price seem low-with the end of the war as a plausible excuse. But no manufacturer will jeopardize his reputation by stamping his trade-mark upon a product which he is ashamed to acknowledge. Remember this, and look for the trade-mark. It is the best assurance you can have of real value?

## Get This Booklet

We have prepared a booklet-"How to Buy Shoes "-which we think will help you, It contains advice which you will find of value, whether you buy A. H. M. Shoes or not. We shall be glad to send you a copy with our compliments if you will address our head office at Montreal.

## AMES HOLDEN McCREADY <br> "Shoemakers to the Nation"

BT. JOHN MONTREAL TORONTO WINNIPG EDMONTON VANCOUYE

When you buy Shoes look for-

-this Trade-mark on every sole


The Simplest, most Accessible, most Pont Suitable for hauling 3 Plows, Threahbug, stho
Filling and General Farm Work.

 Do your own threhting. Keep yours fare datain and ave expense.
Write for free catalogue, prices and ing her
mation wanted. THE ROBT. BELL ENGINE THRESHER COMPANY, LIMITED Also Steam Tractora, Ond large stent

## GREEN MOUNTAIN <br> Seed Potatoes

 No. 1 STOCKWor firot prize in field crop competitionfor
the past two years in this, the beit potato-
 atmounts 32.25 .
Marguis Wheat,-Clean and hervy. Pric
M ten-bus. lote. $82.40 ;$ in less amolynts 2 2sis
 Satisfaction guaranteed.

Bage, cotton, $65 c$, and pota
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JAMES MILLOY, Erin, R. R. No.
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## FIRST PRIZE

O.A.C. No. 72 Oats, in fleld crop competition. Also winner of t competition. firsta at Ottew. Whater Putish
Prite wining $0 . \mathrm{A} . \mathrm{C}$. No. 21 Barley at Guthe Find Octawa. Both grown from rey at Gudered Mder rules of C.S.G.A. Also a amall amount $\alpha$
Marcuis Wheat common White Pea Bean
 OSTCAEst KLOPP, SEED GROWER Zurich, Huron Co., Ont.

Corn That Will Grow Canadian-grown seed Corn. J. O. Duke

Ruthren, Ont
S E E D S A ouaritily of No. 2 Alsike Cia
In Haldinand County An atra
ouoted to fintending purchasers. quoted to littending purchasers. . R. Reverilite, ont


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save yourcals at work or it todo this Failand Wime save youreal a lot of worry and enjog that "feeling of wecurity" which is such a deinite part of the staunch, reliable Gilson Engine.
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GILSON MFG. CO., Limited, 259 York Sto, Guelph, Ontario


## Don't forget the cost of labor

If you figure up your fence and leave out the labor cost you will be away out.

You have to pay your help.
Your own time is worth money.
Then, when we give you a fence that you can put up in shorter time and with less help, we save you money. In other words, we give you a lower price on your fence.

How can we save you labor?
The finest fence to-day is the all-steel fence. It lasts the longest. Stands up the best Looks best. Takes less space. Is fireproof.
The strongest type of all-steel fence is Standard Fence built with Standard Tubes. Standard Tubes are strong because they are not drilled full of holes. 'They have enough spring to give under strain. They do not snap off, do not pull out in the hollows.
Yet Stảndard Tubes can be set with about onethird of the cost of 'eedar posts. A man and a boy will set as many standard tubes in a day as three men and a boy can set of cedar posts.

Is that an item, or is it not?

a good job. But here is one.


## rn That Will Grow

 unadian-grown seed Corn. wir money back if not satified.Duke : Ruthven, Ont.

SEEDS
 intending purchasers. Hageroville, ont

## s Engine Will

 Cost You Nothingeeed an engine-get a Gillon thew, easy-payment plan, an
pay for itself. You have th for it to do this Fall and Winalp is scarce and high-priced-
eling of security seling of secur.


The boy and you can set as many tubes in a day as three men and a boy can set cedar posts.

The Standard Fence built with Standard Tubes is better than any cedar post fence ever made.

## Remember, This is Standard Fence

It is no new untried fence. You must have heard about Standard Fence. And you never heard anything against it.

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When you make only one grade of fence and sell a lot of it you naturally get the cost down. Now Standard Fence is sold at as low a figure as many a fence that is not as good.

## It is Guaranteed

Back goes your money if you find we don't deliver what we promise. Standard Fence is full No. 9 gauge, no skimping, no monkey business. It is well-made and well-galvanized. We guarantee it.

## If YOU Want Fence

You want good fence. You likely want it in a hurry. You can depend on Standard Fence. Our reputation protects you. And you can depend on having your order shipped the very day we re, ceive its
Let us send you full information and prices on Siandard Fence and Standard Tubes. Write to-day.

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Write for descriptive circular and our Special Spring Offer The engine on this outfit can be detached in a few minutes when it is available for a score of ases around the farm－driving the Cream Separator，Churn，Washing Machine，Sawing， Pumping，etc．


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Polarine Polarine．Polarine kills the friction that grinds away engine life．When the engine a low burning point hreaks down in with －separates，gums，ceases to lubricate properly．Friction then gets busy，wea has no acid or foreign matter to impair engine efficiency． Two grades－Polarine and Pola Heavy，in barrels and half barrels，and Polarine one and four－gallon sealed cans． where for sale by good dealers every Ask the Imperial Oil Man to advise cgarding the lubrication of your car，truck Write for Polarine book on Automobile surfaces with contint films over friction

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This is the original cantilever－ principle type，protected by
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holes to bore．Weight per set，
式首䯩 $\$ 10$ ${ }_{\mathrm{T}}^{\mathrm{T} \text { win }}$ \＄12

These will save your springs） lengease your comfort in tide and earn their cost in a season－
Over 200,000 in use to－day Remit by Money Order o Postal Note．Use the for 30 day
then if not satisfied mith your pur
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200,000 in use to-day. by Money Order or
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March 6, 1919


What does a breakdown cost?
Threshing is a short-season Altogether, breakdowns are very exbusiness. Every day counts. pensive for a thresherman. That's If you miss a day or two, or at the start, and that's why we build even part of a day during the our machines with such great overthreshing season, part of your pit up adain. terial. That s why we are so parchance to make it up again. tular about the workmanship that
But that's only one loss. You For two generations we have made have a gang of men on high a specialty of Threshing Machinery. wages. They are idle if you have a breakdorm. ducing high-grade machinery. It is to your interest to see the White Threshind Machines and White Tractors be
vestment.
Then there's the cost of the repairs.
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Carry yt with you-a Reliable Flaahilight. Use it indoris and outYou can dircet the brillent ray of the Reliable Searchlilht with bulto
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## Beachville White Lime

If your soil is not as fully productive as it should be it may be over-acid, and an application of BEACH: VILLE WHITE LIME will produce wonderfully beneficial Iresults in your crops.
Our Lime-stone is the highest grade in Canada Write for free folder containing information you should have.

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## SEEDS

Oun Gur County took. First Prize at Guelph Winter Fair this season on Pect
These prices good till nert this paper, as long as our stocks last. Red-No. 1 ..
$\qquad$
$\qquad$
Alsike-No. 2 (No........... Timothy-No. 2
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(No. $\qquad$ 18.50 Timothy-No. ${ }^{(N .} 1$ Purity) … 6.25
 Bags are 60c. each.
Seed Peas-Golden Vine.......................................... 4.
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These prices are per bushel, freight pald on
purchases of three bushels or over purchases of three bushels or orer. CCin himite
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on arrival, ship back at our expense. Wecy
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R.R. 5 W. D. LIND Hagersville, Ont Reg. O.A.C. No. 72 Oats - Winning sweep ton's Winter Fair. White pure and plump, in
$99 \%$ germination; 400 bus.i Government ip spected and sealed. . Second germination at \$1.45
bus. while they last. Koith R. Hillier, R.R. No. 1, Camlachio, Ont.
 Yellow Dent. A card will bring full particition. GEO. B. LANGFORD, Kent Bridge, Eent Co

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n application of BEACH. n application of BEACH. ILLE WHITE LIME
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Our Lime-stone is the ighest grade in Canada Vrite for free folder conining information you
fille White Lime Coo, Liniter Beachville, Ontario

## EEDS

 County took. First Prize Winter Fair this seasonoAlsike and-Alfalfa. Alsike and-Alfalfa.
prices good till next


RAL NURSERIES


A. G. HULL \& SoNs
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## D CORN

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D. LINDSAY Haperstlte ont No. 72 Oats
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Camlachte Oat
 Itile

# The Farmer's Advocate and ceasyme Home Magazine strameme SUCCEED 

## EDITORIAL

It is sai supply her

During the mild days of March is a favorable time wash, oil and repair the harness.

If short of pasture land sow a few acres to oatc and lovér to be pastured early in July.

One hundred hens to every farm is now the slogan and an export volume of $250,000,000$ eggs is the objective Biddy will have to speed up production this spring

As a rule the sooner the grain is sown once the soil is dry enough to be worked the better the crop. Seed ing may

The Ontario Housing Committee could well prepare plans and specifications of cottages for the hired man on the farm. This would be doing considerable to solve the housing problem

This has been a good winter for cutting wood. Is next winter's supply cut, split and piled beside the wood need not worry about coal shortage

Fruit growers should get back to the old-time swing Some of the local associations should be revived and new ones organized. We still have the orchards and vineyards but the industry has been drifting

When you consider that the seed grain is ready to sow, run it through the fanning mill once more. There may be some small kernels there that will make as good ced as larger kernels but are not as suitable for sowing.

After almost half a century in public life Sir Wilfrid Laurier passed away without a stain on his character and without wealth. The example set by the late Chieftain should be emulated by the rising generation of politicians.

Because the price of clover seed is higher than usual should not cause less seed to be sown. Canadian farms would be better for having a good deal more
dover sown each year. Clover is one of our best roughages for stock, besides being a soil renovator.

The Canadian Press dispatches the information that Daylight Saving will be re-enacted in Canada if it is continued in United States. Why our Government should follow the example of another country rather than meet the wishes of its own is beyond comprehension

Do you remember that a number of the harsow missing from the cultivator when you went to bitch on to them at seeding time last year? Valuable time mars repaịs. Have repairs

Those thinking of sowing sweet clover this spring should bear in mind that it is most valuable as a fertisuccessfully will frop. Anyone who can grow alfalfa all-round crop, but there are so many districts and so many farms where alfalfa will not grow that farmers are looking for something else. For the two purposes

LONDON, ONTARIO, MARCH 6, 1919

## Work for Agricultural Organizations.

It is well that we now have some well-established agricultural organizations to present the farmer's case and crystalize into brief form the demands of the rural population. Furthermore, while Parliament and Legislatures are in session there is need of some one to present the arguments of the rank and file and place them before Dominion and Provincial Governments in such a way as to impress upon legislators the fact that the majority are making a request. The Ministers of Agriculture in the various Governments must have the support of the people engaged in the industry they represent; otherwise it is like an advance of infant without artillery preparation and support. The Federal Minister of Agriculture has said that the oleomargarine egulation will not be definitely settled until it is discussed in the House of Commons: This gives the National Dairy Council an opportunity to prove its worth by collecting data and presenting the case for the dairymen. If the Daylight Saving measure is again introduced all provincial and dominion agricultural organizations should combine at once to see that it is given a long hoist. These are only two of many questions which are likely to arise, and representative bodies should study proposed legislation and be prepared to oppose any objectionable features.
The proposed increase in express rates is still pending, and there is need of dairymen .and fruit growers being very active in behalf of their respective industries. This matter comes under the jurisdiction of the Board of Railway Commissioners, and while representations have been made to that body there is need of action till the enquiry is finally and definitely ctosed.

There is another matter of more or less provincial concern, namely, the bean market. It has been reported that credits have been arranged whereby Roumania is o obtain $\$ 25,000,000$ worth of Canadian goods, and probably two-fifths of this output will be agricultural produce. Beans are mentioned amongst the list of commodities wanted by Roumania and if such be the case farmer's clubs and other local organizations in bean-growing districts should make a survey at once o the quantity of beans in their neighborhoods and be ready

Farmers all along the line must needs be awake and ready to cope with conditions as they arise Legis lation and markets have too long been left for other to play with and manipulate as they please. Farmer should throw their hats into the ring, link up with some good strong organization and fight a clean open battle for their rights Agricultural organizations have a big program ahead but they can do little without the support of those for whom they are fighting Sign up!

## We Are Drifting

## We have plenty of mines in this country but we are

 not a nation of miners, and our aim should be to get way from it. We have been producing grain and have been calied the "Bread Basket of the World," but that title should, in time, be changed to give us prominence as a nation of live stock producers. There is now a better market for live-stock products than there is for wheat, and this is our opportunity to branch out and establish ourselves in those markets where our future lies. Soon after the Armistice was signed there was evidence of some enthusiasm in official quarters but that is apparently subsiding. Spring will soon be here and farmers will be busy putting in their crops, and the live stock will be on pasture. It will be a poor time then to stir the country with an appeal for greaterlive-stock production and an improvement in our
stocks. Some program should be mapped out and presented to the people. The Government alone can effect nothing. The producers themselves are not in a position to devise ways and means of putting Canada on the map as headquarters for choice bacon and a source of good beef. There must be co-operation and a Canadian National Live Stock Council was never so urgently needed as right at the presentitimes Producers could act through it to reach the Govermment, and the Government could act through it to reach producers. We are drifting in regard to this matter of expansion.

## Sow Plenty of Clover Seed.

Red clover seed has reached an unprecedented price this spring, and many farmers are Inclined to cut down somewhat on the acreage they seed down and on the amount of seed they sow per acre Such a practice is not in the best interests of agriculture, The clover crop is one of the most important grown on the average farm, and in most important grown on catch a liberal amount of seed should a satissactory catch a liberal amount of seed should be sown. It is unwise to cut the-amount of seed per acre too low, as
we believe that failure to get a satisfactory catch is we believe that failure to get a satisfactory catch is frequently due to too light a seeding, and also to burying the seed too deeply. In a wet season the lighter seeding might give a good stand, but we do not know what the 1919 summer will be like. Consequently we should be prepared for all weather contingencies. Where clover is sown alone we believe that not-less than eight or ten pounds per acre should be used, and twelve pounds would be preferable. Where four or five pounds of timothy and a couple of pounds of alsike are used per acre, the red clover could possibly be reduced to six pounds. An extra two or three pounds of red clover seed per acre may be made up for many times over by the difference in the crop the following year.

When purchasing clover or grass seed it is advisable to secure the best, and that which is free from weed seeds. Some of our most noxious weeds frequently grow in the clover field, and the seeds which are similar in size to that of clover are very difficult ito reenguve. Weeds accumulate on most farms quickly enough with out sowing them in the grassees and clover. We wish to emphasize that if good catches are to be obtained plenty of seed must be sown.

## Cet Ready!

February is past, and in March the land, in more southerly districts, frequently begins to show signs of readiness for the seeding. The winter has been shortened by the exceptionally mild weather, and ere long it will be necessary to pull out the cultivators and drills. In the meantime there may be blizzards and the mercury may creep down into the bottom of the thermometer for a spell; nevertheless spring will come in its natural and appointed time-Be ready. Being ready for seedifg is almost equivalent to an extra man and a team of horses when the work is on. Have the grain cleanêd and the grass seed bought. Go over the implements and make an inventory of the new parts needed and those requiring repairs. Follow this step to its logical conclusion and put the machinery in readiness for all springtime operations. Obtain a supply of seed corn with a good germination guarantee, and test it again to be sure of its vitality. Where possible and advisable haul out the manure and put it in piles or spread it on the fields. Make all plans regarding the kind of crops to be grown, and the acreage for each. The season may interfere with the program and necessitate alterations and adjustments, but unexpected circumstances never embarrass the individual who has something mapped out nearly so much as the one who was not

The Farmer's Advocate and Home Magazine. the leading acriciutivan journal in the

## THE WILLAM WM bed wert bile

 Agents for "The Foin will. Manger.THE FARMERS ADVOCATE AND HOME MAGAZINE







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The Constitution of the League of Nations Summarized

## covenant dent dent et Pa

dent wilson, before the members of the Peace Co Press It is a pretty lengthy document and the majority,
of people will not take the trouble to read it through, although it is likely to be of importance e to every man,
woman and child that will be living on this the years that are to come. As. Ave on the said, it is
the
lengthy and judging by the style and the language lengthy, and judging by the style and the language
used, it was written out by a lawyer. Parts of it may used, appear very clear when read the first time
not and
 of those who haven't the time or inclination to wade
through the thing in fits original form. It starts out as
follows To get the nations of the world to co-operate; to
guarantee peace between these nations; to control the conduct of Governments by international law, and in-
sitting on scrupulous respect being shown all treaties madticle 1. The High Contracting Parties (or Noted will act through the meeting of a bo by or of elevates. Also
through the more frequent meeting of an Executive through the more frequent meeting of an Executive
Council. The office of Perinanent International Secretry will be established.
Art. 2. Meetings of the body of Delegates will be held at the seat of the League as occasion requires, for
attending to matters with which the League is conone vote, but may have three representatives at the meeting. 3 . The Executive Council will be composed of
representatives from Great Britain, the United States of America, France, Italy and Japan, and aldo for mo
of our on
four other states which are members of the League. Meetings will be held at least once a year.
Art.4. All maters discussed at these meetings will be decided by a majority vote of the representatives.
The first meeting to be summoned by the President
of the U. S. A. Art. 5. The office of the Permanent International
The secy will be established at the seat of the League.
The secretary -General will act in his
 Art. 6 . Representatives and officials, when engaged
on the League's business, will enjoy all dipgatiatic


all its international obligations and to become subject
the League regarding its naval and military forces.
to Art. 8 . The nations of the League, , trough their
Delegates, will Art. . . The nations of the League, through their
Delegates, will take steps to reduce national area Tents to as low a point as national safety will permit. The Executive Council will decide what military equip-
mont and armament is reasonable in the case of each mont and armament is reasonable in the case of each
nation interested. The Executive Council will also advise in regard to the regulating of the manufacture of ammunition and war-implements. It is agreed that here will be free interchange of all information in regard to military and naval programs.
the League if the provisions of the foregoing article are being carried out, and to advise on military and naval questions in general.
tact all states, members of the League, against
invasion by any outside Power. In this case the
Executive Council will advise as to what steps will be taken.
Art.
of the' League nations or war, whether affecting any matter of concern to the League, which will take steps o maintain the peace of nations. It is also considered he friendly right of any of the League nations to warn is likely to disturb international peace
Art. 12. If any serious dispute arises between the resorted to until three months after the questions before the Executive Council. And in any case they shall not declare war on any nation that submits to the

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& \text { Art. } 13 \text { It is agreed } \\
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that it is likely can only be settled by arbitration, arbitration and that all concerned shall submitted to decision given. In case of refusal to so abide the will Art. 14. A permanent court of International Justice will be established which will try all cases that are
suitable formula
suitable for submission to it.
en states' members the League which is not submitted to arbitration can that the League will not go to war with any party that
complies with the recommendations of the Council Art. 16. In case of any of the contracting parties
disregarding their agreement, as under Article 12 it will be considered to have committed an act of war against the rest of the members of the League. This will
mean the breaking off of all trade relations and other intercourse. The Executive Council will then reconmend what military and naval forces each member of
the League will contribute towards the suppression of the rebel nation. At the same time. mutual financial
support will be in this case, a feature of the League program.
Art. 17 . When a state member of the League has a invited to join the League, and when this is shall be to the dispute is to be arbitrated as above. When
not consented to the measures stated in Article 16 are to be taken. When both parties to the dispute refuse to refer the matter to the League the Executive Council
will take such action as will prevent hostitios about peace. It is agreed that the League have super vision of the trade in arms and ammunition in the
countries where this control is necessary in the common
interest. Art. 19. In regard to those colonies and terri-
tories that are, as a consequence of the war, no longer under the control of the nations that had sovereignty
over them, it it held that the well-being and develop-
ment of the inhabitants ment of the inhabitants should be considered a sacred trust of civilization, and securities for the carrying out
of this trust should be embodied in the constitution of the League. The best method of giving effect to
this idea is in giving the education of these peoples into
the hands of the advanced the hands of the advanced nations.
Art. 20. It is one of the objects of the secure fair and humane conditions of labor for men
women and children, both in their own in the countries with which they have commercial Art. 21. It is agreed that provision will be made,
through the League, for the freedom of movement and the equitable treatment of the commerce of all states,
members of the League, this especially so in regard to regions. 22 . It is agreed that all International Bureaus
Are Traced under the control of the League Art. 23. It is decided that in future all international
agreements or treaties shall be registered with the
Secretary-General before they shat Secretary-General before they shall be considered
binding. gates to advise the reconstruction of treaties which have
become inapplicable, and to give notice of international
conditions that are likely to endanger world Art. 25. The contracting parties to the League doing away with all obligations that are not consistent
with the terms of said Covenant, and if they have be-
come subject to such obligations they shall at effective when agreed to by the States whose will be sentatives compose the Executive Council, and by three-
fourths of the states whose representatives compose
body of delegates.

## Nature's Diary

Those who are interested in birds take a delight in welcoming the various species as they arrive from the we this week present a table giving the observations and average dates of arrival of the earliest, latest This table is compiled from data accumulate migrants. Members of the Wellington Field Naturulated by the
Guelph, Ont, during eight Guelph, Ont., during eight consecutive years, The the period between the earliest and latest dates while cover the time of the arrival of a given species will tically wherever that species occurs in eastern CanadaThe table brings out the fact that there is a great varia. ton in the dates of arrival in different years, depending on the character of the season, and this difference is he later ones.

Dates of Arrival of Birds at Guelph, Ont.
 wintering
American Goldfinch, someAmerican Goldfinch, someAmerican Robin... Bluebird.
Purple Pi Purple Finch
wintering.
Slated $\begin{array}{llll}\text { Feb. } 19 & \text { Mar. } 10 & \text { Feb. } 28 \\ \text { Feb. 15 } & \text { Mar. } 29 & \text { Mar. } \\ \text { Mar. } 9 & \text { Mar. } 29 & \text { Mar. } 10\end{array}$

Slate-colored Junco, some
times wintering............ Song Sparrow. Song Spa
Killdeer
Bronzed Bronzed Grackle Red-winged Blackbird White-rumped Shrike Red-shouldered Hawk Phoebe ${ }^{\text {Marsh }}$
Cedar Waxwing
great Blued Sapsucker
Chipping Sparrow Flicinker
Cowbird Cowbird
Co wa American Sparrow
Amer Winter Wren Towhee
Ruby-crowned Kinglet.
Hermit Thrush Sharp-shinned Ha
Cooper's Hawk Swamp Sparrow Tree Swallow...
White-throated
Wilson's Snipe Fox Sparrow.
Barn Swallow Barn Swallow........
Spotted Sandpiper
American Woodcock Chimney Swift
Black-thd Green Warbler
Black Black and White
Myrtle Warbler

## Wilson's Thrush

 Kingbird.House Wren House Wren
Yellow Warbler
Baltimore Oriole Water-thrush
Brown Thrasher
Catbird
Bobolink.
Least Flycatcher
Palm Warbler.
Purple Martin
Cliff Swallow

## Warbling Vire Sparrow

 Rose-breasted Gros asheville Warbler. Maryland Yellow-throat Scarlet TanagerBlackburnian

$\qquad$

## american Redstart Magnolia Warbler

## Mourning Warbler Bay-breasted Warbler

Red-eyed Vireo
Black-billed Cuckoo....... Whip-poor-will
Nighthawk Indigo Bunting
Black-poll Wart
${ }^{-}$Feb. lb. 8 Mar. 25 25 Mar. 2
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$\begin{array}{r}\text { Apr } \\ \text { May } \\ \cdots \quad \text { May } \\ \hline\end{array}$

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Black-poll Warbler

## s Diary

 ted in birds take a delight in
ecies as they arrive from the pecies as they arrive from the
id them in their observation able eiving the eariesert, hatest



 1 in different ysa arreat varia. migrants than in that of 15 Feb. 24 Feb. $2 ?$ $\begin{array}{cc}\text { Mar. } 10 & \text { Feb. } 28 \\ \text { Mar. } 29 & \text { Mar. } 99 \\ \text { Mar. } 29 & \text { Mar. } 10\end{array}$




## THE HORSE.

## Some Common Leg Ailments.

The most common form of leg trouble in horses is erythenaly stages by local redness, heat, swelling and in intitation. The redness can be noticed only in animal uhbose skin is white, but the other symptoms are readily recogized the disease differ according, to the parts affected express the trouble appears in, the heels it is called "scratches" or "cracked heels; when the greater part of the fever," when the front of the hock is the seat
'riud fever ""anders" and when the trouble exists it it called sene sanders is called "mallanders.
Causes-Some horses, notaby enose whose bone predisposed to High feeding with little exercise also pre to avoin to an attack, but in many cases it appears
disposes to
withoint well-marked cause, doubtless due to some unexplained alteration in the blood. .rent it, as it is
of cases, however, good care will prevent usually caused in tamp stalls, when the heels frequently
hoises to stand in damp become damp or wet with liquid or semi-1iquid manure cold and heat onetate dibilitating diseases, plethora or
friction, dirt, pressure, dibila poverty. Probably the most frequent cause is the habit povery. washing the heels and legs. During late winter or
of wasly spring, when it thaws during the day-time and early spring, when it thaws during the dayt-ime and
freezes towards evening, horses, especially those with Ireezes sewards event hair on their less, come into the stable
considerable lond gair with water and slush frozen ug the hair, and when the cccumulation of mud will be present. In such cases it is common practice for froenen materer or mud off with
kindness) to wash the for warm water, and then stand the horse in his stall and
allow the legs so become dry by the natural heat of
and pens the pores of the skin, and a free secretion sets in which, however, is suddenly checked by the col air o
probably drafts; the vessels of the skin thus become probably drafts; the evestls of the skin thus beome
congested and subsequently infared, and if this practice be repeated a few times cracked hells is usually
the result. Washing withe cold water is not so bad
bit as tre reaction is not so great, but the legs should not
be washed at all unless the teamster decides to remain ee washed at all unless the teamster decices or remain
with his team and rub the legs with clotho or wisps of hay or straw until they become dry, in order to avoid of both time and labor it is seldom done The eafer plan is to athow the horse to stand und the tegs olean, or when there is and-rubbing and allow the rest to drop off as melted by the heat of the legs, and wher the hair become
dry bush well to remove any ten tency to mat, an
diso any dirt or foreign substances shat may be present A fertile cause of that disease called "mud fever," a form that is hard to treat, is the practice of clipping
horses' legs during cold weather. Suddenly depriving appears to cause a congestion of the vessels, which is
followed by inflammatory action of the same and surr und be clipped should, be clipped beefore the weathe becomes too cold in the fovember, else in the spring after danger of sever weather is past, say the middle of April. Spring clip-
ping, in our opinion, is the better, as at this season the fing, in our opmion, ire the better, ation of a long coat and, as he perspires much less without it, he will do more
satisfactory work on less feed than his mate that is not clipped. Then again, as before stated, some horses
are so predisposed to the disease under discussion, ary traits the peculiar quality of bone or other heredi are liable to cuase it. For this, as for all diseases
prevention is better than cure, and, if we recognize he causes mentioned as those that cause the disease we can readily see the means of prevention with reason-
able cratainty. It is seldom the disease appears wher asonnable preventive measures have been observed. swelling, and tenderness to the touch, and a stiffness or lameness, which, with the swelling, , sually disappear
on exercise. After a time the skin cracks, when the soreness and lameness will increase, and there is a
greater tendency to swelling. There will be more or
lest less of a discharge from the cracks, and if intelliegent treatment be not given, the discharge becomes feted,
over-abundant granulations (called proud flesh) appear
and the Treatment. - It is good practice to administer a purgative of 6 to 9 drams of aloes (according to size of
patient) and 2 drams of ginger. This has a tendency

 a rsenic twice daily for 4 or 5 days. The feed should
be light, as hay, bran and a few raw roots. Very little grain should be given unless it is necessary to work the arty stages, in the application of an anticeptic, astringent and coling lotion, as one made of one ounce each of
acetate of lead and sulphate of zinc to a pint of water, nd the weather be warm the lotion should still be used nd the weather be warm the lotion should still be used,
but if the weather be cold better results are usually
obtained from the use of the oxide of zinc ointment,
or 1 part carbolic acid to 30 parts sweet oil, as the lotion is too astringent and drying. Ointments or oils should
not te used in warm, dusty seasons, unless the horse not be used in warm, dusty seasons, unless the horse
is allowed to stand idle, as dust, etc., will adhere to the parts and aggravate the trouble. IIT proud flesh and a once daily with a caustic, as butter of antimony, applied har added polied freshly thtree tites daily for two or three days and nizhts before
using the lotion or ointment.
WrIP.

## Quality in Horses.

There is no subject upon which th ire seems to be more diversity of opinion anongt hros smen than as to
what constitutes "quality" in a horse. I :s a a term in very common use but you ask number o horsemen what One will say it means ireeding; anothen an accentuation ment of lines or or pertapas a magnetism; another, refineof these attributes. Some say hat quality is recog-
nizable, but indefinable and uncxplainable. The term "quality" is an abstract one, indicating a special attribute in an individual, just as being wellbred, well-conformed and possessing finish are attributes "quality" one means that he has a special artseribute which may or may not be combined with any or all of the others mentioned. Of course, there are varying
degrees of "quality," so that the term can only be used in a comparative sense. In the light classes of horses it is very often used synonymously with breeding.
Certainly the more warm-blooded a horse is the higher the degree of quality he is apt to possess, but one may
take two equally well-bred Thoroughbreds and find one take two equalloe of the possession of a higher degree she
of quality than the other. So that bat beeding and quality
do not mean the same thing. Neither does quality


Combination of "Quality" and Substance.
signify the possession of symmetry, good conformation,
finish or "class.' A horse may be defective in any finish or "class.' A horse may be defective in any or
all of these respects and still possess a high degree of "quality." He may be fiddlepeheaded, lop-eared, ewehocked and call--kneed, and yet show much "quality Much confusion is caused by using the term "quality synonymously with class. Horses are spoken degree of excellence they posssess for the purpose for which they are best suited. "Two individuals, can be taken as an
example showing equal "quality" but one of them on example showing equal "quality" but one of them on
account of much better conformation, more style and action, may be worth twice as much as the other
Consequently he is a higher-class individual, althoug Consequently he is a higher-class individual, although
the two are equal in "quality." So that "quality" and class" do not thean the same.
If then, quality does not mean breeding or confor mation or symmetry or finish or class, or a combination of any or all of these, what does it mean? It is an
easier matter to explain what constitutes quality than it is to give a concise and, at the same time, compre-
hensive definition of what it is. It may not inaptly be defined as fineness in conltradistinction to coarseness,
or as fineness of texture. How frequently one hears prospective purchaser say to a dealer: "He is a
 quality" and still further endeavors to make the state ment more emphatic by saying that the bone is so dense
so compact so ivory-like, that a cubic inch of it will weigh more than a cubic inch of some other horse that has indisputably more bone. It is a fact that the bone
of some horses is much .more dense or compact, and is, as the dealer expresses it, of better quality than that of
What causes this greater density in the bones of
some individuals than in those of others? We have to look to the elements of which bone is composed for
he determining cause. The animal tissues are made the of fluids and solids. The oslidid are composed of
unree simple elements, viz: granules fibres and cells
that are only determinable by means of a misroscope
This difference of quality is most easily determinable with regard to the element fifres. The firres that form part of the tissues of an individual of high quality are
more slender, more compact and tougher than thosello one of less quality. One can appreciate this even wit the naked eye in examining the walls of horses' hoofs. the fibres which run rom the coronet down in quality the basis of the wall, are most palpably finer than in those of the wall of a coarser individual. So with the Done; the elements that combine to form it in a horse
of high quality are finer and more highly organize of high quality are finer and more highly organize
than in those of a coarser individual.
What you find in regard to quality in the bones of an indiviual, you find pervading all the etissues of his
organism. You do not find a horse with coarse bone and fine skin, or coarse skin and fine bone. If the horse is fine or has quality, the muscles, tendons, ligaments
skin, hoofs hair and all the other tissues which enter into his composition are equally fine or are of equal quality The quality of a horse's bône may be perfect, but undue or may make his conformation very imperfect indeed, 8 , may make dis contormation very impertect indeed, so think there is any relationship between quality and
conformation A high degree of quality is apt to be associated wit can have too much mulity Size or more a hors substance is strength other things being equal. horse with a high degree of quality may be so lacking in substance as io mpair his power for the periormance may be so light-limbed that he cannot stand the "wea and tear" of hard work and remain practically sound. We orten find horses that are superfine with dispropor tionates that it is seldom that such horses do morsema and remain sound A horse, however cannot have too much quality providing it is combined with sufficien substance for the purpose for which he is required. A
high degree of quality an high degree of quality an 1 ufficient substance are most
important attributes in contributing to perfection in horse flesh.
There are many every-d.y evidences of the ill conse
quences of deficient quality $i$ iorse flesh. You hear a horseman say that a horse has soft legs, and he points fetlocks to show wind galls which extend up the sheath of his back tendons, and whose hocks are inclined $t$ be puffy throughout. If he gets a bruise or injury o any kind to the skin of his legs, the consequent swelling cuts, cracks and scratches heal rather tardily. Con cuts, cracks and scrathes hear are very much inclined
cusion and direct injury to bone are to result in bony enlargement, such as splints, tha spread out and have no well-defined limits. Standin
in the stable too much readily produces stocking of the legs. There is a predisposition to greasy legg. The egs. The inclined to be flat, large and easily bruised
feet are These tendencies show coarseness of tissue and low
organization a meagre blood supply nutrition. Horses with' quality also develop windgall nurnd splintt if subsjected to sufficient cause, , wut thaneis
and sharater differs from those of coarse horses in being clean-cut and well-defined and not having the tendency to spread out. A horse with quality may have a bog spavin, but it will show as a well-defined prominence
and not as a round puffiness of the hock throughout.

Draft horsemen talk "quality" just as much or more
an those who have to do with the light breeds. The difference in the quality of individuals of the draft breeds is just as well marked as in the light breeds breeds have a considerable quantity of long hair on the If this hair is found to be fine and silky tos feather. wiry, you will find that it is possessed by an individual that shows quality throughout. His skin will not be coarse and beery,
ness, showis density of structure. The thair for mane and tail will be fine, like that at the back of his legs. The eminences and depressions formed by the
bones of his head will be comparatively finely chiseled He, in fact, shows "quality" when compared to othe members of the same breed that are equally well bred as far as posessing the characteristics of the breed This is a further example of the fallacy of the view tha quality and breeding are the same thing.

A resolution was carried at the Indian Head Horse meed Association that is of general interest to horse the Government to request owners, who are willing to their stallions; also a record be kept of the satisfaction they give, as far as potency and quality are concerned,
so as to enable the various clubs to have a quick and efficient method of securing stallions.

Keep the colt's feet level and the toes shortened

Guard against scratches and such this spring. Pre
antion is better than cure.

## LIVE STOCK

## Re-Cleaned Screenings.

At the large elevators there is always a large quantity
of weed seeds, small and broken grains screened out of of weed seeds, small and broken grains screened out of
the market grain. At one time these screenings were the market grain. At one time these screenings were
considered of little value for feed, and were very often destroyed by being burned or dumped into the lake. This was a waste of feed products, as the screenings contain quite a large percentage of broken and shrunken
wheat, wild buckwheat, wild oats and flax, all of which wheat, wild buckwheat, will oats and flax, all of which
have a fairly high feeding value. Of course, some of the have a fairly high feeding value. Of course, some of the
weed seeds have no feeding value, in fact, are detrimental to the stock. By recleaning the screenings, a good deal of valuable feed has been secured for stockmen. In an experiment recently carried on at a number of experimental farms, recleaned screenings were compared
with barley as a feed for swine. Twelve lots of pigs with barley as a feed for swine. Twelve lots of pigs
were used. Both barley and screenings were fed alone were used. Both barley and screenings were fed alone,
and also in combination with shorts and feed flour. The pigs were very uniform and highly suited for experimental purposes. The results showed that the lot on barley alone cost $\$ 10.76$ for a hundred pounds of gain, on screenings alone, $\$ 10.12$; barley and feed flour,
$\$ 10.75$; screenings and feed flour, $\$ 10.76$; barley and \$10.75; screenings and feed flour, \$10.76; barley and
shorts, $\$ 10.52 ;$ screenings and shorts, $\$ 10.14$. More pounds of barley were required for a hundred pounds of gain than of screenings, although there were only a few pounds' difference. This shows that screenings gave a little more, economical gain than did barley. Where screenings were the main feed, the pigs
made a daily gain of 1.54 lbs., and where barley was made a daily gain of 1.54 ibs., and where barley was ings ate more than those on barley, thus showing that would not need to hesitate about feeding recleaned screenings. The following describes what elevator creenings are, and gives their chemical analyses. In stead of permitting this by-product to be shipped across the line
What is Flevator Screenings?-This is the tota product which is taken out of the commercial grades of hiped in bulk, as it came from the evars, in the United States. There it was regraded and used excellent advantage
The composition of the complete elevator screenings varies widely, according to the district from which the
wheat was shipped, the quality of the crop, cleanness of threshing, etc. vernment supervision at large terminal elevators, and is commercially separated into the following differen grades and percentages: is subject to further recleaning and, in most cases is subject to further recleaning and, in most cases, and other coarse grains.
is about one-third flax seed of good commercial grade 3. Black seeds, 15 per cent. to 70 per cent. This
varies in composition as in quality, but is composed largely of seeds from pig weed, lambs-quarter and the mustards. All these seeds are useless, and the latter are distinctly objectionable in feeds, adding thereto a bitter flavor which makes the feed most unpalatable.
Black seeds must be removed in order to make screenings Black seeds must
a good stock feed.
4. Recleaned screenings (Standard Stock Feed) In the following paragraphs the term complete elevator screenings denotes the ungraded product as it is separated in the cleaning of wheat, wh le recleaned screenings is screenings which is of special value as a live-stock feed. Recleaned Screenings, Composition of.- This pro-
duct, now available in large quantities for Canadian stockmen, may vary somewhat in character, but is fairly uniform and wherever used is providing an excellent
feed. The average composition of many samples used is as follows:

Broken and shrunken wheat. $\quad$ an $\quad 46.1$ Wild oats...
Oats.
Flax.
Mustard seed
Other seeds.

The actual permer $\quad$| 0.70 |
| :--- |
| 0.65 |

wheat varies more than in the case of the other constitu
ents. Both, however, are of high food value.
A fair chemical analysis of recleaned screenings may
show as follows:

## Protein

Fit.
It will be seen that recleanuel fat than cest shows whe
or domesticated buckwheat. The filte colitent
Grinding Screenings. - The complete elevator screen
ngs may contain grich ang would be imperative, in order
to prevent the spreading of noxious weeds.
screenings, and it is distinctly advisable that this pro- and are finished in plenty of time.
duct be ground finely even where intended for sheep o poultry.
It is practically impossible to grind complete elevator screenings sufficiently fine in the ordinary grinder to destroy all of the smaller seeds. Recleaned screenings however, from which the greater part of the small subject to fine chopping or grinding. That this feature of fine pulverizing is highly important, will be appreciated by owners of clean farms
Appearance of Buckwheat Screenings.-The prospec tive purchaser of this material must not be misguided by its appearance either whole or ground. The unground
product would seem to contain an alarming quantity o product would seem to contain an alarming quantity of ing value almost equal to that of the cultivated variety In the ground form the meal is very dark in appearance due entirely to the color of the wild buckwheat.

Training Live Stock Judges

## Editor "The Farmer's Advocate"

As I have often watched the live stock judge place have wondered if it would not be more interesting if he would give his reasons why one animal was placed above another. Most of the stockmen would be glad to know why one animal was placed over theirs, or why heard two gentlemen talking about judging. One was a prominent breeder and theother a judge at one of the fall fairs. The question was, why they did not give
reasons for placing their awards, and the answer was reasons for placing their awards, and the answer was I do not think the judge would get into hot water if he gave just awards, but perhaps he is sometimes unable to give reasons. The judges at most of the fall fairs are mostly large breeders and judge their own line of stock. Are they qualified enough for their position, and
if so, how is it that their sons, who ought to be exper ienced, do not alwavs take the honors at a judging lenced, do not always take the honors at a judging
competition? One would al nost think that the farmer's son who was experienced would be the better judge,
but such is not always the case.


Niblaw Nimured.
In judging there are two faculties which muthe sellig for 2000 g . special development-observation and judgment. The things as they really are. It is absolutely essentia the standard clearly in his mind. This comes as the an expert judge one must have sufficient to become It would look foolish for a person to say he was an exper mechanic just because he owned and was able to drive his automobile, and it is the same with judging. Be
cause a farmer has pure-bred stock does not necesa cause a rarmer has pure-bred stock does not necessarily
qualify him as an efficient judge. If a person were to
ask some of the judges why ask some of the judges why they had placed this anima
over that one, he might say it was the best type, but the chances are he could not show you the good points deal towards training young men to become efficient judges. The four to six-weeks course he:d by the Disbest types of animals. They train them to give reasons for
their placings. The large fairs, such as the hold judging competitions which are hean and Ottawa, popular with the young farmer, Great interest is
cellent way when the 10 Agriculture, offered a silver cup to the bry, Minister of counties in Ontario offered a prize for if the different in their county, and the prize winner in each condge such as the Canadian prize at some suitable for the championship of Ononal Exhibition, Toranto certainly be an all-round judge, efficient enough to judge in any show-ring.
York Co., Ontario.

Herbert Kane

## The Cheviot Sheep

The Cheviot is a breed of sheep which is not particuarly common in Canada, although there are a len usualy seen at our larger representatives of which are andive line between England and Scotland. The border is mountainous, and the breed possibly got its name from what are known as the Cheviot Hills in hat district. The hillsides are covered with short. Critious grass. Little is known of the origin of the Cheviot. It has been bred in the border countion from early times. Early in the eighteenth cent mention was made of this breed. However, since th ime the character of the breed has undergone siderable change. In the early days there was a tendeniry toward this breed of sheep being upstanding, with thin in 1838 the a close, even fleece. It is claimed that States. Previous Cheviot was brought to the United representatives of the breed in Canada, There were the Cheviot is medium; rams will weigh around pounds and ewes about 160 pounds. As a mutton producer, the breed ranks first class. It does not ay proportion external fat, but the fat and lean are well e expected from are excellent grazers, as wouldbe expected from the environment under which the
breed originated. It is claimed that no breed is more essentially a grazing'sheep. It
does not flock in the way, but each sheep apparently moves about independent of the others; thus a flock will spread
over a considerable over a considerable space. It
is a hardy breed, however,
and if it were to and if it were to flock better
would be an excellent breed for the ranch. The lambs are ently are rom birth, and apparstand severe conditions. There are better breeds as wool pro-
ducers. While the fleece is of good quality, it is a little on belongs to the middle-wool good deal for crossing with other breeds for the produc
tion of mutton. Leicesters Lincolns and Oxford Downs are frequently crossed with the
Cheviot, and produce ranidfattening lambs with highquality flesh. Cheviots are quite popular in England and
Scotland and are to be found in most of the British colonies,
though not to the same extent as some of the other breeds. flocks are found in Quite a number of Cheviol tractive sheep, and at auction sales in England have The a high figure in the "Showing are the points of excellency as given length, broad between the short, fine, white hair. Ears-Nicely rounded and not too long, should rise erect from the head; low set, or
drooping ones are a decided fault, but at the same time they should not be what are called "hair-lugged," that is, too near each other, as that indicates a narrow face, which generally denotes a narrow body. Nose
and Nostrils-Black, full and wide open. NeckStrong and not too long. Breast-Bread and open.
Legs-Set well apart. Ribs-Well sprung and carried Legs-Set well apart. Ribs-Well sprung, and carried
well back towards the hook bones, as a long, weak back is about the worst fault a Cheviot can have. Baokhind quarters full, straight and with mutton. Well hung, nicely fringed with wool. Legs-Must stand squarely from the body (if bent hocks, either out or in,
the latter especially, are looked upon as a weakness) the bone must be broad and flat, and all must be covered a fleece weighing 10 or 12 lbs . of fairly fine wool, densely grown, and of equal quality; coarseness on the top of the hooks is a decided blemish; the wool should meet
the hair at the ears and cheeks in a decided ruffe; the hair at the ears and cheeks in a decided ruffle;
bareness there or at the throat is inadmissible, and it bareness there or at the throat is inadmissible, and The
should grow nicely down to the hocks and knees. The belly and breast ought also to be well covered. The same description when modified will apply to ewes also, which will weigh 100 to 150 lbs . Cheviots, when in a natural state, must grow finer wool, as hard feeding
nclines to make it stronger, but it must be stiff and

## Hon. G. S. Henry, Minister of silver cup to the

 silver cup to the best judge in thevery interesting if the different
ffered a prize for the the prize winner in beach countedy y prize at some in each cuitable planty,
a
National Exhibition, Tornat of Ontario. The winner orould
und judge, efficient enowght to
g . Herbert Kame

## heviot Sheep

reed of sheep which is not particu: tada, although there are a fev ks , representatives of which ger exhibitions in the fall. The Cheviot is on the border
and Scotland. The coll the breed possibly country known as the Cheviot Hills in is known of the with short, 2 bred in the border countrie arly in the eighteenth century the breed has undergone con eearly days there was a tenden eep being upstanding, with thi iot was brought is claimed tha
his his date, however, the Une were
breed in Canada. The 160 pounds will The size of nks first class. It As a mutton it, but the fat and leas are well nvironment under, as would claimed that no breed is more loes not flock in the ordinary oves about independent of oftly
hers; thus a flock will spine a hardy breed, space. It
d if it were to flock
uld

March 6, 1919
Quebec Breeders Meet. President the Hon. N. Garnear, in opening the 2th annual meeting of the General , held at the Place Viger Hotel on Feb. 20, called attention to the progress mears of its existence. He pointed out that the liveyears of itr existence. He poone had received material
stock interests of the province benefit as a result of the efforts of the Association in difierent channeltes being the annual sales of pure-bred stock at stablished centres throughout the province, and the efforts to provide legislation which would benent the
five-stock interests. He was pleased to point out that live-stock interests.
after years of fruitless efforts, a S Sallion Law had been
ar presented to the legislature by Hon. Mr. Caron. He caltioned the members of the Association against resting on their laurels, but urged a great
more might be accomplished in the future.
rogress and the following facts were submitted: The cotal membership of the Association is 977 , made up as ollows: Sheep, Breeders Association, 3 , Mhers, wine Breeders Association, 345 . members; French Canadian Horse Association, 94 member.
The receipts and expenditures for last year have been follows:-Receipts, $\$ 31,715.70$; expenditures, $\$ 26$, 361.70 , leaving a balance on hand of $\$ 5,354.00$.

The following animals have been registered in the 510 arious ecord books, is the course Frene year, viz. orses, 10,255 sheep, and 14,858 swinister of Agriculture elivered a splendid address, featuring the horse breeding end to quite an extent, and pointed out that if we were to assume our proper place as a horse breeding country,
we must attach greater importance to a choice of stallions The speaker referred to the French Canadian horse and cow, and pointed out that the Dominion Farm System
recognized the merits of these breeds, and that they had a place in farm practice. The great drawback being that
the breeds are not sufficiently strong in numbers of the Professor Barton of Macdonald College in his addres emphasized two things,-better sires and more feed and continued to point out that many of our breeders
and farmers had not yet learned the lesson of properly developing their stock, In connection with the swine be prepared to meet the demand of the large market The election of officers for 1919 resulted in the Hon. N. Garneau being re-elected as President, Jas. Bryso The annual meetings of the four affiliated societies
vere held on February 19, and resulted in the following elections for 1919: President, Arsene Denis, Vice-President, Louis Thouin Frenh Canadian Horse Breeders' Association
President, M. Victor Sylvestre, Vice-President, Louis President, M. Victor Sylvestre, Vice-President, Louis
Thouin, Secretary, Dr. J.A. Couture.
Quebec Sheep Breeders' Association: President Nap. Lachapelle, Vice-Presidents, James Bryson, V
Sylvestre, Secretary, Dr. J. A. Couture. Quebec Swine Breeders' Association: President
Louis Lavallee, Vice-Presidents, Clovis Ouiment, Frank

Live Stock Supplies at British Markets.
Editor "The Farmer's Advocar showing the number live stock sumpmitted to market in England, Wales and Scotland in 1918, and a comparative table display
ing the average of numbers submitted in the years 1915-1917

|  | England |  | cotla |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Number <br> 1915-17 | $\begin{aligned} & \hline \text { Number } \\ & 1918 \end{aligned}$ | $\begin{aligned} & \text { Number } \\ & 1915-17 \end{aligned}$ |
| Fat cattle | 374,456 | 642,309 |  |  |
|  |  |  |  |  |
| Dairy cows... | ${ }^{084}$ | 99,541 | 36,1 |  |
| Fat sheep |  |  |  |  |
|  | 1,950,339 | 2,752,084 | 639,325 |  |
|  | 1,011,302 | ,058 | 1,183,264 | 1,2 |
|  |  |  |  |  |
| ore pigs... | 128,896 | 167,741 | 15,458 |  |

Except in store cattle (stores meaning cattle to feed in the figures all around. $\begin{aligned} & \text { During } 1918 \\ & \text { to Aritain } 3,583,582 \text { America sents }\end{aligned}$. of fresh beef and $13,285 \mathrm{cwts}$. Canada bought from Great Britain in 1918, 313 head each, , and 244 sheep said to be worth 1131 sm .3 d . apicee
One pig, also, valued at $£ 46$ was taken from the HomeAmerica, let it be said, bought 600 head of cattle
valued in the official statistics at $£ 10619 \mathrm{~s}$. 3d. each valued in the official statistics at $£ 10619 \mathrm{~s}$. 3 d . each
and 1,181 sheep valued, at f13 5 s . 9 d . apiece. Al
told the value of Britain's cattle exports is set at $£ 388$, 410 , sheep, at $£ 120,441$
1918 and piex exports $£ 4,606$ Canada,
apiece

THE FARMER'S ADVOCATE.

## Going! Going!! Gone!!!

While a few auction sales of farm stock and imple- may have an opportunity of examining them before the ments, and a number of pure-bred stock sales, are held at all seasons of the year, there is usually an epidemic
of sales in February and March and the familar going going! gone! resounds in the spring air. Breeders dispose of surplus stock in the spring; tenants move from one place to another, and hold a sale from force of habit armers, owing to shortage of help or to faling health dispose of their farms and consequently are obliged to another there is sale within a practically every day in February and March and there are men who follow these sales very religiously, looking or "bargains." There are some who claim that better prices are secured at a private sale, but when a man want o get rid of his stuff he wants to do so quickly, and the value out of an offering that includes articles both of iigh and low grade. There is a magnetism about sale which draws men, and women, too, from far and near Practically everyone hias stood at the ring-side and watched the auctioneer dispose of one thing after another at varying prices. Sometimes the price is reasonable Some folk appear to have a mania for buying second hand goods, consequently the auctioneer is enabled to dispose of the most trifing things. It is astonishin the amount of stuff which accumulates about a farm during the course of fifteen to twenty-ilve years. On hever knows what he really has until called upon to
move, or hold an auction sale. Some sales are a big success, while others go flat. Why is it? goods offered, the condition they are in, the managemen of the sale, and upon the auctioneer.Many sales have been disappointment simply because the animals were ou repair. While there is a class of men who purchase only
sale commences. In regard to stock, the owner should know definitely the age of the a to give this information if the bidders request - it. Of course, where pure-bred stock is being sold the information regarding the breed ing, etc., is usually printed in a catalogue. We nave been at sales where the propnifor when he was wanted to give information regarding
stock, with the result that there was either a delay stock, with the result that there was
the sale or dollars were lost because of prospective purthe sale or dollars were lost because of prospective petailed
chases ceasing to bid further without more der information regarding the animals in the ring. The order of the sale and details should be carefully planned and then adhered to. In this way much confusion would be avoided. Every man having a sale wishes to secure as murch for his stuf as possme, andessess or neglect. Some auctioneers are more successful than others. A good deal depends on their personality, their knowledge of to material to be sold and to keep the crowd in good humor. A good many consignment and dispersal sales of purebred stock have been and are being held. In the past some herds have been disposed of at a good figure whing others went somewhat under their value when breeding was taken into consideration. In the eatter case
is no doubt but that a little extra feed and attention is no doubt but that a little extra feed and attention would have netted the owner many extra dexperience in the selling of pure-bred stock, discusses details to be the selling of pure-bred stock, discusses
considered if best results are to be obtained in the following paragraphs.
"There is no locality that I know of in this country where a successful sale cannot be made if a reasonable
amount of business ability is put forth in the preparation of the stock.


## The Bids are All In <br> The above is the gale ring of the London Consignment Sale Co. on the occasion of their fall sale, 1918 .

that which is prime, there are others who apparently can look beyond the present condition of the things
offered and see where, by a little extra feed and care, the offered and see where, by a little extra feed and care, the
value of the animals can be considerably enhanced; or, by the purchase of a few repairs and the use of a little paint, the implements and machinery which now appear practically useless can be made as serviceable as new
stuff. It is not and sundry things about the farm selling at auction for almost the price of new things. In fact, during
the past couple of years the advance in the price of implements and machinery has permitted some to dispose of these effects for practically as much as they
cost a few years ago, while in the meantime they have had these years of service, should commence sometime previous to the date set to get the things in order. The implements should be it would be to his interest. A dollar's worth of paint will very often increase the price of the implements
on which it is used. In the case of live stock it will pay to give extra feed and attention to have it in good condition. This supplies to the sale of grade stock as and in polishing up the horns will be amply repaid. The cattle should also be trained to lead. Many fall down in the management of a sale. In place of having the things to be sold arranged in the at a general farm sale is too often moved from one place to another about the yard, with the result that the crowd is scattered and interest lags. Where possible, the
implements, machinery and sumdry things should bee
grouped in one place and so arranged that the crowd
considered and carefully carried out. Success or failur fies with the man at the neim. In getting catte prepare for a show but is necessary to have them fairly well on. They shou bered food but not overdone. They should be kept clean when in the stable, and well bedded, their feet trimmed so that they walk well and stand level, be exercised and well groomed. The use of a brush and cloth brings.good resuth hand brings out a better gloss on the hair than by any hand brings out a better gloss on the hair than by any
other means. The stock should be well halter broken and taught to pose properly while standing. Many an animal has lost prizes in the show-ring from being badly handled, also many in the sale-ring have not brought the price they should, from the same cause
T have frequently seen an animal brought into the sale ring standing in a most awkward position and the man in charge watching bidders or talking to some friend at the ring side. A good "first impression" counts with buyers "Then too, the man who brings into a sale ring scrawny, awkward animass wonders why he
get more money, and, of course, is disappointed.
get more money, and, of course, is disappointed. "The breeders who make a success of public sale are those who care for the stock from the time they are born untir they are disposed of. They keep the ng it calf flesh on. If an animal is stunted when young it if liberally treated
"When making a sale have the time and place well advertised in some good stock journal, have catalogues carefully prepared, furnish h a proper breeding list. Select
a cosy place for the sale-ring, (which should be well bedled with straw or shavings,) and provide comfort
able seats for the buyers. Albion.
"Bring the animals into the ring in good condition tail, herns poished, the hair clean and silky, trimmed at out. Have them well trained at the halter so as to make the best possible pose while standing. This may be acquired by careful and kind treatment at all times thus awoiding having to lead in nervous, frightened and awkward animals. Do not send inexperienced men to handie stock in a sale ring, if the stock offered be
whothy and the method of selling honorable the sale should surely be a success."
For the convenience of the purchasers, the clerk should be prepared to make settlement whenever desired during the sale. In order to do this it may be necessary to have assistants, which may oftentimes be secured where the clerk was obliged to go to each purchaser to get his name and address, instead of this information being brought to him by someone appointed for this job. The result was that he had no time for attending to the business. Furthermore, he was not supplied with blank cheques and was apparently ignorant regarding shipping considerable inconvenience to many of the purchasers and naturally they were not very well pleased. The man who is in the business, and intends to continue doing business with the public must cater to the purchasers. Furthermore, he should be frank and above board slight defects, it is advisable to mention them when the animat is in the ring, rather than have the purchaser find them out a few months later and become dissatisfied with his bargain. A man who tells the truth about his
animals, gets the repeat orders which every breeder animals, gets the repeat orders which
should expect if his stock is satis
Whether pure-bred stock, grade stock, or farm effects, are to bue bisposed of by by auction, it it is necessary
to have a reasonable sized crowd To secure this the people must know what is being sold. Grade stock and farm effects are usually purchased locally, but with purebreod stock it is different. If the stock has quality and good breeding, men will go long distances to attend the scale. A glance over the report of a pure-bred stock sale wiH show from what distances purchasers are drawn There is really no logical reason why a sale should be
a faiture if reasonable care is ta ken in fitting and training
the stock the stock, and in conducting the sale properly. If every when the been alled to there is no reason why when the last going! going! gone! is sounded by the
auctioneer, both seller and purchaser should not be
satisfied.

## Dogs? Certainly

Editor "The Farmer's
I read an article in "
Ireat an article in "The Farmer's Advocate" with
"areat deal of interest. This article was entitled,
"Dogs or Sheep When of the article, takes the same attitude towards the dog that so many of the writers of the present day do, namely London" either in my persuasive ability as a "Jack or in my affection for man's "companion" the dog, but
I must say that voice in their discourses certainly "'gets on puylic men As the dog can neither speak nor write for himself, I am going to be his "champion" if the Editor will let me. article, that he never had a dog. Anyoñe who ever had a "real dog", would know that before he had read halfstand on the dog question. The dog has been blamed for retrogression in the
sheep raising industry in America. If it had tot been for the dog sheep would be found on every farm, we spinners would be put out of business, we would be spinners would be put out of business, we would be
shipping wool and frozen carcasses to Europe and there
would not be Anyone who has given the matser very serious con-
sideration knows that we must look farther than the domer sitting on our door-step for the decline in the shee aising industry which was steadily taking place up to fertile plains of Western America and Australia made ideal sheep ranches, Pasture was abundant and cos practically nothing. Flocks increased rapidly. Transportation facilities were rapidly improving from year America. Steamship service was developed to Australia. producing fas been that these two great mutton and woo proll it ing eentres were able to produce their product and
sell it on
the open market far cheaper than it was able for the eastern farmer to dispose of his. The result has been that the eastern sheep raisers gradually went out of business except the breeders of pure-bred stock who
found a ready sale for all their animals as loreeding stock for the western ranges.
The war caused many changes in the merchantile world. Perhaps none felt it as much as the sheep
raising industry. Every available vessel was needed for transporting men and munitions, the Australian
supply was naturally curtailed. With the almormal demand for wool for the manufacture of uniforms and blankets for our men overseas, the price naturally
went sky-rocketing. We civilians have had to pay
dearly for our woollens, which hat best were but a mivture of shoddy and cotton. Surely we cannot trace all the
changes in the sheep industry to the dog. paying two-fifty for a suit of good woollen combinations
and inside of two years has to pay more than twice the
arice for on
the dog is usually the handiest thing to kick, he cer
We all must admot that thare are numerous animal funning at large throughout the country that are no samples of all the known breeds with perhaps polittle wolf or coyote thrown in for good measure. This in discriminate breeding has given us a dog with the dis position and traits of the "Historical Half-Breed." A being without any of the good points of any of its pure-bred ancestors, and all of their bad traits conmoonlight night he finds the wander-lust of one of his remote ancestors creeping through his veins and we find him on a knoll behind the barn barking at the moon This hunting call of the pack awakens the dorman stinct in the mind of a dog of similar breeding ove In a short time thesy are who replies in like manner. The next day it is reported that a number of sheep is on been killed in the neighborhood, which is what we would expect.
Dogs as a class may be divided into two distinct divisions, dogs that are representative of some of the
known breeds known breeds, and mongrels or curs. With but few
exceptions it would be a Godsend wo the owners as well as to the country be a Godsend to the owners as well were sent to the "happy hunting ground". The most of the sheep-killing and depredations by dogs. throughout the country are caused by this class of canines. While it may sound inhuman to destroy them as a class,
nevertheless it would be good business. The same


## On Guard.

annot be said of the dogs which are representative of some breed. All the difrere breeds have been bred more or less useful to man, but are in disfavor because There is only one breed of dogs suitable for ou larms, the collie. He fills the bill every way you take a hoop to counting. As a watch-dog he is bethrough the notorious bull. As a playmate and caretaker and the steps he has no equal. The services he renders many times over saves around a farm pay for his keep could not buy are numerous. They say they could not run their farms without them. Their view is not taken from a purely sentimental standpoint, but from a straight I have been the champion carried a six weeks old puppy home in my pocket seven
years ago. This same collie has done more years ago. This same collie has done more to win
the war than lots of people. She has watched the farm at night, is always on hand to help with the cattle,
horses or hogs, and most of all-there are about fifty of her sons and daughters throughout the country, who are all practical farmers who paid five dollars for their pup
When
cows at night, I cannot think of anything to bring the cows at night, I cannot think of anything pleasanter
than sitting down at the gate while the dog brings the cattle up for you; or when you are tying them in-to go on in the stable and have the old dog bring them in
as well or better than you could yourself. This not a mythical story, but just an instance of what the
dogs are doing every day throughout the country dogs are doing every day throughout the country,
and it is the main reason the farmers will pay their dog tax and persist in keeping "the sheep raisers plague.' The assumption that you cannot have both sheep and where sheep are raised extensively, In Great Britain his dog. Coming home to our own province, we find America-also a breeder and exhibitor of collie doss. can well remember being at the home of the man who time in the spring. He was going a rourd the lambing
pens looking after the newborn and weak lambs his og was with him. The ewes were not the least labs, his fiten landing alongside the mone pen to the other, fen landing alongside the mother and her wobbly
fispring. I cannot imagine such dozs as a menace to We have heard a lot about the money farmers have
pure-bred sire and improve their stock. The same can be said of the horse; only the Goverriment has gone one
step farther and we have the Stallion step farther and we have the Stallion Enrolment Aet
Would it not sound more sensible and instead of wasting so much effort trying to have al the dogs exterminated-when they have proven them start a dog improvea assistance to the farmer-we would mongrel dog along with the scrub bull and thith the stallion. By all means let us have dogs, but let theo be good dogs of a useful breed.

## THE FARM

## Flat Rack Changed Into Sliding

 Rack
## Editor "The Fipun's Adro

For the benefit of your readers I have outlined what tay rack imple of converting an ordinary fat no farmer who expects a serviceable roller rack, which not only because it makes loading hay it saves one man but also because

The rack described is sixteen feet doing it.
ad one-half feetribed is sixteen feet long and seven half feet apart, but I would tracks are two and onethree feet apart if I made aother. The nolso need not be tightly boarded, thus saving considerable in cost and weight. The car is made of two one-inch by four-inch boards, with twa by twoinch piece clamped in between so as to form a flange to run on both sides of the track. Each side of the car is equipped witt three wooden rollers, (I simply sawed suppel into the desired lengths, The centre rouder bedpos raised a little off the track so as to act as auxiliary only when platform is loaded
windlass was simply the loaded platform forward at the rear of the rack suck into the rack-lifter hooks the rack and through a pulley fastened on front end ol hay fork rope clamped the roller platform. An old do for a windlass. The windlass may be put on front end of the rack, if convenient, saving the price of a pulley. The tracks are made of pine, two by two and
three-quarter inches, but hard wood would be better The rollers are less than three inches in diameter. Stop blocks must be placed on the front end of rack to avoid Brother
sliding rack. It will save your muscles and helo pout to enjoy those hot days next haying season.
Waterloo Co., Ont.
MILTow A. Bechrel.

## A Method of Raising Revenue.

eported official reply by the Canadian Manufacturers Association to and all indications Cana point to a Councit, of Agriculture, struggle in Canada in the near future. The organized armers are demanding on their side that the economic ourden placed on their shoulders by the protected acturers have replied in effect that organized mant-
hoy do not intend have the tarriff interfered with one iota.
Their main contentions seem to hinge on the question claim the total federal revenue from all forms. mhey during the last fiscal year was $\$ 214,182,156$ and the of $\$ 150,000,000$ will be required to meet a next years expenditure. The manufacturers advise the best way in raise this amount is by the tariff as. they point out raised during the method, and they urge that should be maintained. If we are to follow the advice of the manufacturers and make the tariff collect the bulk of the revenue we during the least double our purchase of foreign-made goods made goods the revenue because by huying foreign-: Canada to help meet the expenditures of the country It is a good suggestion, however. If we purchase
sufficient foreign-made goods we can make the tariff take care of the entire revenue and thus avoid being taxed in other directions. By following this method we would find ourselves considerably ahead in pocket, as we pay the same price for an article whether it is
made in Canada or imported So in order to be truly patriotic and provide revenue for our Government
farmers should make machinery they require in foreign markets. As to the manufacturer's anxiety in regard to the notice that the returned soldiers in Winnipeg had to stand over them with a club before they would part chance, they make abor and give the returned men a chance, they make a plea for more time in order that the
boys will become sufficiently humbled so that when they
become their employees they will not dare to vote otherWise than they are directed.


Founded 1866
ve their stock. The same can
the Government has gone e the Starnment has gone one re sensible and reasonablet. huch effort trying reasonable fif
when they all when they have proven then-
ance to the farmer-we would campaign to do away with the
the scrub bull and the et us have dogs, but let them
breed.

FARM.
nged Into Sliding ack.
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job for the one doing it sixteen feet long and. seve The tracks are two and oneuld make them no less than
antother. The roller platform another. The roller platform
led, thus saving considerable car is made of two one-inch ith two-by-two-inch pieces
oform a flange to run on both de of the car is equipped witt nply sawed a round bed-post
The centre roller may be so as to act as auxiliary only loaded platform forward
into the rack-lifter hoolk the rope run forward under lley fastened or front end of he roller platform. An old
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Muton A. Bectren.
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61 per cent. of the revenue year cent. of the revenue
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rice of the manufacturers ie bulk of the revenue we chase of foreienn-made goods
chase by buving foreign :s to the Guving forerign nditures of the country.
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following this method iderably ahead in pocket, an article whether it il
So in order to be truly Yor our Government,
of purchasing all the ign markets.
anxiety in regard to the iers in Winturned men,
in had to before they would part ore time in order that the ill not dare to wote they
ind is no time to make any

March 6, 1919
should be avoided, yet they made all haste to Ottawa to shy and have the duty on small tractors restored. However, the farmers must have a few friends in the Government strong enough the result that tractors on the free list for anothe the result that tractors go on the free list for another
year. At this session of Parliament the Government year. At this
should make this a permanent law.

So the farmers have gained the first ground in the tariff fight and they will win out if they hang together and iney don't hang logether whey all hang separately.
Middlesex

## A Glimpse Into the House of Commons

The outstanding event in the political arena at Ottawa, following the death of Sir Wirrid Laurier the departed Opposition Chieftain in the House Commons for the present session. As stated last week Comm nor for time only on Thursday, February 20 and adjourned until the following Tuesday, out of respect for the late Opposition Leader. The interim, aside from the state funeral on Saturday, was fully occupied by the Opposition in preparation for party caucus on Monday. The result of this caucus, while undoubtedly known beforehand to a small coterie ne else All this, of course need necessarily have n deep sigmificance for the average farmer, but it may however, especially when conjoined with the number of Liberal-Unionists now supporting the Government, assume much greater significance as the session advances
Regarding the debate on the speech from the throne not much can be said as yet, for the reason that at the time of writing proceedings have apparently just been tarted. We have not yet reached a sufficient degree o satiation to make adequate comment on the needles aste the house. A great deal of wist nearly every member who rises to speak, a destructive practice apparently accepted as a cardinal principle of good conduct and recognized as a bounden duty of he members, by Government and Opposition alike.
One point in an address by the Hon. F. B. Carvell t has to Public Works, is worthy of comment here ltogether with Canada's financial position and is no fixed yearly expenditures due to the war alone will mount to about $\$ 185,000,000$ for some years at least, while the whole income of the country from the three principal sources of revenue, namely, customs duties excise duties and income and business profits tax, will amount to no more than $\$ 195,000,000$. In addition 000 yearly quarter This a matter deservin er by everyone, especially as the estimates which will e brought down in a short time may be expected o suggest means for meeting this extra expenditure. remember the oft repeated statement that question to lebt must be paid from the top statement that our national ian soil and that, to use figures estimated roughly by the Minister of Public Works in his recent speech his national debt will be little if any short of two billion dollars.
What of the farmer? Will he and his affairs figure Aside from the abne in the discussions of the House? the pursuit of farming during the last four years, a from an analysis probable discussion might be obtained tion which is given herewith. An study of the table given shows 68 lawyers, 32 farmers 22 the tabl 19 physicians, 17 manufacturers, 11 journalists, 8 4 brokers, 3 notaries purs, 5 financiers, 4 military, 4 agents, 2 contractors, 2 ship owners, and one each of the followcountant, land surveyor, gas and oil operator plumber entist, veterinarian, passenger conductor, public sant and professor. There is, it will be noticed, a small percentage of farmers and of these that are
listed as farmers, some, it is to be feared, are not of the simon pure variety. Nevertheless, the sentiment emanating from the farms of Canada is at the present ime being expressed so strongly that farm opinion ment and Opposition. Both realize the potential strength mental importance of and both appreciate the fundaopinion that, rather than from a desire to legislate for he economic betterment of Agcicдlume, both Governfrom political motives. Politics is the deepest game man ever invented and history has proven time and again

## Members of the House of Commons.

| Constituency | Member | Political Affiliation | Occupation |
| :---: | :---: | :---: | :---: |
| Algoma, East | G. B. Nicholson | Unionist | Lumberman |
| Algoma, West | T. E. Simpson | Conservative | Merchant |
| Antigonish and Guysborough..... | J. H. Sinclair. | Liberal. | Lawyer |
| Argenteuil........................ | P. R. McGibbon | Liberal | Lumber Merchant |
| Assiniboia | J. G. Turriff. | Liberal-Unionist | Politician |
| Bagot...... | J. E. Marcile | Liberal. | Merchant |
| Battle River | W. O. Wright | Unionist. | Rancher |
| Beauce. | Hon. H. S. Beland | Liberal. | Physician |
| Beauharnois | L. J. Papineau.. | Liberal. | Lawyer |
| echasse | C. A. Faurnier | Liberal. | Druggist |
| Berthier. | Theo. Gervais. | Liberal. | Physician |
| Bonaven Bow River | Hon. Chas. Mar | Liberal. | Journalist |
| Brandon | H. H. Halladay | Unionist. | Insurance Agent and Farme |
| Brant. | Ino. Harold |  |  |
| Brantford | W. F. Cockshutt | Conservativ | Manufacturer |
| Brome. | A. R. McMaster | Liberal. | Lawyer |
| Bruce, North | Hugh Clark | Conservative | Publisher |
| Bruce, South | R. E. Truax |  | Manufacturer |
| Burrard | S. J. Crowe | Liberal-Unionist | Retired Contractor |
| Calgary, East | D. L. Redman | Unionist. | Lawyer-Financier |
| Calgary, West | T. M. M. Tweedie | Cons.-Unionist | Lawyer |
| Cape Breton North and Victoria. | a D. D. Mackenzie. | Liberal. | Lawyer |
| Cape Breton South and | J. C. Douglas | Lib.-Conservative | Lawyer |
| Richmond. | R. H. Butts | Lib.-Conservative | Lawyer |
| riboo | F. J. Fulton | Cons.-Unionist | Lawyer |
| arleton. | Geo. Boyce | Unionist. | Farmer |
| Chambly and Vercheres | Jos. Archambault | Liberal. | Lawyer |
| Champlain | A. L. Desaulniers | Liberal. | Physician |
| Charlevoix-Montmórency | P. F. Casgrain. | Liberal | Lawyer |
| Charlotte | T. A. Hartt | Conservative | Farmer |
| Chateauguay-Huntingdon. | J. A. Robb. | Liberal. | Merchant Miller |
| Chicoutimi-Saguenay. | E. Savard | ..Liberal. | Physician |
| Colchester | F. B. McCurdy | ..Cons.-Unionist | Financier |
| Comox-Alberni | H. S. Clements. | Conservative | Farmer and Estate Agent |
| Compton. | A. B. Hunt. | . Liberal. | Lumberer \& Real Estate Dealer |
| Cumberland | Hon. E. N. Rhodes. | ..Lib.-Conservative | Lawyer and Financier |
| Dauphin. | R. Cruise | . Liberal. | Farmer |
| Digby and Annapolis | A. L. Davidson | Conservative | Lawyer |
| Dorchester | L. Cannon | Liberal | Lawyer |
| Drummond and Arthabaska | J. O. Brouillard | Liberal. | Financier |
| Dufferin. | John Best. | Conservative | Farmer |
| Dundas. | O. D. Casselman. | . Conservative. | Merchant |
| Durham. | Hon. N. W. Rowell | ..Liberal-Unionist | Lawyer |
| Edmonton, East | H. A. Mackie | Unionist | Lawyer |
| Edmonton, West | W. A. Griesbach | ..Conservative-Unio | Military |
| Elgin, E. Riding | David Marshall. | ..Conservative | Canner (Fr. and Veg.) |
| Elgin, W. Riding | Hon. T. W. Crothe | Conservative | Lawyer |
| Essex, N. Riding | W. C. Kennedy | ..Liberal. | Gas and Oil Operator |
| Essex, S. Riding. | W. Brien | . Conservative-Unio | Physician |
| Fort William and Rainy River | R. J.Manion. | ..Liberal-Unionist. | Physician |
| Fronte | W. Edwards | . Liberal-Conservat | Physician |
| Gaspe | Hon. Rodolphe Len | ..Liberal.............. | Lawyer |
| George Etienne Cartier | S. W. Jacobs. | Liberal. | Author |
| Glengarry and Stormont. | (Vacant) |  |  |
| Groucester. | O. Turgeon... | .Liberal.. | Journalist |
| Grenville ........ | Hon. J. D. Reid | .Conservative | Manufactur |
| Grey, N. Riding | W. S. Middlebro | ..Cons.-Unionist | .Lawyer |
| Grey, S.E. Riding Haldimand | R. J. Ball. | ..Conservative | ..Merchant |
| Haldimand | F. R. Lalor | . Conservative | ..Merchant and Migr. |
| Halifax. | \{Hon. A. K. McLea | Lib.-Unionist | Lawyer |
| Halton. | .R. K. Anderson | Cons-Unionist | Physician |
| Hamilton, E. Riding | Hon. S. C. Mewb | . Unionist. | Lawyer |
| Hamilton, W. Riding | T. J. Stewart. | Conservative | Manufacturer |
| Hants.. | ..H. B. Tremain. | Conservative | Lawyer |
| Hastings, E. Riding | ..T. H. Thompson | Cons.-Unionist | Cheese Buyer |
| Hastings, W. Riding | E. G. Porter | Conservative | Lawyer |
| Hochelaga. | E. Lesage.. | Liberal. | Physician |
|  | E. Fontaine | Liberal. | Physician |
| Humboldt | . Norman Lang | Unionist | Farmer |
| Huron, N. Riding. | Jas. Bowman. | Conservative | Politician |
| Huron, S. Riding | J. J. Merner | Conservative | Merchant |
| Inverness......... | A. W. Chisholm | Liberal. | Physician |
| Jacques Cartier | ..D. A. Lafortune | Liberal. | ..Lawyer |
| Joliette........ | J. Denis. | Liberal | Lawyer |
| Kamouraska | ..Ernest Lapointe | Liberal. | Fawyer |
| Kent (N. B.) | A. T. Leger.... | Liberal | Farmer and Mfgrs. Agent |
| Kindersley | E. T. W. Myers | Conservative | Physician |
| King's (N. S.) | Rt. Hon. Sir R. L. Borden. | Conservative | Lawyer |
| King's (P. E. I.) | Jas. McIsaac. | Cons.-Unionist | Journalist |
| Kingston. | W. F. Nickle | Unionist. | Lawyer |
| Kootenay, E. Riding. | S. Bonnell | Unionist | .Physician |
| Kootenay, W. Riding | R. F. Green | Conservative | Merchant |
| Labelle. | H. A. Fortier | Liberal. | Lawyer |
| Lambton, E. Riding ...................I | I. E. Armstrong | Conservative | Manufacturer |
| Lambton, W. Riding | F. F. Pardee | Libe | Lawyer |
| Lannark Laprairie and Napierville | Vacant |  |  |
| Laprairie and Napiervill <br> L'Assomption-Montcalm | R. Lanctot... | Liberal | Notary Public |
| Last Mountain...... | J. F. Johnston. | Unionist | Farmer |
| Laurier-Outremont | R. R. Du Tremblay | Liberal. | Lawyer |
| Laval-Two Mountains.................I | I. A. C. Ethier | Liberal | Lawyer |
| Leeds . | Hon. Sir Thos. White | Conservative | . Fnancier |
| Lennox and Addington................W. | W. J. Paul... | Conservative | Cheese Manufacturer |
| Lethbridge | W. A. Buchanan | Liberal-Unionist | Publisher |
| Levis... | J. B. Bourassa | Liberal. | Notary Public |
| Lincoln | I. D. Chaplin | Unionist | Manufacturer |
| Lisgar.......a - - . . - | F. Bolton | Cons.-Unionist. |  |
| L'Islet............................ | I. F. Faford. | Liberal. | Land Surveyor |
| London Lotbiniere....................... | Hume Cronyn | Unionist | Financier |
| Lotbiniere........................ | Thos. Vien | Liberal | Lawyer |
| Lunenburg | Wm. Duff | Liberal. | Shipowner |
| Macdonald ..................................... | R. C. Henders | Ind.-Unionist | Farmer |
|  | I. F. Reid...... | Lib.-Unionist Unionist.... | $\xrightarrow{\text { Farmer }}$ |

Members of the House of Commons---Continued.

| Constituency | Member | Political Affliation | On Occupation |
| :---: | :---: | :---: | :---: |
| Maple Creek...........................J. A. Maharg..................Independent...............Farmer |  |  |  |
| Marquette........................ | Hon | , | Pres. United Grain Co. |
| Matane | F. J. Pelletier | Liberal. | Farmer |
| Medicine Hat. | Hon. A. L. Sif | Unionist | Lawyer |
| Middlesex, E. Riding. | S. F. Glass. | Liberal..... | La |
| Middlesex, W, Riding. | D. C. Ross | Liberal. | Insurance Broker |
| Montmagny............... | A. M. Kay | Liberal. | Farmer |
| Moosejaw | Hon. J. A | Liberal-Uni | Lawyer. |
| Muskoka | Peter McGibbon | Liberal. | Lumber Merchant |
| Neepawa.................. | J. C. McInto | Unionist | Lawyer |
| on. | J. A. Campbell. | Liberal-Unionist | Lawyer |
| ster. | W. G. McQuarrie. | Unionist |  |
| let.............. | A. Trahan | Liberal. | Lawyer |
| ssing | C. R. |  | Passenger Conduc |
|  | W. A. Charlt |  |  |
| Northumberland | C. E. Long. | Liberal-Unionist. | Farmer |
| Northumberland (Ont.) |  | Liberal. | Manufactur |
| Ontario, , R. Riding Ontario, S. R |  | Conservative |  |
| Ottewa | Wm. Smith | Cons.-Unionist | Farn |
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| Oxford, N. Riding |  | Cons.-Unionist |  |
| Parry Sound..........................as. Arthewat................ Unionist................ Lawyer |  |  |  |
| Peel | Jas. Arthurs. | Conservat | Hardware Merchant |
| th, N. Riding..................... B. Morphy ........ Cons.-Unionist...........eublisher |  |  |  |
| Perth, S. Riding. | M. Steele. | Conserv |  |
| Peterboro, W. Riding............. . . . Sexsmith . . |  |  |  |
|  |  |  |  |
|  | Alex. McGr | Conservat |  |
|  |  |  |  |
| Port Arthur and Kïn | Hon. Arthur Meighen | Conserva | Lawy |
| Portneuf............................ S. . Delieler.................Unionist |  |  |  |
| Prescott. | E. Proulx | Liberal. | Merchant |
| Prince Edward................ B. R. Hepburn |  |  |  |
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| Qu'Appelle....... | Levi Thomson | Liberal |  |
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| Quebec, South Quebec, West | G. Power | Liberal. | Lawyer |
| Queen's (P.E. 1.) |  |  |  |
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| Renfrew, S. Riding ........... J. Mackie..............Unionist................ Lumberman |  |  |  |
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| St. Antoine | Sir H. B. Ames | Conservativa | Lawyer |
|  |  |  |  |
| St. James. | J. Gouthier | Liberal. | Lawyer |
|  |  |  |  |
| St. John and Albert | more | Conservativer |  |
| St. Lawrence and St. Geerge M. J. Demers. .i............................................................. |  |  |  |
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| Temiscouata ...n) . .C. A. Gauoreau ............... Liberal.. |  |  |  |
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| Three Rivers and St. Maurice J. Bureaut.................. Liberal................ournalist |  |  |  |
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| Toronto, West $\quad$ He He C. Hocken Unionist.......... Physician |  |  |  |
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| Welland, S. Riding - F.S. Scott........ Conservative |  |  |  |
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| Wellington, N. Riding Conservative Fontractur |  |  |  |
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I Our Scottish Letter. I am writing in the midst of one of the most on inous
labor disputes this city has ever known. I have beed
resident in Glas reordentisputes this city has ever known. I have been since the last month of 1875 , end
rep to yesterday up to yesterday 1 had never heard of the Riot Act being
read in our streets, and a charge
the the police with drawn batons. As a result of yete day's melee in front of the Municipal Buildings and and over fifty citizens and about sore heads to-day the porice force, including about a dozen members of
sustained sustained more or less serious injuries. Four persen including a Town Councillor, are unies. Four persons,
Town Councillor vanished was likely to be vanished yesterday when he saw then was likely to be trouble and sore heads, but he wais
arrested in his own house in the small hours on morning. The charge against these persons is of thit inciting, to breaches of the peace. The persons is trikes and
the strikers are the strikers are discountenanced by the srespensibible Trades Union leaders, but a policy of terrorizing has
been adoopted, and what is erroneously picketing" at the entrance to public works, is in opers tion. As a result many men are in a state of enforcid
idleness idieness who desire to work, and protest meetings hawe
been held by the more orderly and sober-minded of he workers. The city is tor-day being paraded by detachments of soldiers, with arms in readiness, and as far as I can learn things generally are quiet, What is the
ostensible cause of the trouble is more than I can tell ostensible cause of the trouble is more than I can tell
Some time ago certain classes of workmen resolvel ors forkours week. This, by agreement, was to be tried not in operation for three weeks before discontent was expressed and trouble began. Some men want a 40 . hours week, although what they mean to do with the
 workers put in a 54 -hour week will easily beat the nation whose workers will only toil for 47 working hours in the six days.
usual in the problems are bulking more largely than gress for establishing a Plant. Breeding and Research Station on the lines of the well-known Swedish station have been Tery results of the work done at that station equally good results should not be obtained atas a why in Scotland. In quite an unusual degree Scotland is an ideal site for such an institution. Many plants are grown in Scotland for seed, and such seed is very populat England. The reason is obvious. Our northerm the sunnier climes. Ayrshire is famous for its prodict of perennial rye-grass, Aberdeenshire for its turnips, and Fife and the Lothians for potatoes; with the ex. ception of rye-grass Scotland has not excelled in the
production of grasses. It has been much more famouse production of grasses. It has been much more famouss best varieties are of Scottish parentage. Mr. McKelvie, a baker in the Isle of Arran, has produced the famous two other vieties in the market success he has put is at present selling at a fabulous price one of them reason, of course, is that the stocks are limited. Another famous seed potato grower is Dr. John H. Wilson, St. Andrews. This enthusiastic worker has done splendid
service on very growers of seed wheat, Sherriff, was an most famous farmer. Altogether there is good reason to anticipate that the Scottish Plant Breeding and Research Station will prove an unqualified success. A sum of 640,000 or
650,000 is wanted fourth of that sum to set it in motion. About one. be an uphill job retting the balance but the promoters are sanguine.
A further scheme is spoken of for research into sheep diseases. The losses from the two diseases of "louping know how this figure is made out but we do know that the losses from these two diseases are very heavy Scientific men have been wrestling with these diseases, being made but much purpose. A renewed efort in place of concentrating on one great effort and allocating certain lines of inquiry to certain institutions, these institutions are engaged in a kind of race for position, with the result that very little progress is being made and consolidation of effort and it is to be hoped that it may come to fruition. The spectacle of one scientific man saying to another: "Your methods are all wrong: they wiln never lead you anywhere," does not make for sound results. The first thing is to get rid of this sorf
of rivalry, and efforts to that end are worthy of every encouragement. What we badly need in Scotland is a liberally-endowed, and efficiently-manned Board of Agriculture. Neither of these things can be said to be at our disposal, meantime efforts towards their attainreach their goal: as for others we should think the issue to be doubtful. Parochialism is painfully rife in the higher command, and while this condition persists no
great success can be and reat success can be achieved

## Clydesdale Activities.

Clydesdale breeders had a great outing on Tuesday, by William Dunlop, Dunure Mains, except three, were sold in Ayr market. The three retained by Mr. Dunlop
are Dunure Footprint 15203 , whose terms this season are Dunure Footprint 15203 , whose terms this season
are to be $£ 50$ at service, and $£ 50$ additional for a foal; the great old horse Auchenflower 12007, a wonderfully well-built draft type, and the yyung horse Dunure
Vorman 18709 , a comparatively young horse whose

## cottish Letter.

 ty has ever known. I have bout ince the last month of 1875, nen nd a charge following therene being n batons. As a result of en o of the Municipal Buildings and e many have sore heads today uding the chief constable suncillous injuries. Four persom shed yesterday when arrest. The ble and sore heads, but he wahouse in the against these persons is that of against the
ot the pee
ontenanced butced by the strikses and hat is erroneously called terroring hass $y$ men are in works, is in operas work, and protest meetinobis to-day being paraded by
arms in readiness, nerally are quiet. What is trouble
classes by of workmen res can tic for some ree weeks before discontent was
began. what they mean men want a 40 . e they are not sleeping, has never r week will easily beat the nation
toill for 47 are bulking mo armes. A movement is in pro the well-known Swedish Research and there is no reason why uld not be obtained at a station institution. Many plants is son is obvious. Oery popular ith more enduring qualities than
rshire is Aberdeenshire for its turnips, otland potatoes; with the exIt has been much more in the usually large proportion of the tish parentage. Mr. McKelvie,
Iran, has produced the the market, and he has put abulous price per ton. The ver is Dr. John H Wilong St
astic astic worker has done splendic eans. One of the most famous
Sherriff, was an East Lothian
re is e is good reason to anticipate
Breeding and Research Station
and success. A sum of $£ 40,000$ or
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read the balance, but the promoters
n the for research into sheep ted at $£ 1,000,000$. We do not
tade out, but we do know that wo diseases are very heavy,
wrestling with these diseases, ly the forces are divided one great effort and allocating little and of race for position at is on foot for unification,
and Your methods are all wrong thing is to get rid of this for e badly need in Scotland is a hese things can be said to be ome of these appear fitted to
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ctivities.
great outing on Tuesday, Mains, except three, were
ee retained by Mr. Dunlop
mis $£ 50$ additional for a foal; the young horse Dunure

March 6, 1919
ГHE FARMER'S ADVOCATE.
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Members of the House of Commons---Contiuued


York-Sunbury....


A Mesting of the U. F. O. Board of Directors.
breeding constitutes something outside of the Baron
Pride line. At the sale Mr. Dunlop sold 13 stallion Pride line. At the sale Mr . Dunlop sold 13 stallions
without a reserve. They drew a total sum of $£ 21,792$ without a reserve. They drew a total sum or 15 s ., or an average of $£ 1,6767 \mathrm{~s}$. 4 d . each. The highest price was 4,900 guineas ( $£ 5,145$ ), at which fgure Dunure
Independence 18706 became the property of Robert Independence 18706 became the property of Robert
Bryan, Orchardton, Cumnock. Dunure Kaleidoscope 18335, which has won both the Cawdor Cup and the rydon Challenge Shield, Ferguson, Surrodale, Elgi who has one of the largest and most valuable studs of Clydesdales to-day. Both of these horses are got by
the $£ 9,500$ horse, Baron of Buchlyvie 11263 , about which there was the great litigation some years ago. Dunure Keynote 17869 , also by the same sire, and own
brother to the famed Dunure Footprint, made 3,300 guineas ( $£ 3,465$ ) his buyer being John Baird, M.R.C.V.S., and in high favor with Clydesdale breeders. Dunure ffered, and a Cawdor Cup winner, when two year old, made 3,500 guineas ( $£ 3,675$ ) his buyer being John P. was acting on behalf of Falconer Wallace, of Balcairn, Shorthorns, which has been transferred to Aberdeen is Dunure Ernest 19101 . He was bred at Harviestou by J. Ernest Kerr, and was got by Dunure Footprint, grandam, Chester Princess by Baron's Pride 9122 .
His sire, dam and grandam, and also the full brother of his dam, the Noted Scotland Yet, were all winners of pedigree record. He was bought by John Pollock,
Byres Farm, Pollokshaws Hiawatha 10067. For Dunure Ernest Mr. Pollock paid 1,100 guineas ( $£ 1,155$ ). A very good young horse
but somewhat gaudily-colored is Dunure Steel 19429 . He was bought by James Dick, Balinton, Blair-Drum-
mond, at 1,060 guineas ( $£ 1,113$ ). There is a movement on for the purpose of more effectively advertising the
Clydessdale breed, but a sale of this kind is an advertisebought as commercial speculations. All of them are
hired for 1919; more than one of them for 1919 and 1920, and Dunure Kaleidoscope is hired for 1919,
1920, and 1921. A draft breed which can produce
stallions named, to tenant farmers who have to earn the prices
that way
that Ayrshires Prospering.
Ayrshire cattle breeders are having great trade for
their bull calves, and have been making record prices.
During Jonery During January several sales were held, and wherever
good milk records were shown in the pedigree, and
the dams were seen to have good silky vessels and pliable long teats, great prices were obtained. The
highest prices on record for an Ayrshire bull calf was made at the Bargenoch sale of John Logan, on Wednesday, January 15. A. W. Montgomerie, Lessnessock. Ochiltree, there paid 1,420 guineas ( $£ 1,491$ ) for the bull
calf Bargenoch Royal Champion. This youngster is calf Bargenoch Royal Champion. This youngster is
own brother to Bargenoch Casabianea, for which at the previous sale two years ago Mr. Montgomerie paid 320 guineas ( $£ 336$ ). The dam of these bulls had in her first lactation period of 37 weeks a record of 1,045 gallons of 3.91 per cent. butter fat. In her second
lactation period of 41 weeks her record was 1,053 gallons at 3.88 per cent. butter-fat. In her third of the same duration her record was 1,085 gadlons at 4.09 per cent. butter-fat. At Mr. Montgomerie's own sade in Novem-
bet last, 15 bull calves, bet last, 15 bull calves, got by Bargenoch Casabianea,
made an average of f141 each. The average for 17 made an average of $£ 141$ each. The average for 17
bull stirks at the Bargenoch sale was $£ 159$ 13s. 3d. Seven got by the home-bred Bargenoch Magnificent made. $£ 309$ 15s. At the previous Bargenoch sale in 1916 Bargenoch Bright Star made 380 guineas ( $£ 399$ ),
which was the record price up to that date. The extraordinary advance to 1,420 guineas indicates the growing influence and value of the milk record pedigree. All Ayrshire sales do not, of course, give equally great
results, still the milk-record sales hold the field. At results, still the milk-record sales hold the field. At
the Dunlop Place sale, held early in the month the highest price for a bull calf was 145 guineas, and the average for four heifer stirks was $£ 497 \mathrm{~s}$. Od. and for
1.5 bull stirks $£ 486 \mathrm{~s}$. 15 bull stirks $£ 486 \mathrm{~s}$.
At the present time Ayrshire breeders are endeavoring
to frame a scheme whereby the milk record will be taken into account when Ayrshires are being judged in the show-ring. and the adjustments necessary are not too easily made. It is understood that a system of the kind
prevails in the United States and Canada, and if it can be worked there, it can surely be worked here. with the subject, and already one meeting of that why some breeders are opposed to this system is because their herd mik records a profit to its owner. It is generally agreed that records a pront about 800 gallons in the normal latation period of
40 or 42 weeks are wholesome and to be commended 40 or 42 weeks are wholesome and to be commended.
When cows show four-figure records they are well above the normal or average, hence the very high prices
for the bull calves out of such cows. One thing is cerfor the bull calves out of such cows. One thing is cer-
tain, never again will men see in the showyard, the folly so long perpetrated in connection with Ayrshires, of
giving the highest honors to cows of no special merit otherwise, provided they had the tight vessel, carried
level and well along the belly, with the unfailing accom-
animent of such a vessel, viz., small corky-shaped teat is amazing, yet it is a fact, that in days past it wa onsidered a fault for an Ayrshire cow to give too much nilk, to show a vessel which indicated heavy milk
production. The chief trouble by which breeders of nilk-record Ayrshires trouble by which breeders uency with which their efforts at improvement are rustrated, though the appearance among their cows of rustrated, though hall, corky teats and tight, fleshy essels. In spite of all their efforts to eradicate these eatures it will re-appear. The mania for that type be neutralized all at once. In spite of alt the lesson taught by past experience there are still breeders, who if they do not defend the type, do all in their power to cog the wheels of progress. Such cannot prevail because utility and commercial value must in the en
triumph over mere "fancy," which is too often folly. Cotland Yet

CANADA'S YOUNG FARMERS AND FUTURE LEADERS.

## A Farm Boy's Hobby.

Editor "The Farmer's Advocate"
I have lived on a farm all my life except whitle I was oing to schoo. have been actively engaged in farm who is at home working on the farm with his fathe generally takes the place of a man from the time he i thirteen years old. He does just as much work as one it Every boy has his hobby, some horses, some cattle, hogs and sheep; mine is horses. I have had sole charre of our horse stable ever since 1 was fourteen. We farm one hundred acres, growing mostly grain and clover seed. We do not keep very many horses; one good
team of mares, a driving horse, and a horse towork the slings and hay fork. He also does to use with the driver in seeding time. We do all the other work, plowing, mow ing, raking, drawing in and cutting with the team. They work till a quarter to twelve and a quarter to six, ar well cared for, well driven, never abused and wel groomed. And they do as much, work as plenty o farmers get out of four or six working plugs not properly
cared for. They are watered six times a day with pail in summer and winter. In the hottest part o summer we remove the harness from the horses at mea hours as it can be done in less than five minutes and eplaced in the same time. In harvest, when we are drawing in, we have supper at five o'clock standard time ight as you are always getting more done, but in the winter time when the farm boy has mibre leisure maybe there will be two or three events in the same week
which he would like to attend. We will say he attends the first one, but when he goes to the next one some may complain about him going away so often. They do not realize that he has worked might and main til the difference between playing overtime a little while and working overtime all the while. The city boy can go every night, besides enjoying the advantage of horter distance. This is
Halton Co., Ont. S. A. D

## Ontario County Boys' Banquet.

The Whitevale Class in Agriculture concluded à most their friends on the evening of February 20
Several toasts were proposed by members of the class and responded to by men of recognized standing in Province and Coun. Professor Wade Toole Guelph, was the guest of the evening. Professor Toole is an Ontario County boy, whose home is only a couple of miles from where the banquet was held. The reception accorded him bore ample evidence that he was: "a an hour he spoke to an interested audience. The gist of his address was for all farmers to improve their crops and quality of live stock. Give and demand a square deal in all things, work for the good of the Dominion and not cater to the narrow confines of class ate but firm in all our demands.
ate but firm in the Dairy Industry, Professor Toole said that Canada's opportunity to capture the British market was never better than at the present. Denmark, he showed, had lost the British market not likely that Britain would renew her cónnections with Denmark so long as supply courd $\begin{aligned} & \text { oe } \\ & \text { procurd }\end{aligned}$ where and particual the Toast to "Our C proposed by E.V. Lawson, H. G. Michell and Geo Tool, members of the class gave a short review of the work taken up during the course. Tre course started on January 21, and the number on the days and special of those who had attended During the course the mornlectures, was twenty-one. ing class-room taking lectures on various agricultural subjects, were devoted to practical work in seed and root judging,
poultry killing and dressing demonstrations, miilk and
and visits to neighboring farms for
practice in stock judging. About twenty-five classes
of live stock had been used for this work course, the boys had taken a trip to Toronto and viste the Parliament Buildinges a large dairy plant, a packing plant and the Union Stock Yarge The 1919 course was consididered one of the most attendance has been considerably larger. The prizes offered for the best work throughout the course in stock judging were won as follows: Gordon McKay, first Fored Ireson, second, F. H. White, third. The prizes for the best work in the class-room were won thus was a tie between Gordon McKay and J. A. Torrance

At the conclusion of the class, the members organized themselves into the Whitevale Junior Farmers' 1 m . provement Association with officers as follows: PresiTreas, Gordon McKay; Committee, Geo. Tiol and

The objects of the Association are to continue the good work begun by the class and do any other work that will te

## AUTOMOBILES, FARM MOTORS

 AND FARM MACHINERY
## The Spring Overhaul

Weather conditions have been so unusual this winter that a larger percentage of cars than ever before, have
been operated during what we are accustomed to call been operatod during what we are accustomed to call were laid away in the fall. When you determine to take them out again there are a number of things that grease and waterr; that Sall unnecessary play pin the working parts has been removed, and that each bolt and nut is tight. Give an eye to the running gear and carefully spect the tires.
All this is said in a general way. We now wish to
perticular and give some good advice to those who It is a small four cylinder car with a detachable head. it is always good policy to regularly grind the valves, and to accomplish this you first drain the radiator and valve covers on the right side of the engine. Now elevate the valve springs and pull out the pins under the valve
seats. It is now possible to remove the valves. For seats. It is now possible to remove the valves. For
the purpose of grinding, it is necessary to use a good paste. A large number of brands are on the market dhat it is is alright. Having determined has assured you place some of it on the bevel face of the valve and then rotate the valve back and forth on the valve seat Keep lifting the valve and turning it back and forth
because the one thing that is absolutely because the one thing that is absolutely necessary in this
operation is a motion that will prevent any scratches operation is a motion that will prevent any scratches
or cuts around the entire circumference of thr and seat. When you are satisfied that the valves are perfectly ground wash them with kerosene and cleanse the valve seat with maximum care. Any experienced
motorist knows that disaster will attend the presence motorist knows that disaster will attend the presence of foreign matter in the cylinder or valve guides. Hence and that no particles of metal or grit get into the mechan ism of the motor. Should you find that the valves or the push rods are very badly worn do not hesitate to buy
new push rods as they are inexpensive and can be easily installed. It is also well to remove any valve springs give you even action, and when. These springs should results cannot be obtained from the motor
"Grind the valves and burn out the carbon,"-this is the most frequent order heard in an automobile
repair shop. We have already told you about the vow advise you that while gas is used to burn the carbon for most cylinders, it is possible for any motorist to
foccomplish the same excellent purpose with driver or similar sharp instrument. Drain
from the radiator, disconnect the wire at the top of the Thotor and the radiator connection at the cylinder head. head in place. You can now whift it off and with your piston heads any carbon that may have collecter. Be sure that any carbon you remove does not get into a
part of the motor where it can do harm. You may find part the circulation of the water in your car is faulty,
that even suppose it should be running through the radiator, the hose iconnections and the water jackets without diffculty, it is always good policy to discon-
nect the radiator inlet and outlet, and subsequently pour a lot of water through the radiator in order that any
foreign matter may be washed away and the tubes
thoroughly cleaned horoughly cleaned out. Also run a large quantity of
water through the jackets around the motor. Dust and dirt frequently yet into that will sooner or later cause disconcerting, results.
If you have been in a collision or If you have been in a collision or in any way accidentally.
jammed one of the radiator tubes use some solder to stop the leak, because even the smallest opening in
tube will allow a certain amor and, if you are at all foregetful you water to rul away
nater in time to stop inconvenience thi. badly broken or jammed
When a radiator has been badly damaged it is not ad.
visable to spend a great deal of time repairing it, because
a new one can be installed very easily and at a fai expense.
Tires give mileage in direct ratio to the amount o care put upon them. Before taking your machine out
this spring, go over each casing, and if there are any cuts, see that they are washed out with kerosene and the properly sealed up. It does not take a small bruise ver long to become a large one if sand and grit are allowed remain in it. With tires as well as everything else,
the old adage remains perfectly true prevention is worth a pound of cure
clean the spring leaves thy about squeaks and rattles well oiled. A cheap system is to and then have then your crank case. Some people bind the springs wit electric tape in order that the lubricant may be allowe to work in freedom from dust and dirt. The idea is a excellent one but not absorately necessary if the spring With a ras and some sweet ol
your car can be made to almost look as good as new small brush can be first utilized to clean out the pleats in the upholstery and the oil applied subsequently.
Rub the cushions until they are thoroughly dry, as Rub the cushions until they are thoroughly dry, as
otherwise some of the oil may remain and damage cloth-

## Batteries

2. What chemicals do you use for the purpose they use to make it test 1300 , the quantity they use and the way -1. If you are inexperienced do not attemp to rebuild a storage battery. This work can only be 2. Chemicals do not bring a battery up to 1300 Chemicals should be put in at 1050 to 1100 and the battery charged from an outside source until it reaches 1300 deal of care. Do not tamper with them but rather place their maintenance and up-keep in the hands of some experienced workmani.

## Heat Values of Wood

Montreal ascussion by the Forest Products Laboratories the below amounts of wood have equal heating that to one ton of anthracite: 1.00 cord of birch, 1.15 cord of tamarack, 1.20 cord of Douglas fir 1.50 cord of jack-
pine, 1.55 cord of poplar, 1.60 cord of hemlock, and ords of cedar
that the calorific value of the coal is 13.000 B . the grade of coal received in Canada last winter was
much less, possibly as low as $10,000 \mathrm{~B}$. $t$. u., which in of wood by 23 per decrease the above-stated quantities

## Comutator Blackens

generator far equipes at the wruth three-brush generator, this and
at all. I have had evew fifty miles will not generate
better. What is cause of thises. put in and it is no


Ans.-It is difficult to anwer this question because where copper ones would be more suitable bat bushes also possible that the brushes, though the proper kind please be good enough to you desire further information

## THE DAIRY

Waste of feed very often results from the herdsman If an enquiry comes for stock or information about
your method of feeding, it is courtesy to answer it, and

Is the price of milk commensurate with feed costs?
The only way to know whether you are keeping the cows or they are keeping you, is to have some idea of what it
costs in the way of feed and labor to produce a hundred
pounds of milk [
O Raphella Johanna Aaggie 3rd, a seven-year-old cow

## production under official test by biving $30,641.2$ milk

 in an alfalfa field, and one pound of grain for five and ration. While on the test this cow gained 300 pounds.She weighs over 1,600 lbs Have you told your neighbors how you fed and
managed that cow which mado sult
$\qquad$ the world if we do not help our neighbor use are we in possible? Too many who have made a success way
themselves profits by them. At up that no one bu meeting would be a good place for your to diarmers' clab of your secrets of feeding and herd management for the
benefit of your neighbors.

The Brant District Holstein-Friesian Club recently fifty their annual meeting in Brantford, when abou discussion of questions of vital interest freely into th President E. C. Chambers gave a resume the Club accomplisted curing the past year, and drew attention to the fact that 90 head of cattle had been sold antio A resolution was passed fixing the rorhood of $\$ 16,000$ second Wednesday in March, and the third Weednesthe fall. The election year. This comes into effect nex Brantford, the Presidency; W. Le T. W. Craig, of elected first Vice-President; C. Lee, of Kelvin, second Secretary-Treasurer Sager, of St. George, was re-elected

Durham County Holstein Club held their second annual meeting and banquet at Orono. Both the
business meeting and the banquet were well attended Susiness meeting and the banquet were well attended,
S. Jose, President of the Club, reviewed the history-making events of the past year, and predicted was decideture for the breeders of Holstein cattle, It were urged to prepare for a sale in 1920 . During the afternoon the herd of A. J. Tamblyn was inspected The speakers at the banquet were G. A. Williams, the Rev. Rae, C. G. Armstrong; Geo. Stevens, Reev, of Darlington Township; F. W. Bowen, Reeve of Clarke Township; A. Henry, Secretary of theeve of Clarke Society; and W. L. Smith. A very interesting evening was spent. Officers elected were: President, S ., Jose, Newcastle; Vice-Pres., A. J. Tamblyn, Orono; Sec., Treas., A. H. Gibson, Newcastle.

Milk having an average of 3.25 per cent. fat, when separated with four hand machines at the O.A.C.
Guelph, produced cream containing an ane per" cent. fat. Milk with 3.93 per cent. fat senarated under similar conditions produced cream testing an average of 44.96 per cent. Fat. These results indicate marked effect on the percentage of farated has quit Increasing the speed of three disc type cream separator ix revolutions of the handle per minute above normat, aused an increase in the percentage of fat in the cream of about one-half of one per cent.; while a decrease of one-half of one per cent. fat in the crease of abou oed ", re, hollow-bowl separator, the very opposite of the he lower the percentage of fat in the cream; and the
ower the speed the higher was the test of
at.
Flat cheese made in May and June at the Dair about one week old saved from 15 paraffined whe when one month old, to 3.1 per cent. when three monthe old, as compared with similar cheese not paraffined
Both lots were held in cold storage at about 40 degreas ordinary cur lots held for one to three months in al ordinary curing room lost in weight 2.4 per cent. in one
month when coated with wax coated. Cheese, paraffined and weighing sixty to seventy pounds each, lost 1.3 per cent in weight during on month in cold storage, and 2 per cent. in three months Similar cheese not paraffined lost 1.4 and 2.8 per cent. in
one and three months. In the curing room the loses one and three months. In the curing room the loses
on paraffined lots were 2.2 and 3.6 per cent., respectively, on paraffined lots were 2.2 and 3.6 per cent., respectively,
for one and three months: the lots not paraffined under similar conditions, lost 3.1 and 5.3 per cent. espectively, during one and three months. Simiar
esults were obtained with September cheese and indicate that there is a very marked saving of shrinkage

## The chief objection to the manufacture of buttermilk

 and cottage cheese is the labor involved. Recent testsmade at the dairy of the O . A. College indicate that the curd can be separated by means of centrifugal
lorce in a separator bowl. While we have not applied t in a commercial way, our work indicates that the
separation of curd by centrifugal force from sour milk is quite feasible. There are now special machines for this purpose built on the principle of a laundry dryer.
$W_{e}$ obtained from nine to as high as twenty-nine pounds of cheese from 100 pounds of sour milk, averaging 15.5 pounds to the hundred. The low yield was too dry,
and the high yield too moist. From twelve to fifteen and the high yield too moist. From twelve to fifteen
pounds of excellent food material can be obtained rom ten gallons of buttermilk or sour skim-milk. This will spread on bread like butter, and may easily replace he more expensive butter for at least one meal in the
lay. If the manufacturer received fifteen cents per lay. If the manufacturer received fifteen cents per
pound, which would pay well, the return per hundred
pounds sour milk would be from $\$ 1.80$ to $\$ 2.25$. If the onsumer paid twenty to twenty-five cents per pound ood. Cheese of this class was held in cold storage
it a temperature of 40 degrees F, packed in $14-\mathrm{b}$.

Founded 1866
thy locked up that no one but
them. At your farmers' club od place for you to divulge clume Holstein-Friesian Club recently
eting in Brantford, when about
esent and entered freely into the
sof vital interest to the Club.
bers gave a resume of the work
ee past year, and drew attention
de of cattle had been sold at the
ithe neighborhood of $\$ 16,000$.
d fixing the dates of sale as the
arch, and the third Weennesday
ar. This cones into effect next
officers gave T. W. Craig, of
ency; W. Lemon, Lyden, was
ent; C. Lee, of Kelvin, second
ger, of St. George, was re-elected Iolstein Club held their second he banquet were well attended of the past year, and predicted
breeders of this year, but the catte. It sale in 1920. During the
Tamblyn was inspected Were G. A. Williamsected.
M. Holtby, Mr. De the ; Geo. Stevens, Reeve
 ere: President, S. Jose, stle.
age of 3.25 per cent. fat, when
and machines at the OAC containing an average of 35.45
th 3.93 per cent. fat separated produced cream testing an in the milk separated has quite
percentage of fat in the cream, hree disc type cream separators, ndle per minute above normal, per cent.; while a decrease of
pe caused a decrease fat in the creame of about , the very opposite of the as in the cream; and the
$\qquad$ egrees F., packed in 14-lb.

March 6, 1919
The Situation in Denmark. Some of the latest information to be made public
隹 was received by J. A. Ruddick, Dairy Commissioner in the following letter from Harold Faber, Agricultural "With regard to the outlook in Denmark and our
United Kingdom, which you ask about, it is export
broady a follows:
athe number o
"The number of cattle has been reduced from $21 / 2$ million to 2 million; the number of cows and heifers
with one calf, from $1,310,000$ to $1,024,000$, but on account with one absence of oil-cake and corn the milk yield has of the absence onsiderabe extent. From this it follows that the production of butter has been reduced. At the
same time the production of margarine in Denmark same time the production of margarine in Denmark has been completely stopped for want of raw materials,
That means that the consumption of margarine, $1,000,000$ cwts. annually, has had to be replaced by butter
Furthermore, Sweden and Norway, that used to expor butter to England, have been buyers of Danish butter From all this you will see that the export of butter to
England has necessarily been very much curtailed At the same time considerable quantities have been offered regularly to the British Government, but they hand. long time had an insufficient quantity for the home supply, the stock of pigs having been reduced from
$2,500,000$ to 500,000 . Consequently, I am sorry to say that Denmark will Unt, as you supposed, be in a position to supply the more because the demand for milk to the suffering nations in Europe is expected to cause a large export of milk as fresh and dried milk to these countries, and,
therefore, leave still less for butter-making and pig raising. very little more than required for home consumption,
say 17,000 casks weekly, of which 16,000 are consumed at home.'
A Review of the Creamery Industry. in the creamery industry were noted in a recent address is quoted in part as follows: seems to be undergoing a series of evolutions and many of us are beginning to wonder just where we are at and of he have got to go back to school and learn the science
of butter making all over again. There have been some rather startling announcements made of late in regard co new methods advocated for the improvement of
creat and whilst $I$ am in favor of taking advantage of every aid which science may evolve for the
improvement of the finished article, at the same time we must not overlook the fact that the quality of the raw material has a preponcerating effect on the quality of
the finished article over and above any mere deviation The one big weakness which affects dairymen in
general is a tendency to apply local or surface remedies for evils deep seated and of constitutional character. to have a fine quality of butter we must first produce wholesome foods and use every precaution to guard The development of lactic acid in the cream by the in order to produce that distinctive butter aroma so to-day apparently demands a mild, almost tasteless aroma always associated with good butter in the past.
I have frequently wondered if we are always safe in being guided by the opinions of the trade. Do these people
fairly reflect the desires of the consuming public, or to the qualities which reflet the opinions of the dealers as percentage of losses. There may be a vast difference and those which the dealers find profitable in handling. these two requ the milk himself at the creamery seded the cream from ization and the use of a pure culture of lactic acid
organisms produce a butter which not only had that ties as well, which made it a safe commodity for the practically extinct and as the hutter malker creamery is furnished with a constantly changing quality of raw gradually changed to meet in the first place the demands will be reasonably satisfactory to the public. Our effort to do this has resulted in the production of a
butter of entirely different required a few years ago.
"We are now making a butter which may be more easily imitated by the 'Oleo' manufacturers and for
that reason is to be regretted. It is the tendency of human nature to travel along the lines of least resistance our methods of manufacture rather butter by changing cream and by being prepared to pay a premium for this
cream when it is offered

Putter its keeping qualities. If the cream has a high butter its keeping qualities. If the cream has a high
acidity, first warm up to between 70 and 80 degrees $F$ and then add sufficient neutrafizer to reduce the acid ure of 170 degrees F. for 5 to 10 minutes and cool to churning temperature. The longer the period between especially in the texture and grain. At least three hours hould elapse before churning. Wash the butter with pure water in which germ life has been rendered inactive at a temperature 2 to 5 degrees lower than churning. pass the butter through the rollers a few times and allow all free moisture to escape. Then make a test for moisture, and salt by the trench system adding at the tent up to the point desired. Work the butter from 15 to 25 minutes to ensure a perfectly uniform color, thorough dissolution of the salt and a perfect incorpora It is absolutely necessary for every creamery texture lied with acid and moisture tests and in be sup a fat test of each vat must be made each day if we wish quality of butter. To simply say you have uniform time cannot be accepted. You must make up your mind hat you have got to take time to perform these tests or else get out of the business and I may tell you right good enough and that performing these necessary tests is too much trouble had better quit while the quitting
sized sash are most common and are made ly tlupty doubling the length of the frame and putting
inch piece down the centre to support the sasti. Vegètable growers who annually use many hothed conserve manure by digging a pit in the fall any hettion the frame on this when the beds are made. These nes also, and cover the ground in the hothed yard. This is to prevent the ground from becoming frosen teth when the season for making the hotbed comses thiy
manure can be replaced by fresh manure of which ten or twelve inches will then be required.
Fresh horse manure should be secured that has heas stored a few days so that it will ferment rabive If the manure is rather dry, hot water will help to itart fermentation. Ordinarily, when first piled the manuet
will begin to steam in a day or two. When it has atarted to ferment well, it should be turned over again, turning the pile inside out so to speak. After the manure then been allowed to stand two or three daye er mena the entire mass is hot, it is ready to prepare for the finner As the manure is placed on the site of the hotlied,
should be laid down in layers of five or six incles should be laid down in layers of five or six inches is the edges. The manure will settle five or six linclive so that allowance should be made for this whem therlin it for the frame. After the manure is all piled andtramped to a depth of from eighteen to trenty-for inches, depending upon the length of time it is expectel to provide heat, the rame may be set on top of the pile
and from four to six inches of soil placed on the mante If flats are to be used for growing plants, two inchese soil will be all that is necessary to absorb the steam and


A Well-made Hot Fed in Operation.

## HORTICULTURE.

## The Hotbed

Although the commercial truck or vegetable grower early forcing of plants, the hotbed has, nevertheless,
a very common use with the small home gardener, and even the vegetable specialist who may have reason to employ hotbeds quite extensively in addition to his
available greenhouse space. Where the hotbed is used seeds can be sown outcoors before the snow is off the ground, and the plants, therefore, have from four to This early start, means early marketing for the vegegarden. It is advisable to locate the hotbed in as warm a position as possible, preferably close to some building, protected from wind, and water should be within easy號 they should be so arranged that it will be easy to handle the them and do all the work that is necessary around handling the plants. Ten feet between each row of beds is probably not too far. Most hotbeds are heated some are heated by a steam pipe extensions from nearby greenhouses. The standard size of hotbed sash is
three by six feet, and it is a good plan, unless for some special reason, to use sash of this size. However, a storm window is frequently used and in such a case
the frame should be made to fit. The frame is confoot in length. This is to provide sufficient slope to which the rays of the sun and to run off rain or moisture which may collect on the glass. The high end of a
standard hotbed should be sixteen inches in height, and
the lower end twelve inches. Hotbeds of double-
to keep the air pure. Manure should be piled around the frame on all sides right up to the top, because this
keeps the sides as well as the bottom supplied with heat, The top sash shoald be put on and the bed allowed to he manure, and so that the temperature may reach a safe height for the sowing of the seed. If the mach is lifted for a little while each day, the gases may escape from the interior of the frame, and as soon as the temperaFahrenheit, which will be about the fourth day, the soil should be raked level, sticks, stones and other refuse removed, and planting begun.
order to successfully operate a hotbed. This is evident if only because the hotbed is used during severe wint weather. Watering and ventilating must be piven bright days. Watering should ber being done ony on preferably with a can that throws a fine spray, and thes when the plants really require it
Hotbeds are ventilated by supporting one end of the sash and blocking it up. The side facing the the should never be opened. As the season advances and there is less danger of chilling the plants, the sash may be partly drawn off, while in the warmer weather they may be taken off entirely during the day. A thorough circulation of air is essential, but too much cold air
will check the plants. Ventilation is always in order will check the plants. Ventilation is always in order avoid scalding the tender plants.
As soon as the seed is sown in the hotbed it will be necessary to watch for weeds, which will appear belone the crops that have been sown. If the plants begin
to crowd they can be thinned out some, and the soil can be stirred to advantage as the plants are growing The bed can be made to give a good supply of lettuce, radish, beets and carrots, while young tomato, cabbate, celery, onion, cauliflower and many other plants can be
started in the hotbed. At the latter end of the seasose

## POULTRY.

## Tuberculosis in Poultry

 Numerous enquires have been réceived of late regarding tuberculosis in poultry, and this article iswritten for the purpose of giving our readers as full written Tor the purpose of giving our readers as full
information as we can with regard to the disease. Pracinformation as we can with regard to the disease. Prac-
tically everything said here has been secured from
Bulletin tically everrthing said here has been secured from
Bulletin 255 , of the Ontario Department of Agriculture. The illustrations also are, reproductions from originals


Fig. 1-Body of a Hen Showing Advanced Stages of Tuberculosis.
used in the above-mentioned Bultetin. It appears that tuberculosis of poultry is very widely spread over
the Province of Ontario and it is quite evident from the ene Proviries which of reach this it it quite evident from the a great many flocks where the owner has is present in ized it. The first effect of tuberculosis is yot recogniegg production, and its final effect may be to cill a dow many of the bircds, or otherwise so decrease their useful ness as to make the whole flock a burden rather than a The disease is caused
visible only under miscroscopes a very small organism the organism gains entrance to the tissue of the body feeds on whatever juices may be surrounding it and

multiplies with variable rapidity. During its develop ment it produces a toxin or poison, which causes a local affected tissue cells. A tubercle is nothing more nor less than a mass of such affected cells, but it is very important in that bacteria pass from it through the blood or lymph stream to other parts of the body and produce but vary somewhat in texture. In fowl they are usually cheesy or gritty in texture and vary in size from less monest size id to as large as an egg, although the commonly found in the liver, spleen, intestines, and mesentry, but other parts of the body, such as the lungs, ones, ovaries, kidneys, etc., are frequently affected Symptoms of Tuberculosis.
In live fowl it is difficult to detect tuberculosis in its early stages. Later on, however, one or more of the following sysmptoms are likely to develop: 1. First well by Figure 1 which is that of a bird in the advanced stage of avian tuberculosis. The owner of this particular fowl who sent it to the Ontario Agricultural College for examination stated that it had continued to eat heartily, but had not been laying for some time. The crop was tinue to eventually they may become very thin the freast but legs losing all their flesh and, if the bird is lifted, it will be found to be very light in weight. It is worth noting however, that even in the advanced stages some birds may remain fat, but if so they will be very mopy and inactive. 2. eyeness about the unfeathered parts of the head, the of the disease. These parts will become dull and though the eyes usually remain bright and clear they are usually lacking in life and fire and are often closed The feathers become dry and lack lustre. 3. Listléssness is indicated by gradual loss of vigor and activity, when not feeding. tuberculosis develop in the bones and joints 5 when laying is frequently stopped altogether
Practically the only sure way of determining the
presence of tuberculosis in fowl is to conduct presence of tuberculosis in fowl is to conduct a post-
mortem examination on birds which have died and are suspected of having had the disease. If, during the liver, spleen or other parts of the bird, the indications of the disease are, of course, clear enough. It is however wise and advisable to have the examination made by competent persons, because other diseases cause tuber culosis. We would suggest with those of avian tuberare lost from the flock from unknown causes and where should be sent for examination those enumerated above, Laboratory, at the Ontario Agricultural College Gugical or to the nearest poultry expert of a Provincial, or the Dominion Department of Agriculture. Any of these report free of any charge to the owner of the flock one who knows the separate organs of the fowl may conduct a post-mortem examination themselves, but to be absolutely sure it is necessary, of course, to have a Figure 2 shows thenation made
hen shown in Figure 1. The spleen ald intestines of the are the tubercles and a very large one is ko swellings the end of the intestines, just at the bottom of the picture The droppings from this bird were very ruch infested with the bacteria which cause the disease; so that such Figure 3 ould be a very dangerous spreader of the disease culosis. The smaller one shows the early stages of the disease, only a few tubercles being present and the liver two ounces. In the case of the larger one, the diseas was very much advanced, the weight of the liver having most commonly affected organ, The liver is really the scattered over the surface and, and the tubercles are the whole mass of the tissue. A tubercular livhout usually softer and more easily forn than a healthy one, While, as mentioned previously, an enlargement frequent being due to an attempt on the part of the organ to The spleen is the little purplish-red organ situated the liver is tubercular. Like the latter organ the spleen frequently becomes irregular in shape and enlarged
Next to commonly affected organ and tubercles will be found commonly affected organ and tubercles will be found
within or on the intestinal walls, in the form of hard lumps about the size of a pea or larger. Their presence stoppage of the bowels. When this organ is partial the disease is rapidly spread through the flock by means of infested droppings. Infection of the lungs is not so are present the action of the lungs is interfere tubercles the lung tissues gradually destroyed. In small chicks tubercles of much the same nature are produced by the disease known as Aspergillosis, caused by the growth
of a fungus occasionally present on the fed on Tuberculosis is also likely to the feed. in the fere of tubercles in the bones or in the ovaries. and decay frequently develop, while in the latter case the eggs may be infected with tubercle bacteria and chicks
hatched from such eggs are likely to develop the disease
at an early date.
addition of a bird suffering from it and therefore, upon every pouttry raiser to watch carent, for outward symptoms. Once it has been definitily are described as follows in Bulletin are in order. The

Control and
Care should be taken in buying new stock th birds are obtained only from flocks known to be that in a flock it is difficult to eradicatease gets establishee drastic measures. The quickest and most the mosest


Fig. 3-Livers from Hens Suffering from Tuberculosis
method is to kill off all birds that have run with tho proven to have the disease and to disinfect the entire premises as thoroughly as possible., New stock should placed on the runs which had been used by the disease have been a year or more. The houses, providing they The first thing to disinfected, may of course, be used. in sanitary condition is to scrape the roosts ceilings, floors and nest boxes of the houses thormils clean with a hoe or other convenient implement $A_{0}^{\circ}$ cumulated manure may be mixed with lime, sprent on the land and plowed under. Loose litter, pieces of boards or other valueless material should be completely of the houses may be washed down with some inside disinfectant such as carbolic acid, one part in good of water, or some good coal tar disinfectant. Any of these may be put on with a spray pump. In place of
these, quicklime in the form of whitewash may be used,
 dicate except by the
at have run with those to disinfect the entiny
ole. New stock shonit ole. New stock should
ves, but should not-b
en used by the diseased houses, p
may of co
the pou housests, wills with liment. Alo ed wit
ne the entire inside
onices of
mith some
down with some good
d, one part in twenty
disinfectant. Any of y pump. In place of


## 3

## THE FARMER'S ADVOCATE.

## Percheron Breeders Meet

 Horse two-days', Breedersention of the Canadian Percheron February 12 and 13 , and several proposed changes in the by-laws were considered.for prizes at generous appropriation has been set aside
Futurity Futurity will be very mur Western shows, while the Edmonton, Regina, Saskatoon and Brandon Summer Fairs there will be a first prize of twelve dollars and a second prize of eight dollars given for the best stallion, Canadian bred; best mare, Canadian bred; bestgrade The two later gelding, and best grade Percheron mare. registered Percheron two years and up, and sired by a Western fairs there and a second prize of five dollars given for the best 1919 foal, sired by a registered Percheron horse, and the best Percheron mare or gelding sired by a registered Percheron
horse. A sum of $\$ 250$ to be awarded for A very enthusiastic discussion arose named later. Futurity competition. It was yoted to have one com petition for the entire Dominion. To overcóme the handicap which may be experienced by breeders unacitars forty dollowing, $t$ was decided to grant the exhibthe Futurity, up to four head every animal shown in Futurity is not yet announced, but the Association decided that there shall be fifteen prizes for stallion colts and fifteen prizes for filly colts. Entries will be accepted up to May 1, but notification of the number
of colts which each exhibitor proposes to enter must be sent to ith each exhibitor proposes to enter must nounced fifteen entries already in his hands.
A resolution was carried at the Convention calling
upon the Alberta upon the Alberta Government to adopt a more lenient attitude towards the Percheron horse, and show a greater appreciation of his value. Another resolution was the Deed to the Caal Govermment, particularly possible be taken to secure for the breeders of dratt horses in Canada a foreign trade, and to encourage the breeding and production of the heavy draft horse in Canada. The Association pledged itself to render every assistance in the way of co-operationto any project
looking to the advancement and development of our foreign trade in draft horses, realizing that the time is rapidly approaching when the price to be received for our best draft horses in Canada will be governed by the foreign demand.
Saskatchewan Government asking addressed to the Saskatchewan Government asking that typical Per-
cherons be placed on institutional farms, under the

## Soldier Sentiments

Editor "The Farmer's Advocate"
Since the signing of the armistice the men of the
Canadian corps in France, Belgium and Germany have been following with a natural interest everythang in the home papers relating to demobilization, reconstruction and after-the-war plans. Practically all these problems
have been considered by the Government, the G. W. V. A., or political reformers, but it has occurred to us that it might be of some interest to know the opinion of the overseas soldiers themselves, what they are
thinking, and what they are talking about. We, of thinking, and what they are talking about. We, of
course, can speak for only one unit, but every unit is fairly representative of the whole corps, with the same problems, the same point of view toward them, and the same freedom from party or friction.
We have read one suggestion that the overseas
troops be absorbed as post-war immigration, demobilization to cover a proportionate lengigro of time- as though the Canadians here were devoid of initiative,
vocational training, knowledge of Canadian conditions or with no homes to no to No wonder that we hear some of the boys s.seaking of emigrating to Australia
after "emigrating" home-a country which has kept after "emigrating" home-a country which has kept itself vastly more free than Canada has during the , war,
and whose Premier has not been afraid to "buck" the and whose Premier has not been arraid to "buck" the
Imperial authorities when occasion demanded. -We have also read a dirge from Sir Edmund Walker about keeping us here "on this distressed continent",
for some time to come. If the Venerable Knight is too old, or physically unfit to come and do his share of the good samaritan work, we would suggest that he raise and maintain a volunteer force for that purpose.
It must be admitted that the average Canadian It must be admitted that the average Canalian grates on his nature even more now than in "rookie" days, when he had war to look forward to, and during the war no force of its size has had a finer discipline than the Canadian corps, endured because conditions fighting goes, discipline is made up of the trivialitie which loomed so large in the peace-time army. Although every other allied army has done away with brass buttons and burnished steel parts, such things take up the
time of the Canadian soldiers here. The longer demobilization is delayed, the poorer citizens the mee
will make. Men who have nothing to do-and there is nothing we can do in a constructive or productive sense except such ented, and living in the powder-charged ome may hope. Probably the army educational scheme has been considerably advertisect at of and men, blout two doren
brigade of nearly a thouswork with genuine interest.
only are taking up the worl

Textbooks are scarce and inadequate for one thin When the scheme started the students were allow d to miss the morning harness-cleaning parade-harness The afternoons were once a week and cleaned daily. very soon the lectures were transferred everyone and own time. Sergeant-Majors considered the whole thing mere camouflage to get out of parades, and perhaps it was. But this is illustrative of the educational Work that is being done.
From the discussion among the men we believe they desire absolute equality in demobilization of both be equal according to disabilities and abolition of military titles for field officers who have resigned thei commissions. We were equals as Canadian citizens before we enlisted, and we believe that all ranks have done their duty equally well, and that an officer is no a sapper or a gunner. Unless Canada is careful we will before long have families with an established "officer tradition." Cap-tipping would be the next development. We have even heard that it has already been suggested that school children touch their caps to
soldiers. And we laughit at the Germans here daily for the same thing

Among various
structed, reformed and made into ideally efficient citizens generally, there were a couple in Canadian magazine which made the troops swear a great deal school teachers from soldiersint that we choose our colonels and generals as school inspectors, to encourage efficiency, patriotism and discipline. And in another leading article, General Critchley outlines a comprehensive scheme of compulsory schools for technical which some people imagine citizens should have flavor who have been fighting the result of this sort of thing over here can easily see through such camouflaged Prussianism. About forty years of such schemes, coupled with the idea that Canadians when properly and Canada will be ready for just such a drubbingGermany has got

The soldieps over here are "fed up to the ears" with soldiering, and with Europe-and the sooner we are spectators instead of participators in the mess here the better for all.

Artilleryman.

## More Thinking Wanted.

## Editor "The Farmer's Advocate"

It seems obvious to me that more thinking is needed, on the average farm and on every farm, in the dominion. is in excellent order it mighnt be improved. I a farm is in excellent order it might yiedd double, with a dimerent
crop than the one usually grown. Down in Kansas, a group of farmers got together and hired a professor to tell them how to farm, to the best advantage. The scheme worked perfectly, They found some land would not produce anything profitably except sweet clover and as a result the professor urged the growing of it be a little of everything; a scientist, a laborer, a prophet a mechanic, a naturalist, a botanist, and a pood busines man with sharpness to resist all kinds of sharks, and wolves in sheeps clothing. The average farmer cannot worl To be sure the frer or the other must be neglected. extent that the manfuacturer does. The to the same ers, are sending, trade commissioners to every country in the world to find sale for Canadian goods. What about the farmersi
Prince $\qquad$ A. G. v.

The Spaulding Jersey Sale
On February 20, T. J. Spaulding disposed of his Jerseyrecr by auction at his farm near Aurora. The the best blood of the breed has in past years been used at the head of the herd. Following is a list of the ani mals selling for $\$ 100$ or over, together with the names

Jolly Meadow Grass, Geo. Forrester, Gormley........ $\$ 100$ | Donalda's lst Thos. Read, Victoria Square.......... | 135 |
| :--- | :--- | :--- | Pudge 11th, Thos. Read.

Donora, Fred. Bagg, Unionville
Donalda's 3rd, Robt. Rank, Auror
Aurora Maid's' 2nd, C. S. Gleadhill, Maple
Lily of Aurora, Wm. Deevith New
Aurora Maid 3rd, John Stickwood, Oueensvil
Fairy Maid, D. Love, Highfield
Pudgette, J. Oliver, Newmarket
Lilian of Glen Farm, C. Line, Sherwoo
Maid's Golden, C. Line...............
Maid Elsie, S. A. Grose, Keswick.
Bacon Trade With Britain to be Resumed.
The embargo on Canadian bacon is apparently being in a satid the prospects Sir Thomas White, said that the British Food Ministry will purchase a large amount of tonnage immediately
and the British market will be free for commercial and the British market will be free for commercial
purchase and importation after March 1, 1, and for com-
mercial sale and distribution after April 1.

Toronto (Union Stock Yards) Montreal (Pt. St. Charles)<br>Montreal (East End)<br>Cinnipeg<br>Edmonton

## Toronto (Union Stock Yards) Montreal (Pt. St. Charles) Montreal (East End) <br> Montreal (

Calgary....

## Market Comment

## Tofonto (Union Stock Yarde)

An active demand prevailed througt an advance of about 50 cents per hundre was made on the Wednestay mane
Trading clcsed on Thursday at the higher
level. There was a strong inquiry for neighborhood of fifteen hindred head are purchased for export. Local abattoir
are now buying more freely and be sowntly in a more freely and hope to
of the receipts of the receipts. Only a few loads of really well-finished cattle were offered for sale, most of the stock being of medium
to common grading. No really to common grading. No really good heavy cattle were on hand, but a few
small lots of fair quality were offered and these sold from $\$ 15.50$ to $\$ 16$ per hundred. Steers between the weights of ten hundred $\$ 15.50$ per hundred pounds sold up to 315.50 per hundred, twenty head of eleven hundred and fifty pounds bringing
that price. Other good sales of stock vood weights were made from sit 50 15.25. Of the butcher steers and heifers of handy-weights, one baby beef of
eight hundred pounds sold at $\$ 18.50$ per hundred, while a choice lot of twenty ten pounds sold at $\$ 15.25$ per hundred Eighteen steers averaging nine hundred and eighty pounds were weighed up at
$\$ 14.50$, fifteen head averaging nine hundred and sixty pounds at $\$ 13.25$, while prices ranging from s13 to were made at prices ranging from $\$ 13$ to $\$ 13.75$. The best $\$ 13.50$ per hundred. Cows and bulls continued in good demand and as high as $\$ 12$ per hundred was paid for a feu odd chice cows, while a few bulls oi
quality were bought at prices from $\$ 11$ St.25 per hundred. Canners and cutters advanced in price in sympath
with other grades, and moved from $\$ 5.75$ to $\$ 6.50$ per hundred. The local demand and tockers and feeders is rather limited, ent going to the shambles; farmers now thestrate before buying stock cattle at the prices asked. The calf market gained and an advance of $\$ 1$ per hundred was noted on choice veal. A few calves sold good veal moved from $\$ 16$ to $\$ 17.50$ per hundred. Medium quality calves sold from $\$ 13$ to
from $\$ 9$ to $\$ 12$.
The lamb and sheep market also gained strength. A few lots of choice lambs sold
from $\$ 17$ to $\$ 17.25$ per hundred, while a ew choice simp were weighed up at $\$ 1$
The hest he previous week, and fed and watered although $\$ 17.25$ to $\$ 17.40$ was bein, paid for f.o.b. hogs, which is really equal to $\$ 18.25$ to $\$ 18.40$ fed and watered. it is expected that our bacon will be and the local severseas very shortly position to handle all the hogs be in a Of the disposition from the Yards for packing houses purchased 2.2 2 calves

Receipts and Market Tops CATtLE


 CALVES
Receipts Top Price Good Calves

| Week <br> Ending <br> Feb. 27 $\qquad$ <br> 694. <br> 367. <br> 75. | $\begin{array}{r} \text { Same } \\ \text { Week } \\ 1918 \\ . \quad 593 . \\ . \quad 327 . \\ . . \\ \hline . \\ \hline \end{array}$ |  | Week Feb. 27 $\$ 19.00$ 14.50 14.50 12.00 | Same Week 1918 \$17.00 16.50 10.50 | Week <br> Ending <br> Feb. 20 <br> 17.50 <br> 15.50 <br> 15.50 <br> $1 . .15 .75$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 109....... | 136 | 25. | 11.00 | 10.00 | 11.00 |

Week $\begin{gathered}\text { Receipts } \\ \text { Same }\end{gathered}$ Week Week Price Good Lambs



3,507 butcher cattle, 453 hogs and 803 calves, 458 butcher cattle, 245 botch 12 394 lambs. Canadian shipments made up of 14 calves, 119 stockers, 12 feeders and 65 hogs. Shipments Calted States points consisted of 2.056 butcher catves. 2.056
it The total receipts from January cattle 4,084 calves, 53,404 hors 20 in 20,620 sheep; compared with 32,200 catle, $8,66 \mathrm{calves}$, 5,609 hogs
8,011' sheep, received during the
responding period of Montreal.
The amount of stock at present bein of filling only a small part of the needs of the city of Montreal. During the week's market trading was brisk and prices
of some grades, especially of medium of cows, seemed firmer than during the previous week. There were two smal ings. of these, one lot averaged twelve hundred pounts and sold for $\$ 14.50$ per up of nin
eight hu eight hun
sold for $\$ 1$

from the Yards for the week ending
February February and local butchers purchased 477 calves 132 canners and cutters, 80 bulls, 109 butcher cattle, 1,382 hogs and 109 lambs. Canadian shipments were madeu, United States points during the week. The total receipts from January 1 , 2,136 calves, 8,967 hogs and 4,597 shep: compared with 4,809 cattle, 1,777 calves 8,900 hogs and 4,827 sheep, , ocevers.
during the corresponding period 1918 . EAST END-Of the disposition from 20, Canadian packing houses and local butchers purchased 204 calves, 669 butcher cattle, 603 hogs and 116 lambs. Canadian shipments were made up of points. Sonsisted of 211 butcher cattle and 103 lambs.
The total receipts from January ${ }^{1} \frac{1}{2}$
to February 20 inclusive were: 7,263 to February 20, inclusive were: 7,263
cat tle, 1,327 calves, 5,051 hogs and 4,940 sheep; compared with , 41 -cattle 1,eceived calves, 6,466 hogs and 4,463
received during the corresponding period

Markets continued on pare 425

Markets hent of Aericultuio Uive


| op Price Good Lambs |  |
| :---: | :---: |
| ng Week | Ending |
| 27.1918 | Feb. 20 |
| 75 <br> 00 <br> 17 <br> $\$ 19.00$ <br> 0 |  |
|  |  |
| $00 \ldots \ldots . .17 .50 \ldots \ldots . .14 .50$ |  |
|  |  |
| $00 \ldots \ldots \ldots$ |  |
|  |  |
| TREAL Charles) Price Range Bulk Sales |  |
|  |  |
|  | Top |
|  | Price |
| 4.50 | \$14.50 |
| $\begin{aligned} & .75-12.75 \ldots \ldots \ldots .12 .75 \\ & .00-10.75 \ldots \ldots .10 .75 \end{aligned}$ |  |
|  |  |
|  |  |
| $\begin{aligned} & .00-12.75 \ldots \ldots \ldots .12 .75 \\ & .50-10.00 \ldots \ldots . .10 .00 \\ & .85-8.50 \ldots \ldots .8 .50 \end{aligned}$ |  |
|  |  |
|  |  |
| $\begin{array}{rr} .00-10.50 \ldots . . . . . & 10.50 \\ .75-8.50 \ldots . . . & 9.00 \end{array}$ |  |
|  |  |
| $\begin{array}{rr} 25-10.50 \ldots \ldots . . & 12.75 \\ .75-\quad 9.00 \ldots \ldots . . & 9.00^{-} \end{array}$ |  |
|  |  |
| .00-6.25....... 6.25 |  |
| .00-11.00 ..... 11.00 |  |
| .50-14.50 $\ldots \ldots . .14 .50$ |  |
|  |  |
|  |  |
|  |  |
|  |  |
| 75-18.00 $\ldots \ldots . .18 .00$ |  |
| $\begin{array}{ll} 75-16.00 & 16.00 \\ 75-15.00 & \ldots . . \\ 75-0 \end{array}$ |  |
|  |  |
|  |  |
| $\begin{array}{cc} 50-15.00 & 15.00 \\ 00-14.50 & 14.50 \end{array}$ |  |
|  |  |
|  |  |
| 11.00 | 11.00 |
| 50 | 10.50 |

## Ctho wexk enidis Hithex. fivive pments were made up during the week. from January 1 to e, were: 6,190 cattle, ogs and 4,597 sheep: 27 sheep, received he disposition from g houses and local 204 calves, 669 ogs and 116 lambs. United States from January 1 51 hogs and 4,940 gs and 4,463 sheep,

## OME MAGAZINE mDUATIONE \&

## The Return

isobel w, hutchison
They've brocht us back to London, where they celebrate peace a day,
to-morrow, they say, they'll send me hame.
Ay! Hame to Colonsay
but it's there that I wife, nor bairn, An' I've maist forgot, what I've been through wi' thinkin' o' the morn!
There's plenty to see in London, but I'm slow to understan
I suddenly thocht the noo o' the waves IN, comin' in on Kiloran sand
Wi' never a pause-Man! It's wonderfu'
Crested wi' green an' gray
They'll have been comin' in an' in a
the time I've been away!
I'm standin' here in London streets-no
They must h' thocht I was kind o' daft
for I stopt to hear the waves
heard them through a' yon uproar fine That they brocht the tears to
at last an' washed me clear o' Hell.
There are ower mony folk for me doon here, ower muckle fret an' rush,
I just feel I'd like to sit awhile quiet-like , Wi' God in the hush
whisper on the shore $0^{\prime}$ that Peace o' His that passes my under minister Gazette.

## A Memorial Farm.

 [In these days, when shipload after back over the Atlantic, and we are hearing so much about helping those who return and raising memorials to thosewho will never return, the following story, who will never return, the following story, may be read with especial interest, may be read with especial interest,
Perhaps its publication would have been more appropriate at Christmas time are kind thoughts and actions confined

The Shannon Memorial Farm.
A memorial farm. ""Whoever heard McQueen of her mother, as she deftly rearranged the silver and glass on Grandma Shannon looked up from her flying knitting needles and said, "Well, reason why it should not prove to be a perfectly right, reasonable and helpful
thing to do. There are memorial churches, halls, parks, hospitals, in fact, nearly automobiles-may be evey for jewelry and but never yet hay be given as memorials, And I can't see why it should not prove to humanity than many of the memorials I have mentioned many thousands of dollars spent yany, in the erections of dollars spent yearly the country cemeteries many thousands of dollars may be counted up, in some them, invested in big, little, or medium quantities of granite, rock or substitute. possessing little or no beauty of any kind,'

Just here, her little granddaughter, "What are cemeteries and monuments for An amused smile was on Grandma's
face as she turned to the serious little questioner. "The dictionary says",
she expling "Thet public burying ground. But I would say
that it is a place where our bodies are laid one place on earth where we are all on the same level. There are no reserved when our friends and acquaintance visit this place there and acquaintances what we have done. And whether we have done much or little, ill or good, a monu ment or stone is put up by us, or for us, by
others. An attempt is often erect one, in attempt is often made to respect born proportion to the love and usefulness or the size of our pocket book Or they may be built entirely out of proportion of all these things. In many no benefit to either the living or the dead." putting, Grandma who started first putting up stones when people died?" Grandma. "I have heard that long, long years ago when wild animals were plentiful, that the graves were loaded with stones to prevent the bodies from being unearthed and devoured. Another reason might be, that before the day of cemeteries they thought most shit dead wherever stones helped to locate the graves. It seems to me, that our present day monuments are a continuation of the ancient stone piles, which were ,, really useful and necessary at that time. "Now . Now run away Margy," said the and I want to talk."

Grandma turned to her daughter, with
misty eyes. "You rementber dear," she
misty eyes. "You remenber dear," she
said, "that when your father knew his earthly life was nearly over and he was earthly life was nearly over and he was
making known his last wishes, some mention was made of a monument when the lawyer =was drawing up his will.
'Don't mention the foolish, ugly things,
there are other matters of more importance tho be considered?' he said, and 1 always call with their catalogues of the agents Your father loved the farm and his farm work. He loved the everchanging beauties of the farm that followed the everchanging seasons of the year. He never wearied of the farm problems solved. He never wearied of the hand be foot struggle with mother earth and the weatherman. He lived and died as he wished, on his farm. Then there is Fred, asleep at Vimy Ridge, and Jack ported dead. months and olicially refarm work. We often hloried in the that so many of their friends chose city and town life which often is accompained by extravagance and artificialities and much of the best in life is lost in the financial and social position. If these three men were here to-day to choose between two thousands dollars invested in a memorial farm or in a monument. need we have the smallest doubt of what "No mother.
No mother. They would choose the and I à well' as the other members our family will wish to help you carry ou your plans, and also contribute the price of our monuments which would be purchased some day if we followed the the 'Shannon family memorial farm' As a memorial farm appears to be without precedent, it is likely that we may find some difficulties and problems in the way of management. But the District Repre
sentative or the William Weld Co one or two of our-ministers will give, and help they can F-am sure if required In this day of stupendous undertakings


Delegates of the Women's Institutes of Ontario to the Dominion Conventio Mrs. William Todd, Orillia (right), and Mrs. J. Patterson, Gadshill. Mrs. Arthur Murphy (Janey
and colossal achievements we should not quail before possible difficulties, And
who will say that money is better in who will say that money is better ind vested in a lifeless stone than in a pro-
ductive farm with its life-giving and fife ductive farm with its life-giving and life-
sustaining crops? When an anguished world weeps over millions slain and views with sorrowing eyes the wholesale destruction of entire countries, the piteous cry of starving people is for ood, food, food! Even in our own country, position to know- to practice are in position to know-to practice economy above all things produce more food.
A family council was held by the Shannon family and it was decided that Grandmas plan was to be carried out
with as little delay as possible. A 15 acre farm was found to be for sale for $\$ 1,200$. It had been the home of a retired farmer who kept only a horse and cow and a few hens. The principal erop was hay. After his death his wife went to been unoccupied for some time. Grandma decided that this little property could be made suitable for the memorial farm by expending some money in improvemente And so it was purchased
withe next morning found her busy with her pencil and paper, laying out the farm. She allowed one acre to be divided into a lane, from the buildings to the road, a barnyard and a garden, also a space for small fruits. Peach pear, cherry, plum and apple trees were
to be planted around the garden and lane fences, and would provide shade as well as fruit. This left 14 acres for crop: 4 acres of this was to be sown with Alfalfa; the remaining 10 acres to be
divided into three fields, with the usual divided into three fields, with the usual
three-year-rotation crop, pasture or hay first year; corn and roots second year grain and seeding down the third year. "Or if a silo is built as it likely will be next year," she reflected, "less grain will be grown and more corn. This land
should grow all or nearly all the roughage should grow all or nearly all the roughage
required by eight or nine dairy cows, one brood sow and a light team of horses that we are going to supply. When alfalfa and corn is grown very little grain is required, particularly if the young
pigs are sold early. The hay field in the pigs are sold early. The hay field in the
three-year-rotation crop, will have moveable fences and be used for exercise and pasture while it lasts, supplemented by feed in the stables, We know the astonishing amount of corn and roots that is often grown in the backyards
of villages just because the land is well fertilized and cultivated. Our land is in good condition now, and when the manure from all that stock is drawn out daily and spread or piled on the land, according as circumstanices will allow, it won't
be long until there are bumper crops. be long until there are bumper crops. man-industrious, experienced and am-bitious-I am sure he will make not only a good living but will save sufficient n , from three to five years, to start on a mall place of many men is cke dream or to own their own land and make their living on it and enjoy an independentce, that is unknown when in the service of others. We'll help some men to realize their hope for freedom and independence." the buildings fixed up in time to have the farm in operation before Christmas," the gravel for the foundation of the barn will soon have to be drawn. There is a
lot of fall work to do yet, and little help to "be got." replied her mother. "I feel sure, we'll have our farmer and his family comfortably settled before Christmas,". And they did. They succeeded in hiring a
little extra help, and when the neighbors heard of the purpose of their purchase,
was gladly accepted, and the dairy barn was ready for the stock in good time. A carefully drawn up lease was next
prepared for signature which required ail instructions faithfully follow any or directors who would meet once a month on the farm or oftener if necessary. The tenant received free use of the farm stock and implements by paying 4\% up the initial valuation of stock, feed ang up the initial valuation of stock, feed and close of each year, and paying taxes and doing -road worle. The interest amounted to $\$ 100$ per year, and this was to be set aside for the upkeep or further improve ments on the buildings.
the use of the farm free of lil to give But the directors decided that the sum of $\$ 100$ per year was not much more than rent for the house and garden, with fruit, and that when the man had the
proceeds of eight or nine good cows which proceeds of eight or nine good cows, which from $\$ 1,200$ to $\$ 1,400$, -whether h sold the milk in the village or sold the cream raised calves and then had the sales money from the pigs to pay expenses, there was no reason why he should not save a considerable sum of money each year and at the same time be taught to give proper care to the property en trusted to him.
Grandma's only remaining son and her son-in-law were teaming in the feed marked to the other, that hen one rewhat Grandma would have done if that little place had not been been for sole "You need not wonder", answered his companion, what she wanted off of it and sold the remainder, for memorial farms if possible I heard her say laśt night that even two as much money as our memorial farm by keeping bees, growing onions, strawberries or poultry.
The last load of feed was stored in the barn. Telive dairy cows were purchased inspection of the would-be-tenants, and many, many applicants there were. eturned so directors choice fell on a gassed and badly shell-shocked slightly choice was unanimously a aproved of the whole country side. The man was well known and highly respected, having young boy from Doighborhood when arnardo's Home," And during the intervening ment had grown from a timid but willing little helper into an energetic and valuable farm worker. His Canadian wife and son, aged ten, will prove able assistants and that hell "make good" is the belief of all who know him A few days before they moved into
their new home, Mary Dale-the promised wife of the missing son, Jackmight have the privilege of repairing and painting a part of the house which eeded it. "Jack would like it I am sure," "So would we all", replied Grandma and the rooms were soon in perfect order Next came a donation of fruits and vege tables from neighbors and while Grandma was furnishing the bare pantry shelve an armful of curtains and rugs. "IT" never need them, now that Jack is gone,
she whispered to she whispered to Grandma. Silently they wiped away their tears and continued in their good work. At last everthing was in order and the tenant and his
young family comfortably settled *) The Shannon family decided a memorial service in the memorial farm house on Christmas Eve. They invited
the helpful neighbors and a few friends. the helpful neighbors and a few friends.
When they all arrived on that evenis When they all arrived on that evening their aged minister who was to thay taken charge of the service could not be
present owing to illness. It was decided to postpone the service until he would were heard and a knock was heard bells door. When it was opened a tall khaki clad man strode in "A Christma
present for Mary Dale and the Shanno family," announced the missing Jack We can slip away, unnoticed now
in the eoyous welcome given Jack by his
friends.

## The Fashions.

2682. Girls' Dress. Size 10 will material. Price 10 cents.
Note.-We cannot possibly supply
patterns of designs clipped from other papers. If you order a number of patterns and one.or two arrive boforo the rent, do not be alarmed. The ably.

When sending your orders for patterne to us, please cut out the picture of the pattern you want and enclose it. Also fully and address to "Pattern Department, Farmer's Advocate and Home
Magazine," London, Ont.

## Name.

Post:Office
County.
Province...
Bust measure (if for waist or one-piece dress)
Waist measure (if for skirt)
Age (if for child)
Number of pattern.
Date of issue in which pattern appeared
Allow a week or ten days in which to receive pattern.
2686. Ladies' House Dress

Cut in 7 sizes: $34,36,38,40,42,44$, and quires 6 yards of, 36 -inch material Width at lower edge is $21 / 2$ yards, with plaits drawr' out. Price 10 cents

10) 酸


2699-2698-Ladies' Costume.
$38,40,42,44$ and 46 inches bust 34,36 , Skirt 2698 Cut in 7 sizes: $22,24,26,28$, 30,32 , and 34 inches waist measure. To make the dress of one material will require $51 / 2$ yards of 40 inches wide, for a medium. size. Width of skirt at lower edge is 2 yards with plaits drawn out. EACH pattern.
2676. Ladies' Waist.

Cut in 7 sizes: $34,36,38,40,42,44$ and 46 inches bust measure. Size 38 requires $2 \frac{23 / 4}{}$ yards of 36 -inch material. 230 ,
2339. Ladies' Dress. Cut in $\mathbf{7}$ sizes: 34, $36,38,40,42,44$ equires $71 / 4$ yards of 36 -inch material. he skirt measures about 3 yards at the foot, with plaits drawn out. Price 10 cents.
2567. Girls' Dress.

Cut in 4 sizes: 10, 1214 and 16 years. Size 12 will require 3 yards of 36 -inch material for the foundation. The over-
blouse will require $21 / 4$ yards. Price, 10
2702.

Cut in 7 sizes: $34,36,38,40,42,44$ equire $41 /$ bust measure. Size 38 requires
Price 10 cent

## 1




ver

 32, and 3 tow $2,2,2 x, 2 x$, nin

 the foot, with plaits drawn out, Price
10 cents.

2000 Indies' Dress



To malie sloeves and overblouse of conrequing $3 \%$ material as illustratod, will require 35 yands of material 27 inches measures about 2 yards at the lower drese
2700. Child's Set of Short Clothes

3 Cut in 5 simes: 6 months, 1 year, 2
3 and 4 years It will reppire fort it
For the dravers $3 /$ yard. For the 5 if
$11 / 2$ yards, fors a 2 year sive. Price 10
2694. Girls" Dress.

Cut in 4 sizes: $6,8,10$, and 12 years material. Price 10 cents.

## 2697 . Ladies' Apron.

Cut in 4 sines: Small, 32 31; Medium 36-38; Large, 40-42; and IExtra Large $44-46$ inches 10 will require $41 /$ yards of 36 -inch materia Price 10 cents
2677. Misses Dress

Cut in 3 simes: 16, 18 and 20 -years Width of skirt at lower edge is 13 yardh Size 16 will require $35 /$ yards of 54 -inc
2678. Chiters Romptis

Cut in 4 simes: $2,4,6$ and 8 years. Size 4 will require $23 /$ y

Cut 3 cimes: 12 14 ant 10
Cut in 3 sizes: 12,14 and 16 years material. Price 10 cents.
2675. Ladies" House Dress.
Cut in 7 sines: $34,36,38,4042,44$ and Cut in 7 simes: $34,36,38,4042,44$ and 46 inches bust measure. Size 38 requires
$61 / 8$ yards of 36 meth moterial Width
at lower edge is about $21 / 3$ yards. Price 10 cents.

## Hope's Quiet Hour.

A Secret Sanctuary.
Thus saith the Lord God: Whereas Thus saith the Lord God: Whong the nations, and whereas I have scattered them among the countries, yet will I be to them a sanctuary for a little while in the countries where

## Come ye vourselves apart and rest

Come ye yourselves apart and
awhile,
Weary, I know it, of the press and
Wipe from your brow the sweat and
And in My quiet strength again be
strong.
Come ye aside from all the world holdsp
For converse which the world has never
For converse which the worid has
With Mere, and with My Father not alone."
While the Israelites were journeying to the Promised Land they had a Tabernacle which journyed with them. Presence in their midst. While they marched it was carried in the midst of the host, ar a when they remained in one place-for a long stay or for a short one centre of the nacle was set up in the very centre ofter the people had rejected God and worshipped people had reject golden calf God said: "I will not go up in the midst of thee." No wonder the people mourned, and put off their ornaments, when the Place or Camp.
ing was pitched afar off from the ing was pitched afar off from the Caugh the But, even then, those who sough wich
Lord went out uato the Tabernacle whic was without the Camp. When the Premised Land had become
Israel's possession the Tent of Meting was changed into a Temple of glory of
 Mince $32,2,2,2$, nin of skirt is about $21 / 2$ yards at - with phits drawn out, Price

## Ladies" Dress

$=$ sines: $34,36,38,40,42,44$ and of one matterial, 40 inches wide. = sloeves and overblouse of con5 yaterial as illustrated will The yards of material 27 inches the sinch size. The dress cents.
Childi's Set of Short Clothes, 5 simes: 6 months, 1 year, years. It will require for il di yards of 36-inch materin Y y yard. For the Slin is, fors a 2 year size. Price 10

Girls" Dress
4 siaes: $6,8,10$, and 12 years mill renuire $3 / 2$
Lader' Arow
$4 \sin 5$
 te4 en

3insicici 18 add 20 yan sir th tome deden is 13 arevie 3\% yand of 5 find

Remm
4 mine: 2,6 and 8 yan
 Pise 10 conts
3 simes: :12, 14 and 16 vand ill require $4 / 2$ yards of 36 -inch Price 10 cents.
aties Hown Dese
 bot mown site rewirit of 3xind memern wind

## ope's Quiet

## Hour.

Secret Sancturry. th the Lord Cod: Whereat wed them for off amom the dteros I heve satitem
 is wher they are come 16 (R. V).
hacoredves apart and ret gs: in, of the press and $=$ sour brow the swat and of too guiet strenght agsin ter aside from all the word hodidp tise which the word hos eemer n' Mc and with My Fatace na with My Father not alome" Essadites mere joumerejing to Ch land wey had it Noult sim of Goris Preemext the whic they marched it it min mids ot the bost ant ind tor ad inan one phace tiver. $t$ po in the oren ene onte of the te mas as and time atere tice crived God and worstipose alt whea bod sidid "I propete midest of thee poit of poope mournof ano pivelt ned afar of from the camp ten, those who sulf widh the Camp Promied I Iand had beoweme sion whe Tent of Metiting for into a Temple of flory

March 6,1919

life happier.

Delco-Light brings to the farm the final aim of years of workelectricity in an efficient, economical form. Because of its lowcost and money-saving it is within the reach of every progressive farmer. It puts the farm on an equal basis with the city. It gives you city efficiency right on your own farm, Every farm should haive a Delco-Light plant. Delco-Light saves work-increases production-makes farm

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dairymen. for witewashing the ir
barnt barns. chicken and fow houses,
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## Kent County Seed Corn R. J. WILKIE ${ }^{\text {Address }}$ Blenheim, Ont

$\left\lvert\, \begin{aligned} & \text { Jerusalem. } \\ & \text { His people. }\end{aligned}\right.$ God was still in the midst of When St. John saw a a vision of the New was no visible temple there, "for the Lord God Almighty and the Lamb are the temple of it.'
Whether we journey through the wilder-
ness toward our Promised Land, or pass ness toward our Promised Land, or pass
through the gate into the City, there is through the gate into the City, there is
only one Temple, one Meeting Place, one Sanctuary. The Lord God still says to His scattered children: "Yet will I b
to them a Sanctuary": If, by our wilful rejection of Him, we
force Him to stay outside the door of our heart, still He remains within reach, so that when we seek Him in humbl penitence
Meeting.
At Christmas time a friend sent me little leaflet on which was printed message which may be helpful to you so I will pass it on. It is called: "A
Shrine in the Heart," and it is written by 'He says: "Amid any circumstance whatever, deep down in your heart you
utter the word 'Father,' and instantly utter the word 'Father,' and instantly
you know that the Father is there and is you know that the Father is there and is
listening, and amid all the ceaseles listening, and amid all the ceaseless
activity of His creative work pauses to listen to His child. So you keep, as it were, a little shrine in your heart where
God condescends to abide always, and you can lift the curtain and go in just whenever you like; quite sure to find Him
Who loves you, Who belongs to you do to Him. People wonder what there is in religion; they think it consists of church-goings and sermons and tracts and controversies; they little suspect that there are many who, by Gods grace carry within their own hearts the source of all moy and peace and love. Happy While the world frets and worries, he thanks God that, by the easiest process in the world-the simple lifting of the spiritual curtain-he can enter into the House or Rest he carries within him, and he can rest there-he can please himself, for there is no etiquette here; he who knows God knows freedom.
As there is no barrier of space which can shut God out, so there is no barrier of time. The promise made through
Ezekiel thousands of Ezekiel thousands of years ago is as
true to-day as it was then. Those who are removed far off from the home
churches discover that God will keep His pledge and will be to them a sanctuary in the countries where they have come.
Two days ago I was visiting a poor woman, and she showed me a letter she nephew). It was dated "Whitsunday, May 19, 1918"-and the writer was a prisoner in Germany. I copied part of
the letter, as it was well worth passing great deal to thank God for, He brought me through a terrible ordeal without a scratch. I felt His presence with me,
and oh how I treasure that promise of His 'Fear not,'for I am with thee unto
the end. It is a splendid promise, not? I have just put myself in the is it of a bird in a cage waiting for the good hand (of God) to release it, and once
again give it the blessing of Freedom (and Peace) which, thanks be to God, has to come sooner or later, but I earnestly
pray that it may be soon." I read that hopeful message to a friend alking to a man who had been a prisoner of war, and he could not speak of it withProbably the difference was not so much in the circumstances as in man carried his secret sanctuary always in
his heart; and there he knelt at the feet of Christ and caught His spirit. He began
to pity those who treated him badlypitied them because their souls were diseased. As Isaiah describes soul-sick unto the head there is no soundness in it but wounds, and bruises, and putrifying
Yesterday I was talking to one of God's "I know He will be with me. I to sking Him to let me die easily. What
ould I do without Him?", wearily as she sat, propped high to reliev
he strain in the heart, but her happy and full of peace. "What could I
do without Him?" I have heard words

Founded 186


## Economy

The difference in cost between an ordinary baking powder and the pure, strong, double-acting

## EGG-0 Baking Powder

is trivial. It amqunts to only a fraction of a cent on each cake you bake. Against this you risk your highpriced four, butter, sugar, eggs and milk, and your reputation as a cook.

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## 1

## 10my

 rdinary baknd the pure,

## Get MORE CROP TO THE ACRE SI <br> We have issued an interesting folder on this subject, entitled "More Crop

 to the Acre." Send for it (we mail it to you on request) and learn how to tes your soil for acidity, how to apply.Agri-limCANADA CEMENT COMPANY LIMITED
Sales Orices at $941 \begin{aligned} & \text { Herald Building Montreal } \\ & \text { Montreal }\end{aligned}$

## Spread AGRI-LIME

remedy is to spread on such soil a liberal quantity of Agri-lime-the new agricultural limestone.

This new product fills a need that has longexisted in Canada-it is a fine pulverized limestone, which will positively neutralize acidity in any soil. It will do for any Canadian land just what similar use of agricultural lime has done for the wonderful farms of France and Belgium, where they use it, in conjunction with other fertilizers, to correct acidity and restore the productivity of the land.

> GOVERNMENT surveys have disclosed the fact that the use of agricultural limestone is necessary in many districts throughout Canada.

> In many cases the soil examined by the government experts was in immediate need of lime-in order to neutralize the acid condition. In some instances the soil was found to be of a naturally "sour" type-in other districts it was a case of "over-cultivation", the decay of vegetable matter having reduced the productive value of the soil. In either case the simple

## FINANCE 3N DEPARTMENT

DOMINION INCOME WAR TAX ACT TO WHOM APPLICABLE．
Every person who in 1918 resided or ordinarily resided in Canada or worporations and joint stock companies．business in Cenada，including

WHO SHOULD FILE RETURNS．
1．Every unmarried person or widow or widower，without dependent children under twenty－one years of age，who during calendar year 2．All other individuals who during calendar year 1918 received or earned 3．Every corporatio
Every corporation and joint stock company whowe profita exceeded
$\$ 3,000$ ，during the fivcal year ended in 1918 ．
，
FORMS TO BE FILLED IN AND FILED
FORM T1．By individuals，other than farmers and ranchera．
FORM T2．By farmers and ranchers
FORM T3．By trustections and joint stock companiea
FORM T4．By employers to make return of the namee of all asignees， officials，，agents or other employees to whom was paid $\$ 1,000$ or more in salaries，bonuses，commission or other remunera
FORM TS．By corporations join vear 1918
syndicatee to molke return of companies，associations and to shareholders and members during 1918． Individuals comprising partnerahips must file returns in their
GENERAL INFORMATION
All returns must be filed IN DUPLICATE
Forms may be obtained from the Inspectors and Assistant Inepectors Returns should be filed immediately．
Postage must be prepaid on letters and other documents forwarded
Addresses of Inspectors of T
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Inspector of Taxation，
Carling Block，
N，Ont．
Assistant Inspector of Taxation．
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ue and make re-

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March 6, 1919



Poultry Wanted


THE FARMER'S ADVOCATE.

## Our Serial Story.

Tne Forging of the Pikes. A Romance Based on the Rebellion
Serial rights secured by the Farmer's Advocate CHAPTER XIV.
HIS afternoon I have spent with Rein
Jock. Jock. I went first to the tavern to bee sound, butry, but she was nowhere to
bered-faced buxom
damsel whem from Buffalo, to help in the house, and who, by my faith, seems mightily at home.
Barry had been gone all day, she said; she didn't pretend to keep track of her the woooss as usual. shop, half hoping my girl might be
there, for she dearly loves to drop in for a chat with Red Jock, especially
of a Sunday, when he is not busy and time to talk.

But Jock was sitting alone under the shaven, laboriously reading a newspaper, before I reached him I good effect that torian whispers. So absorbed was he that he was dead to everything else, and
I was close beside him before he was of me.: "Hoots, mon!" he exclaimed, with evideots, pleasure. "Ho exclaimed, wite ye the day?
Ah'm richt glad tae see ye. Sit do an' hae a bit crack."
So I threw my hat on the ground and stretched myself beside it, and we "cracked about the weather, and the harvest, and the highway. home Jock would not hear of it. "Indeed an, yell no," he said. "Ye'll juist bide welcome ye'tl be. The Sabbath's a ken. When a mon's at his wark the time gaes by like a burn; ripplin' an laffin'happens tae be oot o' humour. But it's the snaw in a late springtime, an' it's keep him believin' life's, worth livin' best thing in life, mairret or wark's the no the curse it's been branded. If
it wisna for 't we'd be a' eatin' and anither up like the beasties i' the jungle, Ah doot." I asked. "A fine man like you shouldn't have to be missing the wife and bairns."
He rubbed his chin for a minute, "Weel," he said, turning to me, with the twinkle in his eye that I had expected,
"Just escaped it?" added, chortling with the remembrance. asked, feeling my way cautiously, for gab" he can be as dour and reserved
as an Indian if the notion takes him. But this time, he was expansive.
"Oh aye," he replied, quite cheerShe wis a gey fine lassie, wi' curls an a lad daft, -an' a way o' turnin' her fer $a^{\prime}$ the warl' like Tam Johnson's I nodded, and he went on with thusiasm, "Oh, aye. That'll be a bonnie
leddy, ane o' these days! Slim an' prood, vi' her heid up, an' fetlocks as trim as t'll be a fearsome time Ah'll hev' wi "Bam Johnson told me-" story Jock, 1 interrupted, and that ' the lassies!', he laughed Weel, as Ah wis sayin' she wis eneuch eneuch an' no mistake, but juist aboot
that time my sister gaed awa' - wha wis keepin the hoose, ye ken-an' the lassie's
mither gied me an invitation to bide wi
the family till she cam' back. Weel.
 main bearings are angled.

## (4)

## RENNIES SEEDS

 Produce Victory Crops

THE Renmic Catalogue for 1919 is brimful of information and suggestions on the srowing of flowers and veze in colors, this catalogue is truly valuable as a gardening guide. Itshows you the practical reults obtained by planting testthe best kind of seeds to buy
Use the RennieCatalogue
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Make your selection of seeds from ithee go to your dealer and have him fill the order. If he cannot supply you with aul jou require write us direct.
Seeds are tested at our trial Rennie's This insures that buyers of Rennie's壁
If you haven't raceived a copy of owr 1919 Catalogne, write for one to-day.

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\section*{ALPHA GAS ENGINE} has angle bearings

This is the bed of the Alpha Gas Engine, showing how the
You can leave the caps off and still run the Alpha-because the thrust of the piston is on the frame itself, not on the caps or he bolts. The bearings don t need to be over-tight, and as they are made of highest grade babbitt they will last for years.

Every other detail is worked out with the same care to make the Alpha reliable, easy to start and hard to get out of order.

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Note how the long levers make ganğ shifting easy. quickly and easily adjusted and has breat flexibility and increased penetration. This insures Not only is the handling thorou 8 h pulverization easier but the work is of the soil, better se bed, larger yield.
Can be hitched to any tractor.
Have your dealer give you complete details of this Harrow.
Emerson-Brantingham Implement Co., Inc., Regina, Sask. The John Goodison Thresher Co., Sarnia, Ontario.
\(E=B\)
Disc Harrows


Jock,", I said, laughingly, "but it's not
so very pleasant to live alone as you do. so very pleasant to live alone as you do
Besides, Tock, a man like you, with a good trade, ought to leave a famity in new country like this. Jock did not reply for a moment but sat looking off into the deep shadows
of the woods beyond the road, where the maple trees were already showing an odd blaze of scarlet and the bechles a shimmer of pale gold. he said presently, "tae ony leevin' he said presently, tae ony leevin soult
But Ah've no negleckit ma dooty \({ }^{2}\). But Ahe no negleckit ma deoty \(i\) the
thegither. There wis two weans if te Old Countrie, wha wis left wioot a frien' in a' the warl.' Ah promised thid
faither Ah'd tak' care o' them. The'se faither Ah'd tak' care o' them. They's
in Toronto wi' a gude wumman in Toronto wi' a gude wumman gum
keeps them as clean an bonie as daisiós kepps them them tae the schule. She's
and sends fain eneuch taie get the bit monoy fer their keep, puir body, an
gude home fer the weans." Again he paused an looked into the
 that Ah'd mairry her the morrow gux
she'd tak me. She's a winsome by an' no fashin' hersel' ower bit steeks at ither fowk's business. But her hert 's
sore yet ower him that's gaed awd Ah doot if aye she? luik at ar "A're you very fond of her, Jockr"
I asked. "Noo ye've said it," he replied. "Alan she's tae me what 'Barry is tae yous
gin Ah ken the signs.-Aye Alan, but sto's gin Ah ken the signs.-Aye Alan,
the dainty lass! The wee han's of her like the hawthorn buds \({ }^{\text {i }}\), the spriegt
An' the saft voice of her, like the wits soughin' up there i' the pine trees! An the big gray een luikin' up like stars foes
her widow's bunnit!-Ah doot, Ahs. her, widows bunnit?,"
she's ower fine fer me."
So it So it was that I learned that
Red Iock cherishes his romance. "What is her name?" I asked, and he said "Elizabeth." To be continued.
The Dardanelles, by action of the War Trade Board under instructions trom the Supreme
in Paris, were thrown open to Ameriaa in Paris, were thrown open
trade interests on Feb. 15.

\section*{PRICES DOWN!}

Very substantial reductions in the following old established "Eastlake" Shingles Corrugated Iron "Metallic" Siding
"Metallic" Ceiling This will be good news to know the value and merit of WE PAY THE FREIGHT to most points in Ontario
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The
METALLIC ROOFING CO.
TORONTO


\section*{Current Events} D. D. Mackenzie, former Nova
\(\begin{aligned} & \text { Scotian Judge, is Floor leader during the } \\ & \text { present Parliamentary Session at Ottawa. }\end{aligned}\)
J. W. Widdifield, United. Farmers of
Ontario Candidate in the Northern Ontario Candidate in the Northern
Ontario Provincial by-election, was elect-
ed by 418 maiority over Major Harry ed by 418 majority over Major Harry
Cameron, Government candidate. Mr. Edward W. Beatty, K. C.,
President of the C. P. R., was formally
nominated as Chancellor of Queen's nominated as Chancellor of Queen's
University.
Perth, Middlesex, Dufferin and Victoria
have sent a petition to Parlian "daylight saving."

\section*{Markets}

\section*{Toronto Produce.} Receipts of live stock at the Union
 catte, 364 calves, 1,785 hogs, 566 sheep
and lambs. Strong, active market.
and lamer Prices 25 cents to 50 cents higher than high tide last week. Top for loads,
\(\$ 16.25\) per hundred for 16 steers, average \(\$ 11\) to \(\$ 12\) per hundred. Bulls, \(\$ 8\) to Milkers and springers steady;
\$12:
choice calves, steady; others slow and choice calves, steady; others slow and
50 cents lower. Sheep and lambs steady 50 cents lower. Sheep and lambs steady.
Hogs, \(\$ 18.25\) to \(\$ 18.50\) fed and watered. Breadstuffs.
Wheat-Ontario (f.o.b. shipping points,
according to freights)- No. 1 winter, per according to freights)-No. 1 winter, per car lot, \(\$ 2.14\) to \(\$ 2.22 ;\) No. 2 , winter, per
car lot, \(\$ 2.11\) to \(\$ 2.19\); No. 3, winter per car lot, \$2.07 to \(\$ 2.15\); No. 1 spring, per car lot, \(\$ 2.06\) to \(\$ 2.14 ;\) No. 3 spring, per car lot, \(\$ 2.02\) to \(\$ 2.10\). Manitoba (in
store, Fort William,) No. 1 northern,
 northern, \({ }^{\text {Oats. }}\) Ontario (according to freights outside)-No. 2 white, 58 c. to 61 c . . No. 3
white, 57 c . to 60 c . Manitoba (in store,
 \(651 / 8\) c.; No. 1 feed 618 ch 2 feed,
Corn--American, (track, Toronto, Jan.
shipment), No. 3 yellow, \(81.50 ;\) No. 4
yellow, 81.47.
Peas (according to freights outside)
Barley (according to freights, outside) - Buckwheat (according to freights out-side)-No. 2, 85 c . to 90 c . nominal.
Rye (according to freights outside)-
Flour.- Manitoba (Toronto)- GovOntario (prompt shipment). \(\begin{aligned} & \text { Govern- } \\ & \text { ment } \\ & \text { standard, } \\ & \$ 10.85 \\ & \text { to } \\ & \$ 11.10, \text { in }\end{aligned}\) bags, Montreal, \(\$ 9.55\) to \(\$ 9.75\), in bags, Toronto;
Millfeed.--(Car lots delivered, Mont-Mealfeed,- friehts, bats included- - Bran, per
ton, \(\$ 40.25 ;\) shorts, per ton, \(\$ 42.25\);
 Hay-(Track, Toronto)-No. 1 , per
ton, \(\$ 20\) to \(\$ 21\); mixed, per ton, \(\$ 18\) to \({ }^{\$ 19 .}\) Straw.-(Track Toronto)-Car lots, per ton, \(\$ 10\) to \(\$ 11\).
Hides and Wool.

Hides and Wool. City Hides.-City Butcher hides, green,
flats, 18 c ; calf skins, green, flats, 30 , veat
\(\$ 6\) to \(\$ 7\); sheen, \(\$ 3\) te \(\$ 4\).
.
 hides, country take-off, No. 1, \(\$ 6\) to \(\$ 7\),
No. 2, \(\$ 5\) to \(\$ 6\); No. 1 sheep skins, \(\$ 2.50\) to \(\$ 4\); horse hair, farmers' stock, \(\$ 28\).
 to 19c.
Wool.-Unwashed fleece wool as to
quality fine, 50 c . to 55 c . Washed wool, quality, fine,
fine, 75 c . to 80 c .
There was again no change in butter
during the week; creamery, fresh-made

\section*{Made in Canado \\ }

\section*{How One Farmer}

\section*{Carried the Bond Issue-}

A WELL-KNOWN en- "I look as if i had crawled it's the best good-roads story we ever I'm only half through because heard. dollars' worth of groceries that 1 bought from brother Fletcher.
He says the district was in
terrible need of terrible need of better roads.
The mud all through was so deep that it was impossible to use wagons, all travelling being done either on foot or horse back.
In spite of the need there was little enthusiasm for good roads when the Highway Board met Everyone was afraid of the presumed high cost and increased taxes.

A farmer in the back of the room arose.
> ain't fit to address a dignified meeting, like this, but that's bemiles over the kind of roads you give us.
"I couldn't drive, I had to
ride horseback ride horseback. My boots are
covered with mud; my trousers are covered with mud; my coat is covered with mud; and if I hadn't stopped to wash it my face
would be covered with mud, too. "If there had been a good, could climb up and draw in a ioad of lumber that I've got ready, five would have bought twentyinstead of five dollars' worth, and there would have been that much more money in town to-night."
And the mud-covered farmer sa case. They pointed out the up his roads were an assel instead of a liability; an economy instead of an expense; that they brought money into a town and greatly increased the markets.

The result was that the Commissioners enthusiastically passed a to give them several miles of good roads.
Mud holes may look cheap, but they are the costliest thing any comwill build and maintain your roads with Tarvia you will have dustless mudtess, frost-proof highways that Illustrated booklet free on request

The


ST. JOHN, N. B.
halifax, N. S.
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\section*{What Should an Engine Weigh?}




Cushman Motor Works of Canada, Ltd. Dept. L. A., 36 Colborne St., TORONTO, ONT.


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You go to your lawyer for legal advice;
to the doctor for medical advice; why not to The Merchants Bank forfinancial advice?

If you want a loan to buy cattle, hogs or equipment-if you want information as to how to invest money -come to those who make a business of financial matters, and are in a position to give you sound and THE MERCHANTS BANK

\author{
OF CANADA
} Established 1884



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\section*{MIITON BRCK} Wre can ship Now, from full stocks of Red and Buff
Pressed or the famous Milton "Rug" in varied shades.
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deposit them to your credit and send you a prompt acknow. ledgment.

If you need cash we cash you cheques by mail, too, sending you the money in a registered letter.

We understand the farmer's problems and gladly assist him in every way possible.
We will wel come your account.

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 -

The Molsons Bank

IS ALWAYS GLAD TO ASSIST FARMERS
in any legitimate financia ay to make their far
more productive.水
State your requirements to our glad to advise and assist you.

\section*{SEEDS}

While stocks last we offer the following!

Red Clover-No. \(3 \ldots \quad\)\begin{tabular}{c} 
Per bus \\
\(\$ 24.00\) \\
\hline
\end{tabular}
Alsike-No. 3
Timothy-No. 3
15.00

Cctton Bags 60 cts extre. Tirms-Cash with order Samples mailed on request.
J. A. SIMMERS

TORONTO \({ }^{\text {Limited }}\)
Sweet Clover

pound squares selling at 56 c . to 57 c . per
lb. Creamery cut solids at 54 c . to 55 c . Dairy butter at 45c. to 52 2c.
Olemargarine, 32 c . to 34 c .
Eggs.-New-laid eggs again declined, selling at 48 c . pet dozen, wholseale,
Selects in cartons bringing 50 c . to 52 c . per dozen.
Cheese.-The cheese market is ver firm at slightly a dvanced prices. Year-old
Stilton selling at 35c. per Ib. J une cheese Stiton seling at 3c. per in. June chees.
at 31. per lt. and september at \(281 / 2 \mathrm{c}\). to 291/2. per ib,., wholesale.
Honey. - Honey has weakened during the past week selling at 25c. to 28 c . per
b., in 60,10 and \(5-1 \mathrm{l}\). pails. Poultry advanced slightly being
quoted as follows, for live weight to quoted as Collows, for ilve weight to
producers: Chickens, crate fed, per 1b. \(41 / 2 \mathrm{lbs}\)., per lib., 25 c .; hens, \(41 / 2\) to 5 lbs ,

., 35 c .
Wholesale Fruits and Vegetables. Apples,-Prices have firmed consider-
ably on the wholesales here, owing to an active demand and limited supply-
though the old country market has weakened; and are now selling as follows Ontario barrels at \(\$ 6\) to \(\$ 10\); boxes at
\(\$ 2\) to \(\$ 3.75\); while the westerns sell at \(\$ 3.25\) to \(\$ 4.25\) per box.
per case.
Lemons did not vary at \(\$ 4.50\) to \(\$ 5\) per
Oranges advanced, selling at \(\$ 5.50\) to
\(\$ 6.50\) per case.
Rhubarb prices remained unchanged
at \(\$ 1\) to \(\$ 1.50\) per dozen bunches. Strawberries sold at 75 c. to \(\$ 1\) per
Tomatoes-Both California and Florida selling at \(\$ 10\) per case and \(\$ 12\) per six-Beans.-The bean
Slow at \(\$ 2.75\) to \(\$ 3.50\) per bush
Beets. selling at 90 c . to
Cabbage
ho
per bag.
sale again at \(\$ 1.50\) to \(\$ 2\) rer ther a slow 65c. to 75c. per bay according to form extra choice quality came in freely during the week, selling at \(\$ 2.25\) to \(\$ 2.50\)
per pony crate \((9\) to 15 heads). Lettuce continues to be scarce; home-
grown leaf of small size, selling at 35 c . to 40c. per dozen bunches.
Onions have firmed materially, and there ity now an active demand for choice
quality goods. They are selling at
s1 50 \(\$ 1.50\) to \(\$ 1.75\) per \(75-\mathrm{lb}\). bag and \(\$ 2\) to
\(\$ 2.25\) per \(100-\mathrm{lb}\). sack, poorer quality grading from those prices down. Ontario potatoes have generally been of extra choice quality, selling at \(\$ 1.15\)

\section*{Chicago}

Hogs.-Butchers, 817.50 to 817.75 ;
light, \(\$ 16.50\) to 817.75 : packing
lict lipht, 816.50 to 817.75 ; packing 816.65 to
\$17.45; throw-outs, \(\$ 16\) to \(\$ 16.65 ;\) pigs, Cattle. Compared with a week ago,
 teeders, 25 c . to 50 c . higher; canners and
Cutters, 25 c . to 50 c . lower: calves, 75 c .
hivher Sheep.-Market unevenly 50 c . to \(\$ 1\) higher than a week ago: yearlings and
strong-weight and in-betwen grades
of hanssadvancin moct

Cheese Markets


\section*{Buffalo.}

Cattle--Cattle market was high and
most satisfactory at Buffalo last week, the
result of lighter runs than have been, had
in recent weeks, and the further fact
of favorable weather for a better dressee
beef outlet. Demand was strong for all
flasses of cattle and pricos fully form
higher than the previous week were paid for vin of butchering cattle. In sympathy lrought trattie stockers and feeder
ling
kinds ruled hiver prices. Bulk of all market was hher, while a mood, stron
maringers. Conadidins wero cows and

\section*{1}

March 6， 1919
Judicial Sale In the Supreme Court of of Ontario
RE
Hoprivs
HOPKINS
vs．
HoPKINs















匃

\section*{Alliance}
er for legal aldioic： al advice；why not for financial advice？ o buy cattle，hogs or \(t\) information as to come to those who ancial matters，and

TS BANK
Established 1884． mich in New Brunwick， 2 Branche
tchewn， 65 Branches in Albet
effectively． Unive

\section*{rthroom} closet clean is taps path and basin


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\section*{Mーローローロ}
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up it is hard
o up it is hare
product like

Cul as hey have been during recent weeks，
about teventy five cars covering roceipts
he atout feventy－five cars covering receipts
heter from the Dominion．Best Canadian
sters
 hafr sold around 81.75 but were not a
very
good kind at that．Best native
 takin a favorable viewo of the market
for the future，believing that unless
 hold to present standard Offerings for
the e week totaled 4,175 head，as asainst
 year aroo Ootations：

 Coarte and common， 810.50 to sitl．Best
 to \(\$ 15.25\) ；medium weight，\(\$ 12\) to \(\$ 15\) ； Butchering plain，\(\$ 10.75\) to \(\$ 11\) ． to prime，\(\$ 16\) to \(\$ 17\) ；choice heavy，\(\$ 16\) to \(\$ 16.50\) ；best handy，\(\$ 14.50\) to \(\$ 15\) ；fair to good，\＄12．50 to \(\$ 14\) ；light and com－ Cows and Heifers．－Best heavy heifers， \(\$ 11.50\) to \(\$ 12\) ；good butchering heifers， \(\$ 11.25\) to \(\$ 12\) ；fair butchering heifers，\(\$ 10\)
to \(\$ 10.50\) ；light common，\(\$ 8\) to \(\$ 9\) ；very to \(\$ 10.50\) ；light common，\(\$ 8\) to \(\$ 9\) ；very
fancy fat cows，\(\$ 10.50\) to \(\$ 11\) ；best heavy
fat fat cows，\(\$ 9.50\) to \(\$ 10\) ；good butchering cows，\(\$ 9\) to \(\$ 9.50\).
Hogs．－Market was quite active all of Hogs．－Market was quite active all of
the past week．Heavy hogs were the most popular with buyers，and they commanded top prices．Monday several
decks on the weighty order brought \(\$ 18\) to \＄18．10，but the general price for mixed and under－weights landed mostly at \(\$ 16.50\) ．Tuesday prices were up 10 to 25 cents，top being \(\$ 18.25\) ．Wednesday the
best grades brought \(\$ 18.25\) to \(\$ 18.35\) ， best grades brought \(\$ 18.25\) to \(\$ 18.35\) ，
with underweights selling from \(\$ 16.25\) to \(\$ 17.25\) ；Thursday＇s market，outside of one deck of heavies that brought
\(\$ 18.45\) ，was generally steady，and Friday prices were off 15 to 25 cents，top，which
was for heavies，being \(\$ 18.15\) ，bulk moved at \(\$ 18\) ，and lights and pigs ranged from \(\$ 16.25\) to \(\$ 17\). Good throwout roughs sold largely at \(\$ 15.50\) ，and stags，
ranged from \(\$ 13\) down．The past week＇s receipts totaled 23,900 head，being against 36,079 head for the week before，and
20,400 head for the same week a year ago．

\section*{Montreal．}

Horses．－There is some demand from
farming sections for good mares ranging in price from \(\$ 150\) to \(\$ 200\) ，but heavy
horses are almost unsaleable at the moment．Prices showed little change
from week to week．Heavy draft horses， weighing 1,500 to 1,700 lbs．，were \(\$ 2.50\)
to \(\$ 300\) each：light draft，weighing 1.400 to 1,500 lbs．，\(\$ 200\) to \(\$ 250\) each；light
horses，\(\$ 125\) to \(\$ 175\) each；culls，\(\$ 50\) to \(\$ 75\) each．Fine saddle and carriage horses，\(\$ 175\) to \(\$ 250\) each．
Dressed Hogs．－Dressed hogs are good demand，and the market was prac－
tically unchanged． dressed hogs were taking place at 22 c ． weights，while abattoir fresh－killed stock sold at 24 c ．－
Poultry．－This market is holding very steady．Supplies were not specially large steady at 43c．to 45c．for turkeys； 35 c
to 40 c for chickens； 28 c ．to 32 c ．for fowl to 40 c ．for chickens； 28 c ．to 32 c ．for fow
33 c ．to 38 c ．for ducks；and 27 c ．to 30 c Potatoes．－The market for potatoes showed no particular disposition to
advance．Weather was favorable for handling and prices were not unreason－ so that a fair trade was going on．Car
lots of Green Mountains were quoted at \(\$ 1.65\) ，and of Quebec whites at \(\$ 1.50\) per bag of 90 liss，ex－track，with prices
more for smaller lots，ex－store． Eggs．－The tendency of prices has been
downward，though there was no great change during the week．American eggs have been reported．The latter were
said to be selling here at 40 c ．to 42 c ．per dozen．Dealers say that they have been buying from farmers in the country at
Anc．to 43 c．for straight gathered，Cana－ dian eggs，but jobbing prices in the local market were said to be from 48 c ．to 50 c ．
per dozen for new laid，and 40 c ．to 43 c ． Butter－Demand for butter continued
Bative，and as supplies were none too

\section*{WHAT IS \\ ＂Clover－Sick＂Land？}

It is over－worked，worn－out and sour land，which will not produce a good stand of clover．

What does it need ？
It needs a liberal dressing of

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Why ？
Because this lime has passed practical tests on our own farms at Caledonia，in the correction of soil sourness，etc．

It is a mixture of burnt lime and ground lime stone．It will have immediate effect，and will last for years．

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Lime combined with manure is the cheapest and best way to increase the fertility of your soil．

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Poultry for it.

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POULTRY COEANGSOL 5
AFRICAN GANDERS, INDIAN RUNNER
Pekin and Muscovy ducks, Barred Rock cock BABY CHICKS BRED TO LAY. S. C. WHITE Leghorns. Catalogue. Cooksville Poultry
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BRED-TO-SHOW LAYING STRAIN BARRED Rock eggs for hatching, Write for catalogue
Chas. Barnard, Leamington, Ont. BARRED ROCK
years. Eggs from choicest matings \(\$ 3.00\) per 15
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I offer breeding
 each of the following, varieties, Buff, Brown and
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ties, ties, three and five dollars for fifteen. The The
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Coleman Prop. CLARK'S BUFF ORPINGTONS FOR SALE-
30 strong vigorous cockerels, good type and
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 Trapnested daily for 5 years. Send forks-
F. J. Coldham. Box 12 , Kingston. 0 O. J. pair. Eggs for hatching 82.00 per setting, Apply FORTY BARRED ROCK COCKERELS
from yearly trapnested stock. Three, four and
five dollars each. W MUREBRED SINGIF CON Wilt horns. Rose Comb White Wy Wandottes. . Rred-to-
lay and prizewinning stock. Eggs \(\$ 2.50\) per fifteen REGAL DORCAS \(\frac{\text { WHITE W WYANDOTTE ES }}{\text { Americas Finest }}\) Train, winners at New York
and Boston, splendid layers of dark brown cor
and
 ROSE COMB BROWN LEGHORN to lay cockerels. extra large and very vigorous.
83.00 and \(\$ 5.00\). Also a limited number of pullets.
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sale. Utility Poultry Farm. G. (O. Aldridge, Mgr
} sale, good size. Apply James Baskerville. \(R\) R.
To. 4, Thornley, Ontario. 15. Owen Farms strain. Also hatching ceres
titer Mst March. For further particulars writ i WHITE LEGHORN COCKERELS (PFDTmyself, from heavy producers,
lock nothing else would do you WHITE LEGHORNS CHAM PI to firm, with finest creamery selling at
\(511 / 2 \mathrm{c}\). to 52 c . in solids, and about 1 c more in blocks. Fine stock run about
\(1 / 2\) c. under the above, and dairies ranged from 42 c . to 44
Cheese, - Prices were unchanged, th for No. 2, and 24c. . For No. Grain--The market for oats
very little change during the wee 2 Canadian Western were quoted at \(821 / 2 \mathrm{C}\) feed, \(781 / 2\) c.; No. 1. feed, \(741 / 2\) c.; No. 2 and No. 3 white 70 c . per bushel ex-store Barley was firm with Ontario extra No. feed at \(\$ 1.02\); No. \(3, \$ 1.01\); and Manitoba
sample grades, 94 c . per. bushel, ex-store. Flour.-Government standard Manicountry points was quoted at \(\$ 11\) per barrel, in jute, ex-track, Montreal freight,
and to city bakers, and to city bakers, with 10 c . off for spot
cash, and 10 c . to 20 c . on for smaller lots. Ontario winter wheat flour, in broken lots,
sold at \(\$ 1020\) barrel. White corn flour was \(\$ 9\) to \(\$ 9.10\) and rye flour, \(\$ 10\) per barrel in bags.
Millfeed.-Bran was quoted at \(\$ 40.25\) to \(\$ 40.50\); shorts at \(\$ 44\) to \(\$ 45\); pure grain mouile, \(\$ 64\); pure oat motile, \(\$ 60\) to \(\$\) barley med
barley feed, \(\$ 52\) to \(\$ 54\); and dairy feed at \$43 per ton, including bags.
Hay.- Business timothy sold at \$25; No. 1 l light clove
mixed, \(\$ 24 ;\) No. 2 timothy, 824 : No. mixed, \$24; No. 2 timothy, \(\$ 24\); No.
clover mixed, \(\$ 23\); and No. 3 timothy at
\$20 \(\$ 22\) per ton, ex-track.
Hay Seed- Prices
timothy at the moment to quote, bu il above prices of a year ago. The market was very strong in January, experienced is now firming again. I
grasses.- and kips, skins were 50 c c. per beef hides, 17 . flat; lamb skins advanced to \(\$ 2.75\) each horse hides, \(\$ 5\) each to \(\$ 6.50\)

\section*{Sale Dates}
- March 6, 1919. -Bruce County Bree March 12, 1919. - Irwin McMahon Hawkstone, Ont. -Shorthorns.
March 6, 1919. -Caledonia Shorthorn Breeders' Consignment Sale - Short horns. H. A. Scott, Secretary.
March 6, 1919. - Geo. E. Morden
Oakville, Ont.-Shorthorns.
March 11, 1919. - Simeon Gingrich
R. R. 1, Blair, Ont.- Jerseys.
March 12, 1919 -Perth District Hot

March 13, 1919 - London District
Holstein Breeders', London, Ont
McMillan, Sec.
March 13, 1919.-Wm. T. McCormick,
R. R. No. 1. Paris, Ont Short her
March 14, 1919.- H. B. Taylor
Mount Elvin, Ont.-Holsteins.
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) Hackneys.
March 25, 1919.-Mrs. S. A. Moore aledonia, Ont.-Shorthorns.
March 26, 1919.-Brantford Holstein
\(\qquad\)

\section*{MAKE YOUR HENS LAY NOW}

YOU want eggs to sell at these war-time prices, and you want to do your full part toward increasing the world's food supply

Speed up the laying. Get your hens in finest laying trim by feeding Dr. Hess Poultry Pan-a-ce-a. Itheips to make poult s grow.

Mating time is here. Now th to put your hens and roosters in the pink of edition. rapidly, if you want early broilers, if you want pul rapid y, if you want early broilers, inter want pulfeed the parent stock Dr. Hess Poultry Pan-a-ce-a

Remember, its the singing, scratching, indus trious hen that lays the healthy, fertile eggs the Pan-a-ce-a for results. Buy according to the size of your flock-a penny's worth for every hen to start with. A good rule for feeding is a table

The dealer from whom you buy Pan-a-ce-a will The dealer from whom you buy Pan-a-ce-a will
return every cent you pay him if it does not do what is claimed. 35 c , 85 c , and \(\$ 1.75\) packages. Dr. Hess \& Clark. Ashlani, Ohio \begin{tabular}{|l|l|}
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Getting Double and Triple the Crop with a

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trees and plants is the tree rowe crops, fruit
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"Beaver" Power Washing Machine
will wash the clothes to snowy white-
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THE GREAT-WEST LIFE ASSURANCE COMPANY
HEAD OFFICE

Gossip
The Balmedie Angus Offering. Elsewhere in these columns Thos roacioot of Fergus, Ont., is advertising bulls. These bulls of Aberdeen-Angus Pride-bred bull, Fairview Prince, by he Proud son of the noted sire of champions exceptionally successful with has home bred stuff in both Toronto and Loondon never had a stronger lot than thee younsters which make up his, present
offering. All female of this same breeding and sales' list are present herd sire, Elm Park Radithe This bull it will be remembered frst throughout the Western Fairs season by capturing and completed the ship at Toronto. He belongs to the RoseMr. Broadfoot purchased him fre Lero. bowman immediately after the shows

The Holstein Herd at Highland Lake. In this short summary of the Highland
I-ake herd of pure-bred Holstein-Finese lans, limited space has made it necessary Holstein news only. As these lines to however, it is equally worthy of notice;
being not only one of the being not only one of the largest but also and as for Mr. Burnaby the pounty, he has.as President of the United Farmer's co-operative co., already received siffiat least, with the majority of readers of these columns. Getting back again,
however, to the Holsteins, the Highland Lake herd at present numbers approxi-
mately 100 head. Included in these are others that have records running olt
the way from 20 \(30-\mathrm{lb}\). cows in their order of merit Katy Burke Korndyke comes first with
33.12 libs. of butter in 7 days and 124.64 31.92 lb .4 -year-old, follows and Daisr De Kol Hengerveld comes in third with
31.43 lbs. of butter in 7 days and 123.32 b1bs. in 30 days. Ofter in 7 days and 123.32
Mercedes Ouen of the two Simooe Mercedes Queen is eight points above
30 lbs. and Helena Pauline Korndyke only three points below. As these five
cows have all been in the herd now for some time and have all been regular
breeders there are now considentle breeders there are now considerable
of their offspring in the present sales' ists, and all are sired by May Echo Sylvias
son, Avondale Pontiac Echo, which has been Mr. Burnaty's herd sire (under
lease) for the past three seasons At case) for the past three seasons. At
present there are only, two sons of \(30-1 \mathrm{~b}\). present there are on y two sons on on or
cows listed, that are old enoug for
service but there are several others rom granddaughters of the great King Segis with records as high as 24 lbs. for three-
year-olds. These youngsters are also year-olds. These youngsters are also
all
sired by Avondale Pontiac Echo and as seen recently by a representative
of this paper they are choice, and include Time of promising herd sire material.
Time has proven that Mr. Burnaby was Time has proven that Mr. Burnaby was
extremely fortunate when he contracted
for for the services of Avondale Pontiac
Fcho Echo. During his three years in service
in the herd he has left a great impression in the herd he has left a great impression
and the problem of replacing him with a bull which will be sufficiently strong
to warrant the mating with his daughters will prove to be "no easy task for the
management at "Highland Lake." Mr. Burnaby reports that he finds the demand
or well Ior well-bred stuff, especiany in lev of
unusually strong. Following are fer of
Fore A 6 -months son of Avondale Pontiac Echo to G. A. Hogg, Thamesford. The two
nearest dams of this calf average 869 bss. of milk for 7 days or 131 libs. for orne day.
Vatson McClusky, of Orangeville, tookk another son, a 12 months bull, his dam being Nannett Topsy Clothilda, Canada's
first 30 - lb . cow. Thos. A. Barron, of Brantford, selected a 12 months son of
Sir Lyons Segis the 33-lb.-bred son of
 wall, received a 6 -month youngster with
each tam in his pedigree carrying an
official official yearly record. Trate in temales.
has also lheen fair, orders having come from several outside provinces during
he past six months. N. J. Jarvis and J. Pugh, two New Brunswick breeders


Nowhere on the farm is the use of Concrete more vital than in the Cow-barn
\(T \mathrm{~N}\) concrete you will find your
ing. Warm, dry and sanitary surroundings are essential to the health of the cows-and healthy cows are the first requisite in a dairy farm-for on the health of the animals must depend the flow of milk. So it is not remarkable to find our Canadian farmers rapidlyi replacing such wooden barn interiors as still exist, with concrete floors and mangers and modern stalls.
Concrete-now rightly given first place among available materials for all sorts of farm construction-is absolutely essential to a barn interior.


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ial affording proper sanitation and cleanliness-the only one that can be easily and thoroughly cleaned.
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work-barn drainago -ventilation -lighting-strength of material
- framing-roof construction
If you expect to build or remodel wrill save you worry-lime-
\(\left.\begin{array}{l}\text { worney }\end{array}\right]\) Tho
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…... Calves,
Calves ............. prefer to deal through
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p.O.

Red Clover. 72 Oats and Beans


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W. H. C. Ruthen, Alliston, Ont., R. R. No. 2
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Recommendation Pre sented at Poultry Conference.
At the poultry conference held in
Ottawa"on"February 18 and 19 , a numbe Ottawa.on.February 18 and 19 , a number
of recommendations were drafted to be of recommendations were drafted to be
presented to the Government. These presented to the Government. These
recommendations dea:t with matters recommendations dea.t with matters
affecting poultry diseases, boys and girls
clubs rear clubs, record of periormance work,
etc. A full report of the meting appeared in last week's issue of The Farmer' Advocate, and in this issue we give the
recommendations as submitted to the ecommendations as submmittees.
meeting by the various commin Early in the Conference thirteen com mirtees were appointed to bring in recom
mindations respecting various aspects of the industry. These committees reported on Thursday and part of the
recommendations finally made by the conference as a whole are given below. mittecs lasted nearly all day

National Poultry Council. "I. That the Provincial Associations be formed into a Canadian Poultry
Association to be known as "The Nationat
 Poultry Councli with the object
stimulate, encourage and develop: The Co-operation of all Poultry Breeders; (b) The Production of all Poultry Pro-
ducts: (c) The obtaining (d) The encouragement of Exportation; (e) The dessemination of practical inTormation concerning the Industry. And
all other matters conducive to the advancement of the Poultry Industry.
"'2. That the Provinces, not now
organized shall without delay form
 "3. That the Cou ncil shall have powe
to embrace and to give representatio to other National organizaztions formed
to encourage the objects of this Associa
tien "4. That the Council shall consist
of one menter from each Province.
"5. That the Council shall be by P President, two tive-presidents, one
from Manitoba and WWest and one from
Ontario and East elected from the Ontario and East elected from th
members of the council in annual con
vention. A Secretary-Treasuer, or both vention also be appointed at the annua
shaeting
mecreatare "6. That this Con ference shall appoint
forthwith a provisional council to hold
offle
 representatives or until the next annual
meeting to be held by and at the expense
of the Federal Department of Agriculture;
and that such council shall elect and anpoint the Provincial Officers of the As
sociation. "7. That we further recommend that
this conference request the Federal
Govenment to appropriate the sum of
\(\$ 1000,00\) for the organization expenses of this association.
". That the Provincial Officers shall
prepare and submit to the next annula meeting, a draft constitution and working
by laws for this Association.
"9 That the association recognized
by the Provincial Department be the
association represented. That the Do-
minion Poult Hos. minion Poultry Husbandman and the
Chief of the Poultry Division of the
Live Stock Branch be ehe representatives
from the Fedleral Department on the



 Coluand:
Rhoades.


\section*{The Savings Bank Pays 4\%}
ank account is a splendid thing, but if you invecs and have no silo you will find that a few dollars turns than the same amount put into the bank. The average savings bank pays \(31 / 2\) or \(4 \%\)
An IDEAL GREEN FEED SILO

\section*{will pay \(100 \%\)}

A prominent dairy authority says that a silo is worth its entire cost if it is used for only one year. The life of an wonder farmers are finding the Silo profitable? Is it any Practically one-third of the feeding value of yo Practically one-third of the feeding value of your corn crop is lost when fodder is allowed to dry. An IDEAL will not
only save all the nutritive elements of the fresh, green corn but will convert into rich, juicy, milk-producing feed corn, stalks that cattle can not otherwise eat up clean. It reduces feed bills; means more milk, healthier cattle and less labor in feeding.

Write tod
explaing j
Write today for a catalogue. It shows you every detail of the IDEAL and
explaing just why you cet in it more for your money than in any other silo.
\begin{tabular}{|c|c|}
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\hline IDEAL &  \\
\hline GREEN &  \\
\hline FEED & \\
\hline & \\
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CHEAPER THAN A WHIP AND BETTER FOR YOUR HORSES


\section*{NORTHERN ONTARIO}
\begin{tabular}{|c|c|c|}
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On Sit Where You Always Sat


\section*{UNIVERSAL TRACTOR
It Solves Whe Earm हicln problem}


OU wouldn't think of riding on the
beck of one of your horses while at
work in order to guide your team. If you did you would require another person to operate the implement, because mplements require constant attention.
Then why attempt to operate a tractor Then why attempt to operate a tractor tn a manner which your experience has
proven impractical?
It is is just as illogical proven impractical? it is just as illogical mene and expect to operate the implemens from that position as it is to operate the implement from the back of your horse.
 Sumeso vith the ordinarat tractor, To do the Wher thotrages thie in o tremendour hand.


Just Like Driving Horses
With the Moline-Universal Tractor you air on the seat of the implement and and tractor. You are in the best position to observe the work, make adjustmentes and manipulate both tractor and tmplement. This holds true regardless
of the work being done-plowing, disc-


upusaiol power, and is economical in
operation. It is conservatively rated at 9-18 H. P. Oil is forced to crankshaft
bearings under 35 lbs presure bearings uncer 35 ibs. pressure. Gears
are steel cut, drop forged, and thear are steel cult drop forged, and hear
treated. All shatts are splined. Every treated. All sharts are spined. Every
working part is easy to get at, and every
moving part is enclosed. moving part is enclosed.

Valuable Information for You Our catalog tells how you can operate
your farm with less help and expense by ysing a Moline-Universal Tractor. A post card will bring the catalog to you.
Since 1865 we have been making farm Since 865 we have been making farm
machinery, and now offer a complete line machinery, and now offer a completet line
of both tractor and horse drawn implements. Information on any of the Moline
implements listed below will be gladly implements listed below will be gladly
furnished on request
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ddress De
Canadian Distributors:
Willys - Overland, Limited
West Toronto
Manufactured by:
Moline Plow Co., Moline, 111
There is nothing new about this, simply apply a principle which millions of The Mave demonstrated to be sound. control of greater rowser give one mal with horses, with the same method of handling and as much versatility. With more land Mniversal one man can farm to control than one horse and capable of
doing the work of trom 6 to

\section*{Works Day and Night} The One-Man feature is just one of
many advantages the Moline-Universal
has over other tractors. It is the only has over other tractors. It is the only
tractor which will do all farm work, Including cultivating. It is the only tractor
regularly regularly equipped with self starter and
electric lights. Non-robust labor can electric lights. Non-robust labor can and it can be worked day and night. No detail has been overlooked to give the
new Moline-Universal Model D Tractor positive reliability. The perfected, over-
head-valve 4 cylinder engine develops


March 6, 1919
Questions and Answers. We"The Fustions asked byy bona-fide subscribers



 Miscellaneous.

\section*{Rape-Millet.}

I am desirous of sowing, for July lecding, loa acres of in ine. . good state of
gravelly
oum and cultivation. What is the best method of
gren preparing this field for rape? What time
should the seed be sown, and how should it be sown?
2. What is the best kind of millet to sow to be cut and cured for hay? How
is the seed sown? Ans. -1 . Thorough cultivation to put
the soil in good tith is about all the the soirtion necessary. If the soil were anyway porr, manure might be cultivated
in. For July feeding, the seed should be in. For July feeding, the seed should be
sown early in May and we believe you sown
would get the best crop by sowing in rows on the level. This may be done with
the seed drill by attaching the tubes the seed drill by attaching the tubes
to the spouts of the grass-seed box, and plugging the spouts you do not use. romin 2 to \(21 / 2\) lbs. of seed per acre is
sufficient when sowing in drills 28 inches
 advantage of sowing in rows is that it permits of cultivation which materially
hellps the rape and cleans the soil 1helps the rhe Japanese Pannacle with another gives the best yield of hay. It may be sown around the first of Juane,
and can be drilled in or sown broadcast and can be drilled in or sown broadcast.
If sowing much later than the first of June, Hungarian Grass, which is a June, Hungarian Grass, which is a
variety of millet, will possibl be found
to give the most satisfartory results. Ration For Hens.
My flock of thirty-six hens was doing,
very well until a week ago, when one them became sick and died in a short timə. six others sickened and moped around,
with heads drawn close to their bodies. They have no appetite; otherwise they
appear all right. The ration consists of dry mash before them all the time. In
the morning \(31 / 2\) quarts of mixed wheat oats and barley, at noon, a wet mash
and at night 3 quarts of the grain mixt The birds have plenty of green feed, and and skim-milk to drink. What is the matter with them and what is a remedy?
Am I feeding them a proper ration Ans. - Your correspondent does not say What the dry mash consists or. Such
condition as described may be caused
by the wes of ton mash. Ase far too much salt in the dry is concerned there is nothing in it which
would cause the trouble. Such a condition
is ventilation in the house, the the lack of coming musty or damp, and the general case the birds would pamp, in which more or less cold. In any event 1 would
advise giving the birds a good dose of
antloc each, and the well ones one a pounspono one
hundred birds. You could dissolve this in water and mix in a mash. Give this
every ten daxy. Clean the house and the
straw on the for dry

\section*{Gossip}

Chotce Buls in the Glencairn Herd. Attention is here directed to the special
offering in young Ayrshire bulls advertised elsewhere in in these columns by
Thos. Thos. J. McCorrnick of Glencairn Farm,
Copetown is one of the oldest and mostarn wherd
known herds in the the selecting b bulls or frovince and breeders
stables will find their offering in these
spod stables will find their offering in good
demand. of the several buls offered
athen at present all are frome cood record R. O.P.
dams and sireel lyy the noted Glencairn
 McCormick states that as individuals
they compare favorably with the best
they have they have evere treed and also that he is
offering then ther trics that should move
them out favil them out fat. There is the usual ofore-
ing in femal.
suaranteed to.
site

THE FARMER'S ADVOCATE

\section*{SHERWIN-WILHANS HSECTICIDES}

\author{
KILL ALL THE BUGS THIS YEAR
}

There is no use experimenting with insecticides which may or may not do the worko
Don't take chances. Use SHERWIN-WILLAMS Insecticides. Every ounce, every grain of Don't take chances. Use SHERWIN-WILLIAMS Insecticides Every ounce, every grain of
SHERWIN-WILLIAMS Insecticides contains death for the bugs and the larvae. And to make a clean job of it, use them thoroughly. Whether it's San Jose Scale or Tussock moth, or the potato bug or the tomacco worm, or the bug that gets into the roots of the peach trees,
they never fail. Read the following list-and use all required for each particular purpose,
S.W Dry Powdered Arsenate of Lead

Never freezes or evaporates. Lasts for years. \(1-\mathrm{lb}\). equals 2 lbs of paste.
S-IW New Process Arsenate of Lead, in paste
Cannot burn or hurt the tenderest foliage.
Berger's Pure Paris Green-for Potato Bugs.
Canada's standard for years-in every way up to Government standard. Certain death to potato bugs.
S-W Calpoiso-Arsenate of Lime
dry powder to use with lime, sulphur or Bordeaux Mixture
S-W Dry Lime Sulfur
A powder to mix with water. Obviates leakage. Can be kept from year to year.
No water in it to pay freight on.
S-W Insecto
A combination of Arsenate of Lead and Bordeaux Mixture for spraying orchard and
-W Tuber Tonic
Kills both bug and fungus on Potatoes
We have a booklet called "The Spraying Giide". Full of useful information. We
would be glad to send it to you, also to answer any questions in regard to our materiale. Write us to-day
THE SHERWIN - WILLIAMS CO. OF CANADA, LIMITEC,
897 Centre St., Montreal, Que., 110 Sutherland Ave., 39


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If considd ing d daining yuur farmoro or orhard, we can supply all sizes, best quality,
Hard Burne Clay Tile and will suarantee prompt shipment. Write or
NATCO IMPERISHABLE SILO
lasts for generations.
NATIONAL FIRE PROOFING COMPANY OF CANADA, LIMITED
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We pay the freight on all orders
\(\$ 25.00\) or over east of Manitoba GOVERNMENT STANDARD

 No. 1 Alfalfa (Nor thern Grown).
White Blossom Sweet Clover).
Mixed Timothy and Alsike, Terms: Cash with order. Bags extra,
at 65c. ecan Ask for bamples if necesreturn at our expense.

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SEEDS
Satisfaction Assured
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 TURNITPS-si.50 per ib. If you reaure anything in the feed
line, whether for your live stocclo or
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bovercuurt mond. - tomaito


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\section*{Before Spring Work}



 MESSRS. A. J. HICKMAN \& CO. Halse Grange Ereerackey, England (late of Exporters of all breeds of stock, draft horses, beef
Catte and stow and fiel shoee are specialties.
You can buy

 Dr. Bell's Veterlnary Medical Wonder 10,000
S1.00 bottues FREE to
horsemen who sive the


 Stallions-1 vearling
CLES For Sale



\section*{FOR SALE}

Tram. agricultural coltst rising 2 and 3 years prize
winners. For particulars apply to. todstock, Ont.
A. Murchison - Woodst.
Patent Solicitors \({ }^{-\quad \text { Fetherstonhaugh \& }}\) Co
 Omace: 5 Elikin
Oooklet
Free.

Questions and Answers. Veterinary

Epithelial Excresence Hanging by a cord like substance from
the abdomen of about the size of a hens egg, but flatter. It is simply attached to the skin and
swings about.
G. A. F.
This is of \(t\)
off close to the skin and a wart. Clip it surface 3 times daily until healed with a 5 -per-cent. solution of carbolic acid. V. String Halt
then she has had a hitch in her hind legs. Sometimes she appears all right and at
other times she suddenly lifts them upwards and outwards with a jerk

Ans.-This is a form of chorea, called
"String Halt". Medical treatment is succesful. An operation by a veterinarian which consists in severing, or
removing part of a tendon in the hock, removing part of a tendon in the hock,
efffects a cure in a reasonable percentage effects a cure in a reasonable percentage V.
of cases.
Stiff in One Leg-Excrement Too Dry. 1. Cow has been stiff in one hind leg
since last fall. She stens light and does not seem to put any weight upon
the toe. Cannot find anything the toe. Cannot find anything wrong
with the foot.
2. My young cattle have free access
to salt and are fed on timothy hay straw and roots. They seem healthy
but their excrement is too dry. Ans.-1. While it is not possible to
diagnose definitely without a persona examination, the symptoms given in-
dicate chronic disease of the hip joint.
It is not It it int prot probable that treatment would
be effective. All that can to ton allow nature an opportunity to cure, and
if no improvement be noticed in a few
ons months it will probably be wise to fit her
for the block. As our diagnosiso be correct it might be profitable to have
your veterinarian examine her your veterinarian examine her.
2. There is evidently no disease Feeding some bran and linseed meal
and a larger amount of roots should
correct Enlarged Glands-Liniment.

Enlarged Glands-Liniment.
Some time ago my mare commene to cough in the stable, and sometime
when she was out. The glands throat, one on each side, became en-
larged. Sometimes they are larger than manipulation.
2.
Give prescription for a good liniment to rub on a horses's throat, one tha
will not destroyathe hair roots. W. . F. Ans. -1 . Your mare had an attack
of laryngitis, which resulted in enlarge
ment of the thyr ment of the thyroid gland. This gland
is composed of 2 lobes connected by an
isthmus, onelobeon is still, enlarged rub well once daily with an ointment made of 2 drams each o
iodine and iodide of potassium mixed
with 2 or vaseline 2. One part liquuor ammonia fortier
and 4 parts each of oil of turpentine and raw linseed oil. If the mare still coughs
rub her throat with this twice daily daily until the cought ceases, 2 drams
dins and chlorate of potassium and 30 grains of
quinine.

\section*{Gossip.}

In order to make room in the stable
for the spring crop of calves which are
coming on, a number of cows and heifer coming on, a number of cowes and heifers
on Weldwood Farm are priced for quick sale. Most of these have been bred to Chieftain, whose dam has a recorntoot of Lady, has a record of 10,681 lss. milk.
His calves are turning out well females offered are of the Beauty, Miss
Syume and I lily foll Sows have records up to 9,000 lhs. in a
lactation and there are daughters of to s.000 ths If If wishing to secure females
with good Shorthorn conformation that are good milkers, they can be secured
at Weldwood F Farm. During which are thrifty and doing weeks



them-and you have a collar that puts an end
plished in thet's just what has been accom-

\section*{MOMCNOLCO}

Absorbs Sweat
 Boz 19 THE POWERS MrG. Co., Open at the Throat





\section*{IMPORTANT DISPERSAL SALE}

\section*{Senator Robert Beith, Bowmanville}

Thursday, March 20th

\section*{Clydesdales ano Hackneys}

 Write for catalogue at once to
Senator Robert Beith, Bowmanville, Ontario
Toronto, will conduct the sele Sows Yards

Cairnbrogie Clydesdales STILL TO THE FORE

Imported and home-bred stallions and mares of the highest quality and individuality Sur record at the leading shows of America or sale males should be pleased to hear from prospective

GRAHAM BROS., (Cairnbrogie,)Claremont, Ont.
Clydesdales and Percherons collection I have ever had at any one time of prize winners and champions, all for
sale at prices second to none T. H. HASSARD Open at the Throat





 In der

RSAL SALE

\section*{owmanville} am, Bownan vilie onterem

\section*{h 20th}

Hackneys
(Imp.) "Baron's Bet", (13930)s
Clydesdale sire of anl. ", "aron)
Corted and Canadian-bred mare


tanville, Ontario

ddesdales
ORE


\section*{rcherons}
 markham, ont.

\section*{FIRST CALL!}

A FIRST-CLASS BILL-OF-FARE IS PRESENTED IN THE OFFERING OF Western Ontario Shorthorns


HARRY SMITH, Sales Manager

\section*{London, Wednesday, March 26th}

In the bull offering of twenty-six head is listed a number of real herd sire prospects in imported and home-bred bulls

The 65 cows and heifers include many real tops, and are of such standard sorts as Victoria, Lancaster, Broadhooks, Nonpareil, Miss Ramsden, Roan Lady, Missie, Mina and others.

Several cows with calves at foot. An extra lot of young cows and heifers that are in calf, and a splendid string of open heifers.

We stand behind the stock we offer with a liberal guarantee. Write:

For catalogue, and arrange your plans to be with us sale day

\section*{Hay, Ontario} SALE at fair grounds

\author{
LUNCH AT NOON
}

Questions and Answers. Miscellaneous.
Fencing Against Hogs, etc Has a farmer to keep up his line fence
o fence against hogs and sheep? Ontario \(\begin{aligned} & \text { Ans }-N o\end{aligned}\) Ans.-No, that is to say, the owner of
any animal not permitted any animal not permitted to run at
large by the by-laws of the municipality
is arre by the by-laws of the municipality
is liable for any damage done by such
nimal alth animal, although the fence enclosing the
premises of the complainant was the height required by such by-laws.
But, of course, the farmer pulled by the the, owne farmer may be com-
bis farm adjoining just proportion of the line and repair his them, and such adjoining owner may call
in the local fence viewers to arbitrate
in award, incidentand they might by their to provide fencing suitable to the purpose
mentioned What would it it Silo.
silio 30 feet high and 12 feet wide? silage freeze as hard in a cement sil Does of a barn one? If a silo was built insinte frezaing? Would it prevent the silage from
ingide? Ans.-A sil A. H . of cement to 8 -inch wall, and using one 30 cubic to eight of gravel, would require barrels of yards of gravel and \(251 / 2\)
the eement. We cannot give your varexact cost as the price of ot this material
varies in different you cheaper in some places than in others.
Knowing the quired, you will he tity of material recost at the price of this material in your
district. Some fore fit for buildine contractors have an outwill possibly frecze a for the job. Silage ment silo than in the wooden one, althe ce-
we have not our own farm. If noticed much difference on tertion, it would certainly be a pro will take co chief objection is a pros that
stable and onsiderable space both it it the do without this. If vou can afford to if not, it is advisable to build outside good;

\section*{Brant County Holsteins}

Eighth Annual Sale
hunt and COULTER Feed stables
Brantford, Ontario, March 26th


50 HEAD
46 FEMALES
Every female of breeding age will be fresh or due to freshen within six weeks of sale day

Every animal has been inspected by a special committee and passed as sound before being accepted. Every bull catalogued has the best of official backing.

We have never been able to offer our customers as choice a lot of guaranteed cattle as we have listed for this sale. We are will be to make hy expansion year and feel that our efforts day worth while a day worth while
N. P. SAGER, St. George, Secretary of Sale,

Ontario

Questions and Answers
Veterinary.

\section*{Contractod Foot.}
1. The right fore foot of 5 -year-old driving mare is contracted. 2. She has been standing on cement would that cause it? M. S. appeared a cure may be effected yet
encouraging the can best be done by blistering the coronet If this can be Thisen entails a long rest 2 drams each of biniodide of made of and cantharides mixed with 2 oz vercury Clip the hair off all around the hoof for bite thes high. Tie so that she cannot In 24 hours rub well again longer apply sweet oil. Turn loose in a box stall now and oil every day until blister again comes off. Then tie up and blister again, and atcer this blister once or the hoof has grown to norme rest Where rest cannot be given the grize, of horn can be encouraged by applying water regularly by packing the sole every moisture. The best material will retain purpose is a clay or rock that in by most high-class harness dealers. of an irritant application to the coronet to 1 oz. vaseline will be beneficial whates rest cannot be given. This should not but applied often enough to really blister tion and if doy often to keep up an irritamare be valuable it necessiate rest. If the to give her a few months rest as above as it is probable that if present conditions ly lame. 2. This tends to cause the trouble, probably other causes
driving driving on hard roadses operating, as
of moisture to the general lack one foot is normally, weaker than its.
fellow and this wold fellow and this would wexker than its
and not others should suffer why it
conditions


Secure More Milk From Your Herd You can increase the flow of milk from 3
to 5 Ibs, a day by husing
"Royal Purple" Stock Specific Mr. Norman G. Charlton, Scott, Sask. states: Purple Stom from Ontario and fed your Royal My cows made the when in Bowmanville. tested 5 pounds over average at G.M.P Brownsville. I believe you make the best
conditioner on the market," The great farm The great farm animal conditioner and fat stock-raiser's stable in Canada. \({ }^{\text {a }}\) Good for all stock in a run-down condition. Can be used occasionally or continually without showing bad after-effects. Royal Purple
Stock Specific is purely a digester and blood Stock Specific is purely a digester and blood
purifier. It aids digestion to such an extent purifier. It aids digestion to such an extent
as to produce the very best results, and as to produce the very best results, and
obtain the maximum amount of good from the food eaten. It will enable you to fatten your steers and hogs a month earlier, thereby
saving a month's feed and labor. Roval saving a month's feed and labor. Royal
Purple Stock Specifio is put up in 60 c. packages and large \(\$ 1.75\) and \(\$ 6.00\) tins. Sect our products from our dealer in your town.


The W. A. Jenkins Manufacturing Company


"Royal Purple" Lice Killer

\section*{Cross Croek N.B} Lice Killer on a a cow that was bavely yind yousted W. L. Carryle, Reids sills, Ont.



Try it, Mr. Farmer, and see for your-
self. Secure "Royal Purple" Lice Killer
from our dealer in your town. Should there

LONDON, CANADA
"Royal Purple" Calf Meal Reduces the
Cost of Feeding Calves 75\%

When calves are 3 or 4 days old they can be fed Royal Purple Calf Meal and raised just as well without one drop of milk.

Mr. Geo. W. Collins, Plainfield, Ont., writes: "Gentlemen-In regard to your Call Meal, I think you have the best on the mar ket, as people who have bought it give off sweet milk, and fed them nothing but your Calf Meal and water, and say they are
doing, well on it as they did on the whole

This Baby Food for young animals is partially predigested, and can be fed to the youngest animals with perfect safety. II
WILL NOT cause stomach or bowel trouble, which seriously affects the health of young animals, Royal Purple being a sure preventive for scouring.
Royal Purple Calf Meal is equally good for young colts, lambs and young pigs. Put up in \(25-\mathrm{lb} ., 50-\mathrm{lb}\), and \(100-\mathrm{lb}\). ba
it from our dealer in your town.
 Royal Purple Cough Cure for horses, 60c tins.
Royal Purles.
Royal Purple Liniment for man or beast, 60 C botles. Royal Purple Disinfectant, \(30 \mathrm{c}, 60 \mathrm{c}\), \(\$ 1.15\) tins.
Roy 1 Purple Worm Powder for animals, 30 c packages
Royal Purple Royal Purple Roup Cure, 30 ctins.
Royal Purple Colic Cure, \(\$ 1.15\) botle

The W. A. Jenkins Mfg. Co., London, Canada.
Penteman:
Please send us your Free 80-page booklet 'escribing all common
aiseases of stock and poultry and telling how to build henhouses, ,

\section*{ULTRY CIFICS}

\section*{気而}

\section*{cost}


Purple" Calf Reduces the of Feeding lves 75\%
s are 3 or 4 days old they can
Purple Calf Meal and raised thout one drop of milk.

Teennelworth Farm Angus Bulls The etrongest offiring we ever had, all are sired
bo Victo of Clencairn and a number are ready
for service. Prices reasonable.
Peter A. Tho

\section*{AbERDEEN-ANGUS}

THE BEST LINIMENT
 Caustic Balsam
 Hurlet Cono
 We matil say to alithes Backache
Neuralgia
Sprains Lumbage Diphtheria Sore Lungs -


Deafness

THE FARMER'S ADVOCATE

\section*{Raise More Live Stock}

AND
Increase Your Prosperity
This is the opportunity of the farmers of Canada. The depleted herds of Europe insure a profitable market for years to come. The lower the cost of production, ' the greater your profits. Because of the low cost of the land there is a splended opportunity in the Prairie Provinces to raise all kind of live stock most economically.

THE CANADIAN PACIFIC RAILWAY has thousands of acres of fertile land, suitable for mixed farming and live
stock raising, for sale at low prices and on easy terms. Land that will


ALLAN CAMERON grow grain, and fodder crops of various
kinds may be had at from \(\$ 11\) to \(\$ 30\) an acre. Only one-tenth down and- twenty

\section*{IRRIGABLE FARMLANDS}
capable of producing large crops of wheat and other grains, alfalfa and all kirds of fodders, beets, potatoes, tomatoes, maximum number of live stock or sale \(\$ 50\) an acre, rights. rights. One-tenth eash and twenty years to pay balance. Loan of \(\$ 2,000\) or buildings, fencing, etc., on these lands. Write now for free booklets containing

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LADUE NORWOOD, C.P.R. Land Agent, Windeor Station, Montreal, Que.
Aberdeen-Angus 52; Herefords 6; Shorthorns 5;


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\section*{ELM PARK ABERDEEN-ANGUS}
redam offering a complete rraded show herd, alto buls and femalee of different asee, ben sood JAMES BOWMAN, Elm Park, Guelph, Ont.

LARKIN FARMS Queenston, Ontario ABERDEEN ANGUS and JERSEY CATTLE SHROPSHIRE and SOUTHDOWN SHEEP Correspondence and Inspection Invited (Please mention "Farmer's Advocate")
\[
\begin{aligned}
& \text { WRITE FOR FREE PUBLICATION }
\end{aligned}
\]
OMOBHAORNS
THE BREED FOR FARM OR RANCH
INION SHORTHORN BREEDERS' ASSOCIATION
Brookiin, Ont C. E. DAY, Soch,

6 BULLS BY ESCANNA FAVORITE



Robert Miller, Stouffille, Ont.

Shorthorns Landed Home \({ }^{-\mathrm{My}}\) last importation of 60 head landed at \(\mathrm{m}_{\mathrm{y}}\)



Creekside Scotch Shorthorn Heifers
 Ask the man who Owns some and BUY an ABERDEEN-ANGUS BULL!

sown to the acre? What time should and what is the can they be hought Ans,-1. If the land is fairly level,
it might be safe to sow oats or mixed grain. If the land is still rough, a crop
of corn might be grown, or the field might
be cultivated and put in to rape for
2. Wireworms and grubs are not so
liable to affect the pea crop as some of the other crops. At the Ontario Agricultura
College the Early Britain has given the largest yield. The Canadian Beauty and Potter varieties are also good yielders
These varieties may be affected by the if possible from a district not affected by the weevil. If there is any danger
the seed might be treated. Peas may be now soor \(21 /\) to \(^{2} 3\) bushels is a fai seeding, depending upon the size of the
peas; if you were sowing the Marrowfats more seed would have to be sown per acre,
We do not know where seed can be purchased just at present. It is a crop Which is not grown dealer dces not have any on hand, advertising in these columns may have a supply, or if you would place a small
ad. in our columns you would undoubtedly get in touch with someone having pasas

Ringworm-Sweet Clover. on cattle?
2. I have a farm of 150 acres and keep
15 cows. There are two men to do the work. With 16 acres of lucerne and 10 would be able to handle 14 acres of sweet clover in the summer of 1920, if we
sowed the sweet clover on wheat this spring?
to cure the ringworm, but we find that greasing the spots with sweet oil to
soften the scales and then painting with iodine is the best remedy. It is ad-
visable to isolate the diseased animals from the healthy ones in order to prevent
the disease from spreading. Care must also be exercised in treating animalse
affected with ringworm, as the disease affected with ringworm, as the diseas
may affect the attendant.
2. It is quite possible that two men
would be able to handle the amount of hay mentioned. The sweet clover would week or ten days before the lucerne, and the lucerne about about growing sweet clover for hay.
There is sometimes difficulty in getting it cured, owing to it having to be cut sweet clover hay all right, but we believe crop: On our own farm we have good
results with it as a pasture, and have
talked with a number of farmers who

Questions and Answers.
Propelling Auto by Electricity. 1. Can an automobile be propelled
along by electricity in the following manrunning a generator by, belt or silent run motor and and chargeugh batery. ectricity to battery
ro start and therefore be supplied from generato car. necessary to run motor and keep battery 3. What size of battery would be
necessary? pelled in the manner you mention because such a system would be nothing
more of less than perpetual motion. charged for every 30 to 50 miles of travel.

What crop would you advise putting spring and put in to was broken up last spring and put in to corn?
2: Will the wireworm or grub hurt pea crop? What variety of peas do best on well-drained land? Do the bugs
bother them? How much seed should be
\begin{tabular}{|c|c|}
\hline pringfield Farm Angus & also be exercised in treating animals affected with ringworm, as the disease \\
\hline Mave six bulls from 8 to 15 months. All ilired & may affect the atten \\
\hline  & 2. It is quite possible that two men \\
\hline reafly bred & d \\
\hline Kenneth C. Quarrie, Bellwood, Ont. R.R. No. 5. Bellwood. C.P.R.; Fergus, G.T.R. Bell Phood C.P.R.R.; Fergus, G.T.R & of necessity have to be cut possibly a week or ten days before the fucerne, and
the lucerne about the same length of \\
\hline & lucerne satisfactorily, we would hesitate \\
\hline \(t\) offcring we ever had all are sired & about growing, sweet clover for hay. \\
\hline bor vervice of Glencairn and a number are ready & There is sometimes difficulty in getting \\
\hline Thomson \({ }^{\text {easonable. }}\) Hullsburg, Ont. &  \\
\hline & \\
\hline & crop: On our own farm we have good \\
\hline & d have \\
\hline & ed with a number of farmers who \\
\hline
\end{tabular}

\footnotetext{
have \(\sin\) ud
}

\section*{For High-class Breeding Shorthorns}

Paris, Ontario, Thursday, March 13th, 1919


\section*{THIRTY HEAD}

Breeders wishing to obtain choice breeding Shorthorns will find it to their advantage to attend this sale. Individually or collec tively, they compare favorably with the best ever catalogued for
a small sale in Ontario. All are selling in excellent condition, and the majority carry fashionable pedigrees. Of the thirty, eleve are breeding cows, three are bred heifers, and with the herd sire the remaining numbers are made up of yearlings and 1918 calves. Shore

NOTE.-The majority of the cows in, his herd hering is guaranteed to please
NOTE. -The majorily of the cows in this herd have always been milked by hand.
Several have gioen as high as 55 lbs. of milh per day on twice-a-day milk ing.
WRYTE FOR CATALOGUE
As the farm has been leased for a term of years, there will be absolutely no reserve on anything offered. In addition
to the pure-breds there are 22 two-year-old steers and heifers; 8 horses (one matched span of Percheron mares 6 then to the pure-breds there are 22 two-year-old steers and heifers; 8 horses (one matched span of Percheron mares. 6 years
old), one matched Clydesdale teamm; one Belgian mare and two geldings (all grades). Also a quantity of hay and
grain. Usual terms. Apply:
WM. T. McCORMICK,
Sale at the farm, one
mile east of town limits
PARIS, ONTARIO


Mardella Shorthorns


 Mhoo. Graham, R. R. No. 3, Port Perry, Ont. SPRUCEDALE
Shorthorns and Berkshires

 Frank Teasdale

\section*{SHORTHORNS}

Present offering, 8 choice young bulls and a few
females, their dam are good milkers and beet of
of
Stewart M. Graham, Lindsay, Ontario
Evergreen Hill Farm
R.O.P. SHORTHORNS Ofering two bulls 12 months old by St Clare,
R.O.P. No. . . s. WW. Jackeon. Woodstock, Ont.


 Shorthorns and Clydegalaes- We
ber or Shorthorn nuls which are pur

 Shorthorn Bulls
viceable age, Sired by the imp. buil Donser
Prince 101809 .
Graham's Dairy Shorthorrns
 Charles Graham, Sortiction Suaranteded Porry, On

\section*{20 Females 5 Bulls \\ Dispersion Sale of Scotch Shorthorns} WEDNESDAY, MARCH 12th, 1919

\author{

}
 notes bearing interest at at \(6 \%\). IRWIN McMAHON write for catalogue.

Beach Ridge Shorthorns and Yorkshires


 PRITCHARD BROS., R.R. No. 1, Elora, Ont




PEART BROTHERS SHORTHORNS
 SHORTHORNS and CLYDFSDAIFS R.R No. 3 .
 SPRUCL CITN Glanford, Sta.R... 3 SPRUCE GLEN FARM SHORTHORNS Spring Valley Shorthorms \({ }^{- \text {Herd }}\) beaded by sea dundle, ontario


 opped Shorthorns-w




The Prese ada's Greatest - Can
No person who contemplates affair It is true, as the optimist sanguine. we have a great country confronted by
unparallelled unthinking optimism whet there is an take into consideration the ments to dangers facing us as a people at this hoir that the Bolshevist is eyes to the facd his propaganda; that the extreme Socilist have captured the leadership of then that to the ranks of the latter are foctin all the elements of social discontitent
in our centres of they are prep of population; and that In other words among certain elemea. the revolutionary consciousness is it and it is embodying itself in well-kit organization.
larming, mendous possibilities. In any case the outlook is ominous.
my mind I harning the thing over in of these possibilties.
evolutionary there is the menace of the will crystry consciousness. That this 1 do not believe probable, though \(I\) do believe it possible. There are not wanting
those leaders who secretly and openly advocate it, and who would seize any
acute labor situation for revolt. For example, a a general strike is by no means beyond the stretch
of improbability, Supose it should to a clash with the constituted autionotites imagination? One does not need a vivid Secondly, there is the actual prestionce within the industrial ife of Candity Leaving aside what may be the attitude of manufacturers and employers, labor is
watchful and distrustful. Furthermore effect is this likely to have upor industina development so essential in the period of reconstruction? It cannot help but
retard it retard it. Capital will be chary in
engaging upon new enterprises engaging upon new enterprises. forms. It will tend to fow
will be cautious. to other fields where there is less unnrest aguch can be found. This will but
aggravete the situation, for it will lead
to unemploy to unemployment not only for the
workers now in Canada, but for the soldiers who are returning in increasing
numbers numbers. Nor will this be without its
reaction upon agricultural life Theri is reaction upon agricultural life. There is
a close relation between the prosperity of the cities and the country communities. Where one suffers the other suffers also. The result would be not only retaration of fuel to the fres of discontent. Just as famine lends itself to anarchy, so does anemployment lend itself to the spirit
of revolution of revolution. Thus the returned men
and the workers might be led to make common cause. In fact, there are not wanting those who are hoping that such
a combination might take place; and in a combination might take place; and in
considering this possibility we cannot be blind to the fact that the soldier saz ments of force for the achievement of certain ends. Thirdly, we cannot be unaware of the fact that there are genuine grievancest
behind all this ferment and unrest For large numbers the incteasing cosi of living has more than outdistanced the
increase in income, and every increase increase in income, and every increaty
in wages of the worker has been prompty
met by increase in the price of esenential nommodities. What ever may or may not be true of the average merchang
wholesaler and manufacturer, one thing is certain. There are glaring examples of huge profits and tremendous fortunes accumulated during the exigencies
hostilities. While there may be truth in the contention that this is rare rather within the the poulation who have been led this
wit to believe and firmly maintain that this
is true of the manufacturing and employing classes as a whole. They also maining classes as a whole. They as made no serious attempt to cope with this evil.
Lastly, in looking over the whole fiel,

Dispersion Sale of HIGH QUALITY, DUAL-PURPOSE

\section*{Shorthorns}

Owing to the death of the late S. A. Moore the entire herd will be sold without reserve.

\section*{THIRTY HEAD}

Farm one mile out of CALEDONIA, ONT
Tuesday, March 25th, at 1 o'clock
The herd has been built up on strictly dual-purpose lines. While splendid records have been developed, Shorthorn type and big, deep, thick individuals, and that they are good milkers is big, deep, thick individuals, and that they ar
borne out by the records made in the R.O.P.
In the offering are 13 mature cows with records from 7,500 lbs. up to \(13,535 \mathrm{lbs}\). , many of which are in calf to Burnfoot
Chieftain, a son of Dairymaid, which has a record of 13,535 lbs Chieftain, a son of Dairymaid, which has a record of 13,535 lbs. Four sons of Burnfoot Chieftain are ready for service. There re also five bull calves and six heifers by the above sire

Catalogues on application.
Bids by mail will be executed by the Auctioneer
MRS. S. A. MOORE, Caledonia, Ontario CAPT. T. E. ROBSON, Auctioneer

\section*{AUCTION SALE OF 40 HEAD 40 Scotch Shorthorns}

IRA MINOR \& SONS
At Low Banks Stock Farm, Low Banks, Ont. Thursday, March 20th, 1919, at 1 o'clock Twenty-one cows, nearly all with calves by side. Thirteen choice heifers, 6 months up. Six young bulls, serviceable age Sale
Sale will be held under cover. Conveyances will meet all trains at Low Banks Station. Luncheoin at noon.

TERMS:-Cash, or 6 months' credit on approved joint Auctioneers: T. Robson, F. Montague, W. N. McQullen Catalogues on application

\section*{Imported Shorthorns}
 We are offering a large eelection in imported females with
calves at foot or in calf. A few home-bred females, 19 calves at foot or in call. A few home-bred females, 19
imported bulls and 8 home-bred bulls, all of serviceable imported bulls and 8 home-bred bulls, all of serviceable
age. If interested, write us, or come and see the herd.
J. A. \& H. M. PETTIT

Freeman, Ontario
hen writing advertisers will you kindly mention The Farmer's Advocate

\section*{HARNELBEL SHORTHORNS}

Some Choice Young Bulls For Sale

 No. 6-Red, Calved Dec. 13th, 1917, Sire Mortimer Dam, Lady Soverign 4th.
No. 7-White, Calved Aug. 1st, 1918, Sire Gainor Supreme Dame
No. 8-White, Calved Aug. 2nd, 1918, Sire Gainford Supreme Dam, Garlinington Queen.

HARRY McGEE, Proprietor, 61 Forest Hill Road, Toronto SAML. TRUESDALE, Manager, Islington, Ont.

\section*{A Proven Shorthom Sire For Sale}
 WADE TOOLE, Animal Husbandry Dep't, O. A. G.

\section*{Choice Shorthorn Females}


A FEW SCOTCH SHORTHORN BULLS
 als of a any thing in Shrophires or Clydesdales. R.R. Stations C.P.R. - C.T.R., Myrtle, Ont
ROBERT DUFF \& SON.
The Salem Herd of Scotch Shorthorns


J. A. WATT

Elora, Ontario

\section*{I HAVE FOUR RED BULIS}
J. T. GIBSON

DENFIELD, ONT.
Shorthorns
swing the national life towards any
desired goal. It was this class which swung the election in favor of the Union
Government. It is this clas finally determine the course which wil struction in one of three ways by in action, or in a wrong direction due to
misinformation and the wrong influences, or awakened, of wrong influences, or awakened, to, the
true condition of affairs will force the weight of its influence in the right direction Now, 1 am convinced that it is only the awakening of this class that can save
us from a disaster which might phung our us from a disaster which might plunge our
national life into chaos, that can furnish a balance between opposing extremes, and which can create that moral situation,
which, giving hope of true reform, quiet the revolutionary consciousnem In other words it is upon it our salvation. But who will undertake this work of arousing these people, of organizing Press? For reasons that ticulate? The mention here this is impossible. The Church? The Church is not awake to the situation. The existing political
parties and groups? They are discredited parties and groups? They are discredited. tions? These are distrusted by the It seems to me apitanstic institutions. made by groups of disine start must be here and there who will undertake the work of publicity and education. First
of all there must be an existing situation and the causes the unrest, an interpretation of the purpose with an exposition of his griegances, an outline of the most needed and pressing, reforms, and last but not least a genuine this analysis must be published broadcast all over the land together with an appeal to the inarticulate. Thirdly,
public meetings must be called here public meetings must be called here and
there, which eventually culminate in conference made up of representatives This I am confident would result in This 1 amm confident would result in
three things. First, in an awakening and arousing of the latent moral power

THE RELIABLE REMEDY


\section*{Flintstone}

Farm
Breeders of
Milking Shorthorn Cattle, Belgian Draft Horses Berkshire Swine.

We offer animals that will taise herds to a level of war-
time eficiency. Bull calves
from \(\$ 125\) up.
DALTON
Massachusetts
English Dual-Purpose
Shorthorms
For sale: Bull calves and young bulls.
English bred for milk and beef. The right English bred for milk and beef. The right profits. From very moderate prices and up. English Large, Black Pigs. A
great bacon type, long and deep, thrifty.
LYNNORE STOCK FARM Fr. Wallace Cockshutt

Ontario
MAPLE SHADE

\section*{Shorthorns}

Young bulls sired by "Archer's
Hope." Ten imported
bulls. Best Scotch breeding.
WILL. A. DRYDEN BROOKLIN

\section*{Holstein Bulls}

cord s a erage 35.69 lbs.
ill for one day.
Holstein Bull Calf
,

THE FARMER'S ADVOCATE.
lative lines rather than along the lines
of social upheaval. Thirdly, it would
draw into its ranks those discontented
etements who for lack of other leadership
are now forlowing the Bolshevist and
extreme Socialist. Above all, it would
result in an entirely new type of leadership
so much needed in Canada. And last,
but not least, it would go a long way to-
wards introducing the wine of democracy
into industrial life and thus bridge the
gulf betwen capital and labor.
I have already much exceded the
space allotted me for my articles. But
in conclusion, let mee say that my own
conviction is that I have underestimated
rather than overestimated the seriousness
of the situation. I repeat it is ominous,
Only last week one of Western Canada's
most influential educators, in a private
conversation after a visit through the
prairie provinces and British Columbia,
voiced the conviction that we were upon
the eve of something of which he person-
ally was afraid. The rising tide of dis-
content might bring a deluge. A perusal
of the daily press both in its news and
editorial comment, shows that the
Bolshevist propaganda is spreading. It
may result in nothing. But a wise man
prepares for all emergencies. My deepen-
ing conviction is that only spededy and
decisive action can avert such an emer-
gency. And granting for sake of argu-

\section*{Gossip}

\section*{Canadian Bred Shorthor}

There are without doubt in Canad
T--ay many Shorthorn breeders who
having had their eye focused on the record
top prices that have prevailed at various
auctions throughout the United States during the past four years have failed
to appreciate to the fullest extent Sit horns that were bred in Canada. Thi
is not a summary of the achievements of Canadian Shorthorns in America bu
our attention has recently been calle
out to the winnings of the get of the Canadian
bred bull, Master Ruby at the recent International Exposition at Chicego
the outstanding Shorthorn show on the
continent. At this show Master Ruthe get was awarded the following, first fo
get of sire; first for progeny of cow and
secoit male or female. The first prize two-year old and grand champion female, and
the second prize aged herd also were all
the pronen male and female winnang the sire. Specia
mor the best two animals of the show
the were sold the same week in the Internation
al Shorthorn sale for just a little less than 810,000 . Few bulls bred in any
country hold a better record than Master of Brooklin, Ontario, and his sire is the
noted bull Archers Hope, which \(\begin{aligned} & \text { is still }\end{aligned}\) the chief service sire at the head of
Mr. Dryden's herd-while his dam was T. Cruickshank Brawith Bud bred by
T. F. Jamieson. As a junior yearling
Master Ruby, was grand chanmion bull at Wisconsin State fair and again
captured the same honors the following year as a two-year-old. Bulls such as
Archers Hoope and Master Ruby hoold
aive us every confidence in Canadiangive us eve
bred sires.

The Death of S. A. Moore. S. A. Moore, of Caledonia, suffered a
severe stroke on Felruary 11 and
\[
\begin{aligned}
& \text { 33-LB. GRANDSONS OF LULU KEYES }
\end{aligned}
\]
Hamilton House Farms) cobourg, ont.

Sunnybrook Holsteins!
The Bull is the first consideration!
 Jos. Kilgour, Eglinton P.O., North Toronto.



 "The O'Rielly Stock Farm" Holsteins-We have several beautifuly young cows and belforith


CLOVERLEA FARM HOLSTEIN-FRIESIANS GRIESBACH bros. \(\quad\) -

ELDERSLIE FARM HOLSTEIN-FRIESIANS



SILVER STREAM HOLSTEINS

\section*{} JACOB MOGK \& SON, R.R. 1, Taristock, ont.
I HAVE HOLSTEIN BULLS AND FEMALES


MARCH 6

\section*{ale of \\ RNS \\ IEAD}

John Elder and near
d., March 19
ering a herd that has retimime
 teders, rhe brecena, ime

 The eatle are sesining iomed HENSALL, ONT

Shorthorns
 isposed of, and are priced to
1 bull 6 months old by our
rmers Advocate

\section*{LULU KEYES}
 COBOURG, ONT.

\section*{olsteins!}
ideration!
rid's Record cows all soins of sit shis
ing oftered that is not from
wibl
., North Toronto.

Nuck
dupur port Parv. oname
DUPLICATE
and all are show calves. Whiti w
rown herd sire Sylvius Waller Ray.

con boy
 IN-FRIESIANS
collingwoon, ortime

\section*{N-FRIESIANS}
 STEINS
 ( SON, R.R. 1, Tavistock, Ont ND FEMALES Louis Prilley Rouble Hartog and and
Thit females are of manch he and
cQUEEN, Oxford County,

\section*{Important Dispersion Sale of 45 ancuas Holsteins 45}

Mt. Elgin, Ont., Friday, March 14th Holstin breeders will find this one of the select untested herds of Oxxord
County and while there has never been an official tester on the farm, it will County, and while there has never been an official tester on the farm, it will
be noted that practically verery femmale isted has offcially \(y\) tested ancestors.

 have restene drom December up to asie time. The heifer calves from these
cows will be retained every other animal in the herd sells with hout reserve. cous will be retained every other animal in the herd sells without reserve.
King S Segis S lcartra Bakker, the sire of the last mentioned calves, write for catalogue
There will also be sold one mat ched span of grey Percherons (grades), T. TERMS OF SALE:- Cash, or \(6 \%\) per annum on bankablepaper.

The London District Holstein Breeders will sell sixty-five head of registered

\section*{Holstein-Friesian Cattle}

At the Brunswick Hotel Stables, City of London Thursday, March 13th, 1919
 Hill Crest Count Echo 29751 and Baron Colantha Fayne 12273, and from Sate will be held cows will mostly all be fresh or due near sale tim JOHN McMILLAN, Sec., R.R. No. 2, Glanworth, Ontario H. C. HOLTBY, President. L. H. LIPSIT, Sales Mgr. T. MERRITT MOORE, Auctioneer

\section*{Old Reliable Sale Oxford Holstein Breeders' Club \\ 75 Head of Registered Holstein Cattle \\ at Dr. Rudd's sale stable, Woodstock, on \\ WEDNESDAY March, 19th, 1919 \\ Most of the females are fresh or springers. There are about 20 bulls fit for service. All animals have good official breeding good type, good condition, all inspected and all will be sold and satisfaction guaranteed. As there are some great producers offered, anyone wishing dairy cattle at their own prices should attend this sale as the Club is endeavoring to make this the banner one of the season, come and you will not be dissap pointed. Write W. E. Thomson, Woodstock, for catalogue \\ MOORE, DEAN, PULLIN, Auctioneers}

\section*{Highland Lake Farms}

For Sale: Two extra good (30-lb.) thirty-pound bulls ready for heavy service. Pri ed
to sell. Also younger ones by a oon of May Echo Sylvia R. W. E. BURNABY - JEFFERSON, ONT. Farm at Stop 55, Yonge St. Radial
Wainut Grove Holsteins \(\bar{M}^{1}\) am orfering a choice lot of bull calves, all adred bb world shamplon, May. Echo Sylvia. All are from R. O. M. dams and good individuala. Aloo havine

\section*{Gossip}
T. McCormick's Sale at Paris It is doubtful if any small Shorthorn
sale in Ontario ever offered prospective buyers a better opportunity prospective
choice choice, well-fitted opportunity in iv ividuld on
the than does
for Thurdormick sale now for Thcorsmick sale now advertise
prises the march entire 13 . The sale com pinds the entire Coleman House her
and while there are only 30 head sellin
the number the number of real outstanding individual
are perhaps are erhaps equal to the majority
seles that number forty-five jord entries. Classifying them in ages an
sex, there are eleven breeding three bred heifere eleven breeding cows; twelve 1918 heifers and calves of the chendar year. At the head of the herd
the Clara-bred bull, Augusta Punch. He is a thick roan, well-proportioned two
year-old, got by Augusta
while every while every dam in his pedigree is
straight Marr Clairview, was a noted Toronto. Augner as a yearling and is got by the Duthie bred Missi
bull, Primose Monarch
bea got by Augusta calves in the sale ring, exception are all of the sort with, out the eye and guarantee the worth of breeding age is bred to this bull.
reviewing the pediren well and several are particularly fashion
ably. There is bred Rosebud heifer by Augusta and
from a dam well-sett
herd
sire by Ste Eugenic ard two-year-old
White
When Fan rean heife Of the hall Sultan. She, a grandson of poor breeding
All have tol
are well above
Roan Beauty in
a matronuty is, himerage, individually
Fairmont got

and has a nice scat, is by Count Arthur
at foot. Her alf by the herd sire
mont Lavinia,

\section*{40 E 4 I IN STRATFORD \\ MARCH 12th}

The 2nd Annual Consignment Sale of the
Perth District Holstein Breeder's Club
Nine choicely bred-bulls ready for service, 40 females, these are a splendid lot, some in milk others just about to freshen. The most noted sires of the breed are well repre sented in the animals offered If interested in Ho
ADAM C. PARK, Secy.
D. M. ARBOGAST

LISTOWE
Pres. a
THOS. SMITH, Auctioneer

Raymondale Holstein-Friesians


RAYMONDALE FARM
Queen's Hotel, Montreal

elles and is one of te tat heifen



 teams, implements, teac, see acereritiec

 is only one mile toran the tou earm whic

Questions and Answers. Miscellaneous

Distribution of Company Assets. having recently sold their equipment. Can the directors distribut the net proceeds of sale equitably among to some process of law? Any information relative to the winding
up of a company of that kind will be
appreciated. Ontario. \(\xrightarrow[\text { Ans-No; see Revised }]{\text { W. E. A. P. }}\) Statutes amended by the Ontario Sec. 15, as 1915, Chap. 20, Sec. 18.

Promissory Notes.
signed with an indelible pencil or has it to be written and signed wench ink? months and at the end of the 6 months note no good or is the note good for
net
years?
3. How long is a note good for, is it
6 or 10 years?

\section*{DISPERSION SALE OF GANADA'S INTERNATIONAL Champion Herd of Utility Jerseys}

\section*{TUESDAY, MARCH 18, 1919, AT MYRTRY LODGE 3 Miles from Sarnia, Ontario.}

30 head. 20 cows, mostly fresh in; 15 young Heifers firom 3 to 15 months old; besides some young Bull Calves and
Heifers, and Stock Bull 2 years old.
(6i4) winner of thil the fairst prizes, won thpere." Carrie Nation, Contest in lbs. of milk and butter fat, against Holsteins, Dairy Shorthorns, Holstein Grades and Jerseys. Produce
\[
-:
\]

This herd has won over 1,500 first and second prizes in
16 years and won all the first and second Herd and
Sweepstake prizes at Port Huron, Mich. We have the best blood and milking strains the Dominion or the Istand of Jersey can produce. Our standard for 16 years
has been a cow producing \(10,000 \mathrm{lbs}\). milk, testing over \(5 \%\) We have produced some milking more, testing as high as \(7 \%\).
Catalogues issued later. Send for one-and don't miss the sale March 18th.

\section*{Myrtry Lodge Stock Farm}

Anthony Hughes
R. R. No. 2, Sarnia, Ontario.

\section*{Cream Wanted}

Ship yours to us, as we must
have it to supply our well haved trade with good quality butter. Therefore, we are prepared to pay you a higher price
than any other creamery. We furnish cans and pay express
charges. References, any bank. MUTUAL DAIRY \& CREAMERY

\section*{Cream Wanted}

Ship your cream to us We pay all express harges. We supply We guarantee highest We guarantee highes

Ontario Creameries, Limited


Jerseys and Berkshires
 literature, des
HOOD FARM

\section*{Planet Jr. tools effect a triple saving \\ 

Brampton Jerseys at National Dairy Show

\section*{ B. H. BULL \& SONS \\ BRAMPTON, ONTARIO}

THE EDGELEY CHAMPION HERD OF JERSEYS






\section*{LAKESIDE AYRSHIRES \\ }

GLADDEN HILL AYRSHIRES
CURIE BROS.
AGINCOURT, ont
SPRINGBANK R.O.P. AYRSHIRES

Questions and Answers. Miscellaneous.

What is the Comprestion.
 uneven? It seems as if it was pulliagtum
in one cylinder. Sometime ayo atern in one cylinder. Sometime agoa aratik
plug was broken. Even after a plug was put in it still ran unevernem just the other day I took out anothen plug which had been broken.Both had bew in this one cylinder and I was wonderin
if this form. I have had the cective in mon justed and can not finde carbberctor a justec and can not find the trowble.
W. C. S

Ans.- If your carburetor has been properly adjusted the trouble may \(h\) faulty compression or the cylinder may be
scored or it is just possible that youl scored or it is just possible that you maa
have valve trouble.
Auto.

Recording Will - Wages Claim. to his oldest son at his death property course of time was not satisfied and in trat and got the will and burned it. They
did not put it on record when drawn up did not put it on record when drayn up
Could the son record it in that time wifl. Could the son record it in that time with 2. Could a girl who never left t
claim wages for taking care of them? 3. What wages can she collect?

Ans. - Not legally, unless she is in i position'to prove an express agreement
for payment to her of wages, or cife cumstances from which suches, or an aif ment might reasonably be inferred.
3. The rate (if any) would be iuet what a court might deem reasonable.

A Real Estate Matter. If an agent sells Northwest lotis io mion from agent who the company consists of can I collect the money from the agent When he agrees to give the money bad
in two years with interest? He says the papers are the same as a note and tee tif agent, signs this company's name and
his own name to the papers? his own name to the papers?
It was about seven years let me know about its out lago. Please The lots are in Lethbridge and have been taken over by the city for taxese this
winter. The agent lives in Medicine Hat winter. The agent lives in Medicine Hat.
Would II save expense by going out and suing him there and have asgood a chane
of getting money back. I gave him a of getting money back. I gave
check for it at the time for \(\$ 400.00\). Ans.-We should doubt very much your being in a position to collect from the
agent at this late date even though your agent at this late date even though Th
claim may not be actually outlawed. Thy
lots could be redeemed from the tax saice lots could be redeemed from the tax sat
It would not pay you to go to Aberti about the matter. Your better plan
would be to see a solicitor of your oum city personally and be advised by him
as to your prudent course

What is a recipe for tanning skins mith the hair on? J. M. Ans.- We give below three recipes or
tanning such skins with fur ontightly upon a board, hair side doma, and tack it by the edges to its place Scrape off the loose flesh and fat with
blunt knife, and work in chalk freely, blunt knife, and work in chalk freer,
with plenty of hard rubbing. When the with plenty of hard rubbing. Whenf re
chalk begins to powder and fall of, re in move the skin from the board, rub in plenty of powdered alum, wrap up closer
ly, and keep it in a dry place for a ferl pliable, and will retain the hair. 2. Soft water, 10 gallons; wheat bran; \(2 \frac{1}{2}\) bushel; salt, 7 pounds; sulphuric acid, the skins in th solution and allow them
o remain 12 hours, then remove and
clean them well, and again immerse 12 hours longer, if necessary. The sking may then be taken out, well washed
dried. They can be beaten soft, if desired 3. Saltpetre, 2 parts, alum, 1 park
Mix. Sprinkle, uniformly, on the fesh side, roll up, and lay in a cool place
Spread it out to dry; scrape off the fat, and rub till pliable.
It is rather difficult to make a good job unless you have all the equipme the
It is often more satisfactory to have is often more satisfact



Can you depend on your car? IF not, what fun is there in driving \(\begin{aligned} & \text { ? } \\ & \text { are ality you }\end{aligned}\) half the good of your car.
Carry the chains that are easiest to attachDreadnaught chains with the Long-lever Fast ener-with electric-welded, case-hardened links for strength-with rust-proof rim chains
Your garage man can supply you, or write to us direct for information.

MADE IN CANADA
MCIKINNON COLUMBUS OHAIN LINITEE 8t. Oatharines, Ont.

\section*{lectric and Fire-}

\section*{Dreadnought TIRE CHAINS}


\section*{Our School Department.}

The Rural School as a Community Centre.

\section*{BY A FARMER'S WIFE}

The days of the little log schoolhouse are past and soon, too, will be those of the little school, White, red, green or
any other color. The time is fast approaching when every section will boast a spacious, modern and completelyequipped building which will mean more to the community than a place purpose of studying the three R's.
purpose of studying the three R's. for improving social life in rural districts do we not need some such building? True, the church has its part in this but it cannot do all, for there must be some place for business, agricultural aníd must have a schoolhouse so why not plan jt to serve this double purpose? Then, when literary societies, night clubs wish to meet you have a comfer ble wh to meet you have a comfort with a good library and a piano, the young people will meet here instead of anding some way to get to the town or Every
ttract may to youth in suburban districts speakers will be glad to come for an evening and address an appreciative audience on worth-while topics. In ructive debates, good moving pictures their time and attention that they will be loath to miss any of these meetings. claim the interest of every parent, may be made a great source of pleasure to all, as well as its inestimable benefit to the children, by making the school-fair an annual event

\section*{Candling Eggs.}

Incubators will soon be warmed up and it will not be long before hens will be experience in candling is now seasonable If there is no tester at the school it migh be well to write at once to the Live Stock Branch, Department of Agriculture, Ottawa, and obtain a tester. These
are made of cardboard; they can be used wre made ordinary lamp and they sent free on request. Testing should be done in a dark room, as the interior part of the egg is more plainly visible when the only light thrown on it comes from the lamp" within the tester.


Fertile Egg as Seen Through Tester, Seventh Day.
Practice on some new-laid eggs first, ance of a perfectly normal egg. How-
ever, for school purposes it would be well to make observations with a partly It will, of course, be more interesting to test eggs from under the hens, or from are tested after the seventh day, and the

\section*{Around the seventh day a fertile egg will
reveal a clouded spot, such as is shown} in the illustration accompanying this the yolk may throw a light shadow. set just to furnish eggs for school testing. A porch or closet could be fitted up for this
work and an cery hay and candled at school would
philanthropic enough to donate a nes section. eggs could be found in ever


A New-laid Egg.
Seed for the School Garden. Vegetables are grown in many scho garden was being planned we are publisi ing the following recommendations is garding the amounts of seed require Asparagus.-1 oz. to 100 ft , of drill. Beans.- 1 pint to 100 ft . of dril Beets. -1 oz. to 50 ft , of row.
Brussels Brussels \(s\) sprouts. \(-1 / 4\) oz, to 100 ft .
Cabbage. -1 oz . to 300 ft . of drill Carrot.- \(1 / 2 \mathrm{oz}\). to 100 ft , drill. Cauliflower.- 1 oz . to 2,500 plants. Celery.-1/3 oz. per 100 ft . drill. Corn.-1/4 to \(1 / 2\) pint to 100 hills, Cucumbers. -1 to 2 ozs. to 100 hills. Egg plant. -1 oz . produces 2,000 plant
Endive.- \(1 / 4 \mathrm{oz}\). to 100 ft . of drill. Kale.-1 oz. to 300 ft . of drill. Kohl-rabi.- 1 oz. to 300 ft . of drill Leek.- 1 oz. to 100 ft . of drill. Lettuce.- \(1 / 4\) oz, to 100 ft . of drill. Melons (musk),-2 ozs, per 100 hills \(4 \times 4 \mathrm{ft}\)
Onion.
Onion.- \(1 / 2 \mathrm{oz}\). to 100 ft . drill. Parsley.-1/2 oz. to 100 ft . drill. Peas.- 1 to 2 pints to 100 ft , drill Peppers.-1 oz. produces 1,500 plaits? Radish. -1 oz . to 100 ft . row. Salsify.-1 oz. seed to 100 ft , drill Spinach.- 1 oz . to 100 ft . of drit Squash.-8 ozs. to 100 hills. Tomato.-1 oz. produces 2,000 to 2,500 plants. 1 oz . to 200 ft . of drill.

\section*{A Study of the Oat} So far as the farmer is concermed deen are two parts of the oat which be given serious consideration.
hull is no better than oat straw for hul is no better than oat straw for ing purposes, so an oat which hasa ing purposes, so an oat which haabat
percentage of hull is not a profitilel to grow, even if it does yield ham Practically all the feeding value isin ini oat kernel wrapped up inside the nivi and a good oat has a large kernel bir
thin hull. Some varieties are said to thin-hulled, for the they have in the ne neibion hood of 75 per cent. .eernel and, of ourt around 25 per cent. hull. There ar ait which have a smaller percentage of hatle and still others have 35 per cent, or more As a general thing, side oats-thats.
varieties where the oats hang on the sid of the stem-are thick hulled, while those with a panicle or spreading liead are more likely to be thin hulled. Bamer \({ }_{2}\) and to. A. C. No. 30 will average aromid 27 to 30 per cent. hull, yet they poses hulled oats.
The straw should be considered when some varientieng of oats to sow, becausp some varieties have a weak straw and
the crop will lodge. This is a mater which cannot be studied in the school room, but pupils might bring samples of oats grown on their own farms, and correr
pare them with their neighbor's. There are many things to take into considers-
tion when selecting a variety of oats.
Ve have named a

FOUNDED 1866
March 6, 1919
THE FARMER'S ADVOCATE.


\section*{Sensible Half-Soles}

There'sa heap of good value in neōlin HalfSoles. They have such sensible qualities.
Long Wear that gives economy. As neölin Soles add life to new shoes, so Meōlin Half - Soles mean months more wear from worn shoes.

Comfort, too. For all the wear in Neōlin Half-Soles has not made them stiff and heavy. They're light and flexible. They make tramping over fields and around the yard easy on the feet.

Resist slipping, too. Don't grow slippery from stubble. Save many a slip and fall around the barn and machinery.
It's easy to equip every worn pair of shoes in the house with Meölin Half - Soles, nailed or sewn. If you are accustomed to repairing your own shoes, buy Meōlin Half-Soles at the hardware or general store, or take the shoes to your repair-man and he will equip them with neolin.
But be sure you get, real neôlin. See the name " neolin" on the bottom of the sole.

The Goodyear Tire \& Rubber Co. of Canada, Limited

\section*{Mē̄llin Hales}

\section*{RAISE YOURCALVES} Sell Your Milk

Grofat Calf Meal will raise equally as good calves as whole milk at a raction of the cost. Read what this Pure Bred Breeder says: Dear Sirs:-
lagersoll,
I can recommend your Grofast Calf Meal to those who are enI raised lat raise good stock, with the least possible cost. The calves 1 raised last year on your Calf Meal took first, second and third prizes breds, therefore I raise all my calves, and to raise therd are all puremilk, would make it very expensive, and I find your Calf Meal an ex cellent substitute. The sire at the head of my herd is King Johanna Reaw, and, whose two nearest dams average \(27,220 \mathrm{lbs}\), of milk in one year, and \(1,060 \mathrm{lbs}\). of butter. Yours truly, B. POOLE

De mand Grofast Cas 50 and 100 pound bass by dealers ciecrywhere.
IITERNATIONAL STOCK-FOOD CO. LIMIIED. TORONIO
INTHERNATIONAL GROFAST CAIF MBAT

 As Sure as the Sun Sets in the West so Sure will you Need Electricity on the Farm A PART from altering international boundary lines, the war has shown farmers how to concentrate; how to devote their time and energy to big and important things. But what about the little jobs? Somebody has to do them; to turn the cream separator, churn, grindstone, grain

\section*{Northertio Electric POWER and LIGHT}
 big end of farm work. Then, too, there is the domestic press. No complicated parts. or unnecessary frills to get
side of farming. Electricity in the home means whole- out of order. Buil some freedom from many daily drudgeries. It will run with occonomy built for real hard work and long service the washing machine, iron, vacuum cleaner, sewing took after as the Northern Electric As simple and easy to household utensils. It toaster and many other electric ings with a safe, bright, clean and economical light. No oil lamps or lanterns to bother with.
Think what a help and convenience Electric Power and Light will be to you on the farm if you make it the Northern Electric way. look after as the Northern Ejectric Telephone you know so well. NORTHERN ELECTRIC POWER and LIGHT is guaranted larmers all over Canada are power; plenty of light. Progressive em because of its honest dollyying the Northern Electric sys. There is a Northern Elestliar--or-dollar value.
There is a Northern Electric system for every require belt driven, operating from 15 to 1000 lightsted or or theit riven, operating from 15 to 1000 lights or
their equivalent in power for

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这ay we send you some interesting illustrated leaflets? You are not obligated in any way

\section*{Northern ElectricCompany}```

