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 LONDON, ONTARIO, APRIL 1, 1920.

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give you a roof or siding which affords full protection for a lifetime.

Nature made this material - gave it that light weight - that straight grain - that close texture - that decay - resisting oil that adapts it perfectly for an outer covering for buildings as does no other building material known to man.

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FOR artistic appearance British Columbia Red Cedar Shingles are unequalled - they are adaptable to any type of architecture - their texture admits of staining in colors and tones that give most desirable effects.


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## THPTL YOUR Home can now have the comfort and health of a proper heating system

## NO PIPES! The HECLA PIPELESS Furnace can be put in your home in one day

LARE, Bros.' engineers have Only a small cellar is needed to inproduced in the "Hecla" stall the "Hecla" Pipeless Furnace. Pipeless Furnace a heating system that can be installed in one day. That saves expenseas well as time in installing. That does away with the need for tearing up floors and mutilating walls, ceilings and partitions! That makes the air in every room as cosy, comfortable, healthful and warm as a June day!
 stall the "Hecla" Pipeless Furnace.
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dust. It has an extra large Circular Waterpan supplying to every room the proper degree of health-giving moisture. Likewise, the large Hecla irring door and heavy durable triangular

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Guaranteed to Heat Your Home Properly
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I ARGER crops and a better grade of grain are bound to follow - careful cultivation of the seed-bed. Seed in properly cultivated Give the crop a right start and prepare the seed-bed properly with a

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# The Farmer's Advocate and PERSEVERE SUCCEED Home Magazine <br> ESTABLISHED 1866 

## EDITORIAL.

Less talk and more thought will help to stabilize conditions and bring about the desired end.

The bright, warm weather in March would lead one to think that it is time to oil up the farm machinery.

Harden idle horses with good feed and regular exercise. The horses should be ready as well as the implements.

Cattle free from vermin will be much more contented in the stables while waiting for the season when they can go out on grass.

The season of the year is approaching when farmers adopt the eight-hour day-eight hours in the morning and eight in the afternoon.

Is the spraying outfit complete? Don't delay and then attempt to spray with leaky hose, with out-worn nozzles, or with a pump that needs packing.

All breeds of live stock have been improved and brought to their present high standards largely through selection. It is a practice that all can follow-it is the one road to success.

Sanitation in the stable will prevent many diseases that are not understood and which cause heavy losses. Sanitation is easily practiced, is based on common sense methods, and is more effective than drugs.

- Seeds for our farm crops should be selected with the same care that we select a sire or foundation females for a breeding herd. With high-priced labor, or no help at all, the farmer must make better use of his own time by sowing the best seed obtainable and producing more per acre.

The poultrymen of Canada are to be complimented on the step taken toward the registration of their birds.
The fact that a bird comes from pure-bred stock does The fact that a bird comes from pure-bred stock does not entitle it to registration; it must measure up to
certain standards and have a record-of-performance guarantee as well.

It has been rumored that some Commoners at Ottawa favor a second session of the House. Last year the second and short session cost the country total cost would run up close to a million dollars. Such extravagance and folly should never be repeated.

Túberculosis not only means a very considerable loss to the live-stock industry, but scientists are laying increasing stress on the danger of humans contracting the disease. The Dominion and Provincial Governments would be warranted, we believe, in making very
liberal appropriations scourge.

No Government can successfully abolish the patronage the Cabinet Ministers and the chiefs under them with requests for petty appointments and little favors. We send representatives to the House of Commons and the are not expected are not expected to waste their time and worry the
Governments with minor matters which concern individuals only.

## Tuberculosis and the Live-Siock Industry

The first step in eradicating tuberculosis from the live stock of Canada, and protecting the people of this country against this dread disease, will be to awaken a public interest and bring the public to a realization
of the loss financially and in human lives. The accredited herd system will do much to clean up the pure-bred herds and show breeders where tuberculosis does and does not exist, but it would be some years before its influence would be noticed on the commercial stocks of this country, and it is in the commercial stocks where the loss and danger lie. The Veterinary DirectorGeneral, Dr. F. Torrance, states that the number of hogs showing infection has increased one per cent. per annum during the last ten years. This does not represent the financial loss, but it indicates a steadily increasing amount of tuberculosis in the herds of the country. Swine contract the disease from following cattle, or through the consumption of milk, and they constitute a fairly reliable index to the condition of our herds. Every year at the Government-inspected abattoirs a large number of cattle and hogs are thrown into the tank because they are unfit for human consumption, and only as fertilizer are they of any value to the country. It is in the commercial live stock where the greatest loss occurs, and it is upon this branch of the live-stock industry that the prosperity of our country depends. Through the "packers insurance," a charge of approximately one and one-half per cent. of the selling cost exacted at the stock yards, and the loss is distributed over the whole body of producers in Canada. The man with a clean herd pays for the condemned animals his neighbor markets, and thus it is that few realize what this loss through tuberculosis means to raisers of live stock. There would be a sudden awakening if every man who sold a tuberculous animal was obliged to suffer the full extent of the loss when it is condemned and "tanked" We are of the opinion that no effective campaign has yet been set on foot which will clean up our commercial stocks, but stock raisers should demand it and look to the Dominion and Provincial Governments for ${ }^{\text {co- }}$ operation and action in this regard.

## We Should Pay as We Go

The practice of paying one's way as he goes is sound principle, and our Dominion Governmient will be obliged, sooner or later, to get down to this basis of financing the country's operations. Canada's revenue must be boosted; her expenditures must be decreased. It is quite possible to reduce our expenses in many respects, and there is not the slightest doubt but that the revenue can and must be increased. Much as we may dislike taxes, each and every one must do his rightful part in bringing the country's revenue to a par preached thrit and retrenchment, and have no apologies coming to a period introducing the subject here. We are coming will be forced, perhaps, even if it be against their wishes, to spend more modestly and get down to a basis of essentials and actual
In attempting to increase our revenue, the tariff has nothing to promise. The Government has practically admitted that the tariff is high enough, and one thing is arn, the people will stand for no higher tolls in this egard. It wow seen her on the revenue would be thrent we make no suggestion s to how it should be applied. It will have to be worked out on the basis of taxing wealth where it is found to exist, and permitting those We have never had heavy taxation in Canada before
begin to reach out and touch those who have hereto fore escaped, there is sure to be complaint. However, the money must be raised and the Federal Government must devise a method whereby it is to be raised. We cannot go on spending more than we earn, and then borrow on loans to meet our obligations and to retire previous loans. The sooner some system of taxation is devised to meet the expenses of the country, and the sooner the expenses of the country are pared down so they will in some degree correspond with our revenue, the better it will be for all concerned.

## The Eight-hour Day

The fact that the eight-hour day was dragged into the Peace Conference does not dress it up in any more attractive form to present to the Canadian electorate, and it is evident that our parliamentarians and legislators realize how ill-timed any eight-hour-day legislation would be at présent. In fact, none of them show any desire to risk burning their fingers by enacting an eight-hour day, which they must know is not in the best interest of agriculture, manufacturing industries or the nation as a whole. This is a time for work. The need of more work is becoming apparent every day, and we should cease looking for that substitute for work, in the search of which so much time has been lost and so much trouble caused during the last year or two. There is a good deal of quibbling going on regarding the power's of the Provincial Governments or the Dominion Governments to enact such legislation. In more colloquial language, they are all "passing the buck." The Minister of Justice is not sure who has the power to enact the of Justice is not sure who has the power to enact the
eight-hour day, and a conference between Dominion and provinces has been suggested. Premier Drury took the stand in the Legislature that it is more of a federal than provincial matter, and he furthermore opined that possibly eight-hour-day legislation would be efficient and successful only on an international basis.
One thing is certain, Canada or her provinces would be ill-advised to enact the eight-hour day and attempt to compete with other nations which have not gone so far as to adopt this legislation. Capital will naturally flow to those countries which have the fewer hampering restrictions. There may be certain industries where the eight-hour day will be quite in keeping with the nature of the work, but our legislators should know full well that the eight-hour working day at this time does not harmonize with the demands for greater production. There are certain lines of work in industry where eight hours is plenty long enough to work, and we believe that legislation regarding the hours of labor in certain lines of work would meet the needs of the country better than legislation covering industries in their entirety. The object of such legislation should be to protect the laboring man against undue exposure to injurious conditions under which he works, and this could be effected quite as well by specifying the lines of work which are injurious, rather than naming industries with all their branches.

Some of our academic legislators are explaining that agriculture would be exempted from the influence of this legislation. Such a stand is ridiculous, for any set length of day or conditions of labor covering a broad field will influence the whole market, and agriculture would, in the end, be obliged to conform to any legislation enacted. Farmers cannot consider employing labor on the eight-hour-day plan; therefore, if our legislators, federal and provincial, wish to see a well-balanced, productive nation, they will leave this eight-hour-day bug-aboo strictly alone:
sane, progressive, though steady, policy is the surest to bring the best results, and such a policy is the one best suited to the circumstances and conditions at present.

## THE FARMER'S ADVOCATE

The Farmer's Advocate and home magazine.
the leading agricurturaa joumal in the

## HE WI <br> JOHN WELD, Manager. <br> armer's Advocate and Home Journal," Winnipeg, Man.

THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday. It is impartial and independent of all cliques and parties


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## Nature's Diary

Birds on the Farm-4.
-In attracting birds about our homes in the summer a bird-bath is a very useful device. In times of drought, when most of the pools and $s^{4}$ reams have dried up, the in. A bird-bath may be as simple or as ornamental as one desires. A rough earthenware saucer from six to twelve inches in diameter, with half an-inch of fresh birds. In the case of any bird-bath the first consideration is the depth of water. Very few birds will bathe in water that is deeper than two and a -half inches, this depth. The best construction for any bird-bath is to arrange it so that the water is less than Haly fan inch deep at one end, or all round the edge, and two or two The bottom should be roulh as the birds obect to slippery bot tom to their bathing-place just as much as we do. It is decidedly advisable to place the bath on a support of some kind, so as to raise it three or four feet
 So far we have confined guluselves to the means of atracting birds in spring and summer, but there are
several hardy sppecies of birds which remain with us

 The irst thing to consider in atracting birds in
winter is the presence of trees and busthes which produce rutits that are relished by many species of lirids and which
femain on the branches throughout the winter. Wish


 Some of the best tres and shans for this purposer
are the following: Manitola Maple Mer "ungulo,

 Sumach (Rhus typhinant , Wild
ther species) Mountan-ash
then
urnum opulus,) Climbing Bittersweet (Celastrus scandens), Gray Birch, (Betula populifolia), Hawthorn
(Crataegus punctata and other species and Hemlock (Truga canadensis). Many of these species not only furnish food for winter birds, but are highly ornamental at all seasons, so that
roundings of the house
Many other winter birds feed almost exclusively upon seeds and in times of deep snow, when many of the seed-bearing plants are covered up, they will be attracted by a supply of seeds. Suitable seeds for such use are hemp other foods which will be eagerly received by many species are bread crumbs, cake crumbs and broken nuts. For success in feeding native birds with these foods it is absolutely necessary to eliminate the House
Sparrow or else they will drive away the other birds and get most of the food
and get most of the food. to place them on a food-tray rather than to scatter them on the snow. Such a tray should be made about three feet long and a foot and a half wide, with laths nailed off water from rain or melting snow, and fastened on a pole three or four feet high, or attached to the windowsill. The very best kind of food-tray is the weathercock tray, which is both a food-tray and a shelter and eliminatesthe difficulty of keeping the tray free of snow.
This tray, which is shown herewith, is set on a pole in such a way that it revolves and the wings keep it with the opening facing away from the wind. The pole should project up through the floor of the tray, and the end of the pole should enter a hole in a block on the in-
side of the roof, the top of the pole being rounded and a side of the roof, the top of the pole being rounded and a

hole should bear on the rounded end of the pole, so that feet long, 15 inches across and 10 inches in height at The wings should project 15 inches from the box and their rounded portion should be 7 inches in diameter.
Many birds, particularly the Chickadees, Nuthatche and Woodpeckers, are very fond of suet. Lumps of suet may be tied securely and carry off the is found th may be fastened down with half-inch wire netting. We have now briefly dealt with the chief means of
attracting birds at all seasons of the year. Like every thing else worth doing it involves a little trouble and a pound interest the effort expended, and one of its great advantages is that by this means the birds are brought where we can enjoy their lively company at all times, enjoy watching them, and children who thus grow can with a love for their feathered neighbors will have a most valuable asset
the days of their lives.

The Rising Generation Won't Rise Very High Without Good Teachers.

Tve been hearin' an' readin' quite a bit lately about ither parts o' the country as weel the country, an' in the say that they are no' gettin' pay enough for the work fashion to be goin' on strike these days, but there's no muckle chance for the teachers to be strikin' unless it's $o^{\prime}$ their pupils. They could dae that, I mind, in my There was a teacher we had that Hoced town

 the strap an' birch switish he worri ont in in An' manys. hard thy o his scholus that were afrait o' hion hat ad
 te ot these. whe My and atest-lrither was


One day my brither found oot about this strick $0^{\circ}$ the aroond to the front o' the school an', all at once, he cham' the ball straight for the knot-hole. 'He was a guid singot was my brother, an' the hole stayad plugged for the erest he kept winkin' his right eye as though in after recess him. He'd got a wee bit o' that snowball in it, arrichn' But he never said a word tae ma brither. Gin it were who had done the trick he'd have skinned me an'tanned for somethin' or ither that I'd done, an' I imarine time, feel the twist he gave it to this day. It was netan short o' a crime to cage up a bunch $o^{\prime}$ wee lads ana' lassies an auld bear like that
I suppose there was something that could be sais for the man, if it came to that. He was an unco' guid writer an' he had the reputation o' bein' a master-hand at
figures, although, sae far as this goes, therer figures,
$o^{\prime}$ his figures, that I mind of, on my back than there wair on the blackboard.
And his salary was na so big that ye could call hi vera muckle o' a Jew. It was twenty-five pounds a year That wouldn't keep the clothes to his back noo-a-days, but it was different then. The rest o' us all thought if But later on teac
But later on teachers' salaries went up to as high a o save money. An' lots o' them did it, too. The retion price for board was five dollars a month. An' if the leacher happened to be a young woman, an' was guidboarding with wad, very aften, throw off half been a month. "But dinna tell the auld wumman," he'd say.
Some o' these teachers o' a by-gone day were prett guid examples o' the saying that it depends mair on what ye are than on what ye get, how much money ye'll have. At the same time, I canna say that l've ever 'll gie ye a example Ye ken all aboot this Forward Movement that's been going on amang the Churches? Weel, as ye may guess, they appointed me as one o' the canvassers. Gin there's a job going that the ither fellow won't do, I get it aften wish that song that I will be hearin' them singin had been going in my young days. I might hae got a lesson oot o' it. But "No" is an unco' big word to
begin to use in yer auld days when ye have been in the habit o' saving "Yes" all yer life.
, they sent me oot $\mathrm{m}^{\prime}$ to one o' my farmer friends that had been stackin' up, the bawbees for quite a while and, sae far as givin away money was concerned, belonged to the class that "could if they would." Puttin' him at the head o' the
list ought to coax somethin' worth while oot 0 ' him, I thought to mysel.' Can ye guess how muckle I got from him? Onc dollar,
neither mair nor less. He had a lang story aboot what it took tae rin the hoose noo-a-days, but I dinna mind thinkin' he said while thinkin' $o$ ' ither things.

- The next person I happened to come across was one o' these school teachers, that we have been tallin aboot. She has been teachin' no' far from her hame
in a small school that never paid her mair than four in a small school that never paid her mair than four "I suppose I shouldn't ask her," says I to mysel," "but maybe she'd like to double the amount I noo have on " "Well, I was thinking," she said when I asked her, "of giving a hundred dollars. Would that be all right?"
says she. Juist a quarter o' her last year's salary. Thinks says she. Juist a quarter o' her last year's salary. Thinks
I to mysel,' "Hats off to our teachers, gin they're all li e
I often think that, some way or other, the profession
, teaching should hae as suid an effect on the teacher o' teaching should hae as guid an effect on the teacher
as on the scholars. Maybe better, for the teacher is as on the scholars. Maybe better, for the teacher io
generally the one that learns the lesson best. She has to, to teach it. And she measures the result o' her work in lives and developed character, while the rest $0^{\prime}$ us measure ours in dollars an' cents, mostly.
So, if there's one profession in this country that we So, if there's one profession in this country that we
should look after and pay well, it is that o' the teachers. Should look after and pay well, it is that o' the teachers.
If we pay good living wages we'll get plenty o' the right kind o' men an' women to take up the work. If we don't we won't. For if we don't give the rising generarise very high, ye may be sure $o^{\prime}$ that. When a man is picking out his life-job he's got to ken what kind o' pay goes with it. Low wages will mean poor teachers in
the end. We all ken this and then, when it comes to putting a couple or three hundred dollars to the teacher's Sure we'll have to put it up, but it's the best investment that we'll ever put our money into. This life doesn't wi' the future hill o' beans unless taken in connection the future of the country one thing worth working for, is any person who will have mair to do with what the next generation, an' the next, an' the next, will be than e'll find hime her, I'd like to ken who it is an' wher
We're at the deciding point right now. Make things ,etter for our educators, pay them wages that would 4



## Sore

## could be sais for

 oes, there was mairye could call him ive pounds a year. $\mathrm{o}^{\prime}$ us all thought if ent up to as high as it, too. The reetular
month. An' if the oman, an' was gui
that she had bee ow off half a dollar
vumman," he'd say one day were pretty how much money. a say that I've ever ovement that's be el, as ye may gues,
assers. Gin there's won't do, I get
hearin' them singin might hae got a ey sent me oot 1 guid start, 1 went
ad been stackin' p
1, sae far as sivin ed to the class shin
at the head $0^{\prime}$ the m him? Onc dollar, , but I dinna mind
ve been tallin' far from her hame
ner mair than four unt I noo have on en I asked her, ear's salary. Thinks
profession Ior he texateri ib

She has to,
 , rising generat. When a man 1 poor teachers in to the teacher's
the best investo. This life doesnt ken in connection
worth working for,

And if ther
, will be than
v. Make things
ture an' every-
money, and in
world. We ten, be it teachers
a neck collar until the wound is healed. Anothe
shoulder trouble does not occur so suddenly Whe the animal experiences pressure bo suddenly. Whe appears to suffer pain. These symptoms disappear and he does not appear to suffer acutely until after anothe short or long period of rest. An examination reveals a
circum scribed enlargement of the muscle, which is hard and tender to the touch. The enlargement usually
gradually increases in size and soreness becomes more acute. In most cases, after a variable time, a soft spo
appears at the most prominent part and manipulation appears at the most prominent part and manipulation
reveals fluctuation. The enlargement contains, pus or
patter the enlargement does not "point" (the soft fluctuatio surface mentioned is called "pointing") In such cases it is not possible to say definitely whether that is purulent abscess with very thick walls, or a fibrou
tumor. In order to determine it is necessary to explore by making a small incision through the skin at the most prominent part, then forcing a director or a prob through the tissues towards the centre of the enlargement. If pus, even in small quantities appears, of course,
it proves the trouble to be a purulent abscess and the treatment noted will be effective, but if no pus be presen the trouble is a fibrous tumor and the only effective treatment is dissection. The whole mass must be carefully dissected out, the wound stitched with the exception of an opening at the lowest part for es
pus, and then treated as an abscess until healed.
What is known as a "set-fast" is a case of scalding where the skin becomes separated from the healthy tissue, but remains connected by a healthy portion in the centre. This must be severed and the raw surface
treated with white lotion until healed. Whip.


Mildred.

## LIVE STOCK.

J. S. Howard one of our subscribers writes that he

Breeders are beginning to finel out that it doesn pay to consign poor stuff to a big sale. There are many

Robt. Nichol of Hagersville, held a Shorthorn sal recently when females averaged a little over $\$ 200$ and
the males $\$ 150$. The animals sold below their value considering the quality

While a large percentage of our bacon hogs are
placed in the first grade there is a slight tendency to placed in the first grade there is a slight tendency to-
wards lack of depth and length of body. We must no

A Noted Live-stock Breeder Passes Through the dectase of agriculture lost one of it most dist inguished and successful stock breeders. The of dual-purpose Shorthorns, and the herd of five hundred head toget her with the la rge flock of Oxford-Down sheep, and the Shire horses, wade Kelmscott famous the world father, who established a notable herd and flock, an the work of selection and breerling which he did brought
the stock nearer perfection. Breeding stock from Kelmthe stock nearer perfection. one occasion been imported to Amprica ant have nroven their value and high quality in both show and sale-ring with him, and now one is
another for the Shires, and a fourth, on being released from the army, has joined his brothers on the farm.
One other son is a noted live-stock auctioneer. and two others are in business. Of late years Mr. Hobbs, having been more or less relieved of active work on his estate, has devoted considerable time to public affairs relating to live stock, and has been active in the work of the various live-stock societies. His services were
much in demand as a judge of the three classes of stock much in deman
above named.

Character and Type in Stock Breeding.
"A thing of beauty is a joy forever." As human which is beautiful or graceful to the eye. This pertains perfected by the hands or brains of man, and last but perfected by the hands or brains of man, and last but animals. There are a great many things which go to make up this appearance in beast, which brings forth the comment such as, "Is not this a beauty? A few things to outline this characteristic of beauty are general, such as expression of the eye. In the horse or cattle beast, the head and eye particularly are the great first inspected in judging. The eye will, to a as thriftiness; a bright, bold, clear eye denoting a vigorous constitution, etc. These mentioned characteristics creatures. Apart from these it is mostly a study of conformation and type of the different breeds.
With reference to the breeding of live stock, we know that this is a calling which is taken up as a hobby, by
many wealthy commercial men. We know of hundreds of business men who operate and own a pure-bred herd and farm aside from their business. The breeding of pedigreed stock is not fully appreciated by the man not interested. in accomplish the at mating and breed ing stock, to produce animals or a kind and
win highest honors and bring comment from the public, is togethre with the benefit to the general public in the production of these types or seed stock, the greatest pleasure to the man who is honestly engaged in this, the good stock breeder is after as the feeling and pride the good stock breeder is ander, aperior and better from the materials at hand. I do not wish to impress that the financial rewards are small from good stock breeding, but simply that the public, oive credit to the improyer of the herds, at least not to the extent the manufacturing world does when they pay fabulous prices to men who do patent or perfect a pattern or machine
selling: "It certainly is a choope say when cattle are no animal is worth it." Too few realize in the proper sense the benefit to the community and to themselves the labors of the constructive breeders. The only possible way to improve the stork of any country is
through the use of the good pure-bred sire, one with quality, character and prepotency besides a fine pedigree. and will eventually work a great benefit in this Province The pure-bred stock breeder must always keep in mind the type which will most economically reproduce supply our markets with prime beef, butter, and cheese supply our markets with Mrime W. Ontario. We. Oestreicher
Huron

Aberdeen-Angus at Cold Creek Farm.
The Aberdeen-Angus sale, held by G. A. Ritchie The Aberdeen-Angus sate, held by G. A. Ritchie of choice individuals of the breed. There were only fifteen animals selling, and a number of these were but young calves. The herd sire, Balmedie Pride's Lad went their new owners. The following is a list of the animal sold for $\$ 100$ and over:
Balmedie Pride's Lad, Edgar Brisbin, Cobourg ....... $\$ 200$ Kyma Nannette G. Lad 3rd, Geo. Falls, Bewdley..... 15 Cold Creek Laddie, Whitehead Bros., Rossmount.. 191 Mirabel, Jas Thompson, Cambourne

## Fair Maid of Cold Creek, Duncan Ferguson

 CobourgMoss Rose 3rd of Cold Creek, John Underwood Kyma Nannette 3rd, Herbert E. Moore. $\qquad$ Cold Creek Fair Maid 2nd, Alex. Campbell, Balti-

Lela of Cold Creek 3rd, Edgar Brisbin, Moss Rose 4th, Edgar Brisbin
Mirabel 3rd, Tustin McCarthy Lela of Cold Creek 4th, Thos, Cobourg Cold Creek Fair Maid 3rd, Alex. Campbell.

| 180 |
| :--- | :--- |

We recently heard of a drover who for several year has made a practice of purchasing high-quality rams and which he buys several carloads of lambs every fal He says this is a good investment. If there were more drovers and stockmen of his temperament there woul
be more first-grade stock going into our markets.

## Look Well to the Natural Increase in Flocks and Herds,

At this season of the year one expects to see, on
entering the average farmyard or stable, young pigs,
lambs, entering the average farmyard or stable, young pigs,
lambs, calves and colts idling their time away in the
pen or else frolicking about in the sunny yard pen or else frolicking about in the sunny yard, It is live stock, and there are few who do not take delight in looking after the young things in the stable and assisting in giving them a good start in life. It is also an anxious time. A little carelessness in the attention to the pregnant females and to the young things after
they are borm may result in considerate they are born may result in considerable loss. The good
herdsman is always on the job; and may be found in about the stable at almost any hour of the day or nigh during the spring-times. His presence saves many a young animal from an untimely death. A simple operation or a little assistance, by the man who knows how, can often save a lamb, pig, calf or colt. Some of the troubles common to our domesticated animals
were practically unknown when the herds and flocks ran wild. The perfecting of our farm animals has in some cases, tended to develop weakness. It is im portant that we copy nature as closely as possible in
the care of the herds and flocks. At the present time the care of the herds and flocks. At the present time the loss of a young animal means a good deal, owing to the enhanced value. Even under the best of care, the young or desult of neglect.
rest
A pood deal depends on how the dams are looked after during the gestation period. Some feed liberally and so pamper the animals that their constitutions are weakened; some go to the other extreme and are utterly neglectrul of the animals under their care. It is im portant that a liberal ration be fed, so that the dams will there should be moderate exercise. Towards feeding of the gestation peflod the animals should. be watched and a clean, carefully disinfected box-stall provided
for theme for them.

The Cow and Her Calf
The practice of wintering the dry cow on straw is now abot obsolete, farmers realizing the importanc of having the dam in good condition at time of freshen feed her offspring more liberally than if the system weak through lack of proper nourishment silage, straw and a little hay will put flesh on most dry cows. It is advisable to grain some cows, the amount feed depending upon the condition of the animal. parturition draws near it it advisable to put the cow in
a box-stall. She is more comfortable than if being free to rise and go to her offspring she invigorates it by her maternal care in lieking. This sets the blood in circulation and dries the calf, so that there is less danger of it taking a chill. But, whether the cow is in a loose stall or not, it is a good practice for the atrender valuable assistance, thus lessening the suffering render valuable assistance, thus lessening the suffering
of the dam and possibly saving the life of the calf. During parturition, it is not wise to interfere except in the case of abnormal presentation. It is important that the animals be ket as quiet as possible, and if any operation is necessary it should be done by a skilled
pefson. With normal presentation the fore feet appear peffon. With normal presentation the fore eet appear
first, with the nose between the knees. Assistance may first, with the nose between the knees. Assistance may
be given by pulling outward and downward. Using a light block and tackle gives a steady pull, but care should be taken not to pull unduly hard as such practice has, The cow should not be allowed to labor too long without results before an examination is made. The foetu may be coming wrong, and the straining only weakens
the dam. We recall one instance where there was litle or no straining. The cow had evidently ween lick when in the field, and the water bag had broken. Had an examination been made when she was brought to As it was, twenty-four hours elapsed before assistane was given and the calf was lost. The calf was lying on its back in the womb with the hind feet pressing
against the kidneys, so that pain was caused time the cow strained, thus the cause of little la each If the afterbirth doos not come away in twenty-four Care must be taken not to injure the parts, as every abrasion makes a place for infection. water to drink, as cold water may cause a chill, and in at other times. Feeding a hot mash for several days is commendable, but this is not practiced as much now as Mlan to give from a pound to a pound and a half of of
Epom salts. If there are signs of constipation before the end of the gestation period, a mild purgative, as a
quart of linseedo oil, is recommended and laxative feed,
such as plenty of rond such as plenty of roots and bran, may advisedly be be
given. Do not put the cow on a full ration, but start
lightly and gradually increase until the cow reaches not wise to completely empty che udder for the first two
or three milkings. When the calt is left there is seldom there is seldom any trouble, Milk fever is more prev-
alent with the dairy breeds than with the beef breeds,
owing to the heavy mint alent with the dairy breeds than with the heef breeds,
owing to the heavy milking propensities.
It is important that the attendant see that the calf is able to get on its feet and obtain the colost rum, or
first milk. This has a corrective effect on the system. selves, lut one never knows when the calf will be weak
be raised by the pail, it is a good plan to wean it at the
end of the first day or two. For the first three or four end of the first day or two. For the first three or four
weeks new milk should be given, the amount depending weeks new milk should be given, the amount depending usually enough to start with, and this should be gradually increased. The change to skim-milk should also be made gradually. Over-feeding will soon result in indigestion and diarrhoea, and the symptoms of underfeeding are all too common to need any comment. utmost care is exercised. The stable should be kept clean and the pails used for feeding scalded regularly. Feed the milk at a uniform temperature, and let one person look after the calves. Feeding cool milk very often starts indigestion. Calf troubles are more easily prevented than cured once the calves are affected. The breeder of pure-breds, or grades either for that matter,
cannot afford to gamble with his calf herd. The younssters need more attention than the older animals, and failure to give the proper care and feed very often results in under-sized animals at maturity, which would
otherwise have been considered of good quality. We otherwise have been considered of good quality. We
need to save all the calves we can and to keep them in a need to save all th
thriving condition

During the past winter hogs have not been as favorably thought of as they were a year ago, and some were rather dilatory about giving the young litters a
chance. This spring the market. has strengthened somewhat, and undoubtedly the spring litters will be mer saving. They can be carried through the summer at a reasonable cost, provided pasture crops are
made use of, and will be ready for finishing when the new crop is threshed. It is very important that the brood sows have laxative feed and regular exercise previous to parturition. A good many of the vices to
which sows become addieted after farrowing are preWhich sows become addicted after farrowing are pre-
ventable, if proper attention is given previous to and ventable, if proper attention is given previous to and
immediately after farrowing. The amount of grain to feed depends on the condition of the sow. Access to clover hay and plenty of mangels, with a very small quantity of grain, will carry the average sow along
very nicely. They ought not to be too fat at farrowing time, but should be in good condition. Mineral matter, which may be supplied in the form of wood should be fed. These may be mixed together and placed in a box to which the sow has access. A shed, or around the straw stack, is a good place for the brood
sow to spend the winter She will then receive the sow to spend the winter. She will then receive the required exercise. When confined to the pen, there is
a tendency for the sows to become over-fat and a tendency for the sows to become over-fat and weak in
the bone In this conditio when moving them to the farrowing pen. The danger when moving them to the farrowing pen. The sudden
violent exercise may cause them to stiften, or iniure them in some other way. It is also detrimental to the young The sow should be placed in the farrowing pen several days prior to parturition, as some are very rest
less when put in a strange pen. a protecting rail against the wall. This should be eight
inches from the floor and eight or ten inches the walls, to give the young pigs a chance to take refuge when the sow lies down. There is a difference of opinion successful hog raisers sadvise using but a little chaff or cut straw, while others, equally successful, use an that the sow will make a deep nest and there is no chance for the young pigs to wander about the pen and become
chilled. The average sow is careful when lying dow but if one pig should be under her in a deep bed of has a better chance of surviving than if there When the sow is restless and cross the attendant should be on hand and place the young pigs in a basket
or box. They may be kept warm by bricks. Pigs may be kept this way for ten or twelve placed with her. See that the sharp quieted down, be off so that they will not injure the dam. necessary, and then the ration should be graduall increased until the full feed is reached by the end of
two weeks' time. Here again the amount to feed pends upon the size and condition of the sow. Some do not get exercise they may become affected by phat serious ailment known as thumps, If the young pirs
are becoming over-fat, force both them and the sow to
to the young pigs. By applying oil to the brood sow
these pests these pests may be destroyed. A dry, clean pen, on
the suny side of the barn, is an ideal place for the young litter, and if the weather is favorable it is a good
plan to give them the freedom of the yard for an hour
or two at mid-day are a little under-fed will commence of rinke. pigg migs which
a trough. If
success is to be obtained, it is is

## Increasios mimerners.

## Many of the principlos regarding the care of the con

 proper care of the flomk during the wimer and ton to inof the attendant in lic on land at of the attendant to be on hand at lambering time fowlun
past year or two lave been

heten pen. The ewes become injured when ins in the in or out of the pen, or if there is undue crowding the feed trough. This very often results in in still-biong lambs, It is doubtful if there are any better feet than oats, bran, peas, roots and leguminous ha amount to feed depends upon the condition of the floct period there will be a good deal during the ge period there will be a good deal less trouble a soon as the lamb is born the mucous should be remon from its mouth and nostrils, and the weak lambs as in getting their first meal. It very often happens that their legs are too weak for them to stand alone, and they must be held. Then, too, some ewes do not tal kirdly to their offspring, and it is necessary to $k$ lose watch for several days to see that the lamb gets sumbient nourishment. Dipping a chilled often revive it. It is a good practice to malke wer small pens in the sheep barn by means of hurdles. pen six feet square is large enough for one ewe toms of parturition are swelling of the organs, ness, desire for separation from the flock
As the lambs develop they require more nour ment than what they receive from the dam. They quently it is advisable to provide a pen whene lambs may have access to a trough of their own and pick at oats, bran, oil cake; etc. Some men se have a great deal more success with their flock others, due possibly to a natural instinct for looking be lost this spring through neglect. Canada renuires more sheep.

The Mare
As a rule, more atterition is paid to the young colt than to the other classes of young stock on the
due possibly to the higher value of the hore, due possibly to the higher value of the horse, al
at the present time a cow is a close rival standpoint. As with all pregnant animals, th standpoint. As with all pregnant animals, th
requires steady and regular exercise, with a supply of wholesome feed. Work does not huit supply of wholesome feed. Work does not hurt
provided the ground is not slippery, the draw is stea and there is no sudden backing. Using her on wagon over rough roads is not a practice to be con The mare may take her place in the team during see ime. Care should be taken, however, th oats and bran, with a few roots every day, make ration, as they are nourishing and have a la effect. The mare in a good, strong, thrifty condi is better able to stand the strain of parturition than fat, unexercised mare. The shrinking of the and parts back of the hips may be noticed a wee
vious to foaling. Four or five days before thi vious to foaling. Four or five days before the rrives the teats beome filled, and when wa on the ends, parturition will not be long delayed. S on hand so as to look after the colt after it is bon
If the colt is to be born in the stable if is impp hat the stall be be born in the stable it is impor t is a stal be thoroughly cleaned and disinfea rule, the greatest success is obtained when the is on pasture. The fiesh grass has a beneficial on the system, and there is less danger of disease in stable. As with in the field than in the one born in require attention in order to assist them to take noil ment. Very often, too, the young colt is croon most of them straighten up, and when a few days is cross the weak colt needs attention. It is somet necessary to tie and hobble the mare to get her fo all young colts, and if Constipation frequently occurs it eakness. Some not attended to will soon result in a injection some give a tablespoonful of castor on eeding unsalted warm water; others have found or ther trouble. If the meconium is not expelled after injectons, it should be removed.
Joint-ill or navel-ill is a disease which proves fatal with many foals. Preventive measures should be tal
When cutting the cord, use a clean instrument with a string that has been a clisinfected. Apply tincture of iodine and dress it four or five times daily with trong disinfectant until it is dried. Any of the cona ar products may be used for disinfecting, and The mare should be given warm drinks and am
for the first day or two: If seasonable, there is place to equal the pasture for the mare and colt. justice to the mare she should have two or three weeks she should not be given a full day's work. Leave th colt in a box stall so arranged that it cannot injute warm from working in the field. Permitting the colt to It sometimes happens that the colt is left an orphani
It som ther It may be reared on cow's milk, but it is necessary to modify this slightly. A tablesponful of sugar may be
issolved in warm water, three or four tablespoonfuls of limewater added, with enough milk from a fresh eyery hour or two at first, and a quarter of a pint tis

may be less frequent and given in larger quantities.
is important that the milk be fed at blood heat. As a rule, the farmer or stockman has plenty of
work in the field to take his attention, but even so he should not neglect the young things which are arriving
to increase his herds and focks It is important that the young get a good start, and this they cannot do if care of pregnant animals, and of the dam both during

## A Successful Shorthorn Sale at

 LondonThe Western Ontario Consignment Sale Company in London, March 23 and 24, and were again favored with ideal weather. From a small beginning, this sale has grown into an event of great importance and is one or the eargest annual sales held in the Province. Square
deal on the part of the management is to a large extent responsible for the confidence which consignors and purchasers place in the sale. Breeders from all parts of the Province, as well as from many States in the
Union, make a semi-annual pilgrimage to London and take home with them some of the good things that are consigned by Shorthorn breeders of Western Ontario. Since the sale was first inaugurated there has been a consequently then consequently the averace price received has steadily
increas?d. Last fall sixty-eight animals made an average of a little over $\$ 300$. The top price of the sale was $\$ 755$. This spring, one hundred and thirty-one animals averaged $\$ 367.86$, with a top price of $\$ 2,800$,
paid by Carpenter $\&$ Carpenter of Barboo Wis paid by Carpenter \& Carpenter, of Barboo, Wis., for
Broadhooks Prince, a ten-months-old roan bull, consigned by George Gier \& Son. This calf is an outstanding individual of sexcellent conformation and pronounced Shorthorn character and quality. He is sired by Escana Champion, and is out of Findon Broadwas first in a large class of junior bulls, and also the champion of the show which was held previous to the sale. Messrs. Grier also consigned the first-prize junior heifer and the champion female of the show in a straightbred Shepherd Rosemary, also sired by Escana Cham
pion. She went to the bid of E. Rohson, Denfield, a

## the contributors and visitors to the sale. There were six classes with prizes ranging from $\$ 20$ to $\$ 3$. There

 six classes with prizes ranging from $\$ 20$ to $\$ 3$. . Therewas as good a showing in the classes as is usually seen at our larger exhibitions. Several of the winning following are the awards:
Bull, junior: 1, Geo. Gier \& Son, on Broadhooks Prince, 2, R. \& A. Murrell, on Browndale Regent; 3, R. S. Robson, on Vermont Chief; 4, J. White, on Láncaster Lord; 5, R. \& S. Nicholson, on Gor
Junior; 6, Wm. Waldie, on Collynie Mark Imp. Bull
Impor senior: 1, J. T. Gibson, on Sultan on Lord Chesterfield; 4, R. \& A. Murrell, on Browndale Courier, 5 , W. O. Sale Company, on Browndale Eclipse; 6, P. Stewart \& Son, on Royal Lustre. Cows with e. Brien
at foot: 1, H. Smith, on Parline Mollie 3rd; 2, E. at foot: $1, \mathrm{H}$. Smith, on fly; 4, J. McLean \& Son, on Canadian Roan Lady 20th 5, P. Stewart \& Son, on Maid of Varden; 6, R. S. Robson \& Son, on Gipsy Gem. Yearling heiters: 1 , Wm, Royal Lustre. 3 Kyle Bros, on Lady of the Valley 13th 4, J. White, on Queen's Gift; 5, J. McLean \& Son, on Roan Lady's Best, $6 ;$ R. S. Robinson \& Son, on Augusta Pansy Blossom. Senior Heifers: 1, Kyle Bros., on Orange Blossom 117r; 2, Geo. Grier \& Son, on Matchles on Cherry Blossom 8th: 5 , Oestreicher Bros., on Mis Ramsden 3rd. 6, W Ruston, on Princess of Butter flies 2nd. Junior Heifers: 1, Geo. Gier \& Son, on Rose mary; 2, R. S. Robson \& Son, on Red Bellona; 3, Wm Dorothy: 5 F Mc onald \& Son, Mina Jewel. 6 Wry Waldie on Winsome Maid. Champion bull. Geo Gier \& 'Son, on Broadhooks Prince. Champion female Geo. Gier \& Son, on Rosemary
On the evening of March 23, many of the consignor and visitors to the sale met in Hyman Hall, where the frere entertained with exceltent Captain T F Robso occupied the chair. Professor Wade Toole, of the O. A. C., Guelph, gave a short address, in which he emphasized the fact that our commercial cattle depended upon the quality of sires used, and intimated that the class of
stock going on to our markets was not a credit to the stock going on to our markets was not a credit to the
live-stock industry. Figures were given to show the


Line-up of Junior Heifers at London Show 8980. Kyle Bros. had the first-prize senior heifer
Orange Blossom 11th, a white calf with and eharaeter. She was purchased by Carpenter \&
Carpenter for $\$ 710$. She is sired by Oakland Marquis. A Lady of the Valley heifer, from the same herd, and ired by Sea Gem s Pride, was purchased by E. Robson hird in her class. The Experimental Farms, Ottood secured a dark roan, eleven-months-old Lancaster bull calf for $\$ 600$. He is a deep, thick, sappy individual, nd borthis sire and dam are imported. He was consigned by J. White. James Chinnick consigned a
Butterfly-bred, seven-year-old cow that sold to G. Auld for $\$ 1,200$. She is a cow of splendid Shorthorn character and is a show individual. By her side was a roan heifer calf, sired by Lancaster Reserve, and she is again in
calf to the same sire. Griswold Bros. paid $\$ 805$ for a A straight Nonpareil five-year-old cow, consigned by Hill, at $\$ 835$. She had a red heifer calf at foot, sired an Rrowndale Winner. J. McLean \& Son consigned rosnell at $\$ 930$. She had a roan heifer calf by her priced female of the sale was a three-year-old Duchess






 value of using good sires. In regard to the future
market, the speaker believed that live-stock men har market, the speaker believed that live-stock mien had
little to fear, provided they produced animals of high quality. On the other hand, the man who is content
to feed and breed mediocre stuff will find increasing difficulty in securing a profitable market for it. in which he dwelt on the history of cattle breedling fron the very beginning, and showed how that centuries ago breeders endeavored to secure quality and vigorous kept for Ontario breeders, rather than allowing them th head the herds of breeders outside of our boundaries,
so that the sons of these bulls may be available for the benefit of Ontario breeders. The commercial end of the live-stock business is very important, an 1 the speaker
pointed out that quality of breeding stock and commercial stock should be the watchward. The best is purchasing of the champion bull in Scotland by Mr Shorthoras had won a prominent continured to show how industry, and he was very optimistic regarding the futur Ross of Ohio Archie McCoig, of Chatham, and Peter interest to the large audience adresesses which were of entertainment was instructive, and much enjoyed by The sale was under the direct management of Messrs. H. Smith and T. A. Attridge, and everything possible
was done to arrange for the comfort and convenience
of the large crowd which wes in went off without a hitch. A large number of animals
were sold in record time by Captain T. E. Robson hosi-t ed by Mesors. McCoig, Iadlaw and Johnston.

hermy Blomom sh, Critiwold Bros., Livingstone,



Nellie Lind, Jas. Cormie, Elor Ontario Lily, A. J. Erquhart, Ramsden Queen, R. \& S. Mur Lady Dorothy, Griswold B. Oaklands Fanny, Morning Rosebud, F. W. D. Calf Club Nonpareil Gem 1lth, E. G, Emers
Fanny B., M. Winn, Lucerne, In Marquis Belle, W. G. Kelly, Y
Red Lady 2nd, I, Redmond Red Lady 2nd, J. Redmond, Ke
Oaklands Amine, Pettit Bros Wallfower. J. F' Settit Bros., Fre

## Mildr

Rings Princess, E. H. Gillett, Chatham
Miss Lamy's Best, L. Gosnell, Highgate.
Miss Ramsden 11th, F. W. Scott \& Sons
Village Princess, H. M. Lee, Highgate Amine D., Griswold Bros
Lady Ury, W. J. Bowes, Markdale Miss Aberdeen, Griswold Bro Ury Rose, H. C. Robson

## H. Bolto

 Queen Elizabeth, T. W. Douglas, Strathroy....Glendower Ruby, P. G. Ross, Mansfield, Ohio Lavender Pride 2nd, Griswold Bros Lovely Missie 2nd, J. B. Snyder, Florada Mina Lass, Carpenter \& Carpenter, W Cantilius 8th, W. R. Green, Fergus Aaggie 9th, F. W. Scott, Highgate Nonpareil Lady 8th, W. Ruston, Science Hill. Merry Evening, A. A. Bragg, St. M
Queen's Gift, E. Robson, Denfield Pansy Ramsden, T. W. Douglas Princess of Butterflies 2nd, J. D. Brien, Ridgetown Helen Corday, E. Robson.
Mina's Crape Mina Jewel, Griswold Bros Red Bellona Griswold Bros Lady Rosewood, G. M. Dodg Highgate I.ass, F. B. Gosnell Highgate Lady, A. Mc Tavish, Shakespeare...... Lady Chesterfield 17th, J. F. Stewart Tilbury Princess Royal of Sunnyside 3rd, F, L. Lewis Ivy Buckingham, Carpenter \&
Ma xon Queen, E. H. Gillett Fanny Countess, Griswold Bros Bonnie Butterfly, G Auld Guel Grace, E. Robson
Red Rosebud, G. Duncan, Glencoe Red Primrose, Robt. Herron, Ashbu Princess Molly 2nd, E. Harding,
Oaklands Gloster, A. Leatherdale Lady Mina, Griswold Broserdale Ridgetown. Miss Ramsden 3rd, Carpenter \& Carpenter......... Fluffy Cirl, G. M.
Rosy, J. Redmond
Rosy, J. Redmond
Donovan, Chathan
Corelli 3rd, F. J. Currie, Markdale
Strawberry Blossom 10 th, Griswold Bros Lady Violet, F. W. Darbv Florence, J. A. Stanton, Thame
Patline Moilie 3rd, E. Robson
Matchless 12th, F. W. Darby
Augusta Pansy Blossom, H. C Matchless 20th, T. W. Douglas Red Ladybird, Griswold Bros....
Roval Beauty 2nd, H. J. Poland
Sadie CIloster, F. W. Darby
Scottish Lass, J. T. Smith, Thedford Winnie Gloster, J. M. Dodge
Molly Buckingham, W. T. Moore Ruby 1bith, Bruce Co. Calf Club.. Orange Blossom 11th, Carpenter \& Carpenter Rosemary, E. Robson

Males.
Collynie Mark (imp.), Griswold Bros Marquis Prince, H. Plumsteel, Clinto Marquis Surprise, F. L. Lewis
Gloster Heir, A. Bowering, Lambet Oaklands Rex, Jas. Pringle, St. Mary's
Mountain Side Boy, R. Menzies, Listowel Jasper Marauis, P. McKinley, Tecumseh Broundale Eclipse, H. Robson Captain Alan, S. M. Reader, Shakespeare. Vermont Chief, H. E. Shaver, Embro Crimson Stone, A. Smith, Embro
Fairholm Champion, H. C. Robson Elmdale Crown, V. Bowes
Nonpareil Baron, L. Griffith. Byron Nonpareil Baron, L. Griffith, Byron
;ay Marquis, Geo. Birch, Harrow Silver Chance, C. McFee, Ekfrid Clipper Lad W. J. Nairn, St. Mary's Craiglea Lad, J. Aitcheson, St. Pau
Red Iord, H. McCorquodale Embro Red Iord, H. McCorquodale, Embro
Prince of Scots, F. S. Bancroft, Mt. Bryd fes Pultan Hero, E. Robson
Marquis, A. McIntyre, Burfor Lord Chesterfield, Russell Bros.. London
Browndale Courier, I, Buchanan, Thamesville Browndale Regent, T. S. Shantz, Kitchener Orange Victor, A. J. Erquhar

APRLL 1, 1920

Gold Drop Junior, T. W. Douglas Lancaster Lord, W. J. McGregor, Muncey jilts Butterfly, C. J. F. Stewart, Tilbury Crown Diamond, T. W. Flanningan, Londo sir Mortimer Rosebuu, Bingham, Thorndalc flenlea Beauty, J. Cunning ham, Thorndalc....
Pictor, Ramsden Victor, R . Carpenter \& Carpenter.

## THE FARM.

Selecting Seed Corn for Silage Crops.
By P. L. FANCHER, Ontarions, that every purchaser There are a few questions, that every purchase
seed corn for silage will naturally ask himself Among these are at least three importan Will it mature in my locality? And will it yield a fair amount of silage? Most of these questions cane of both the ear and the kernel of corn. every other variety, but some varieties differ far more every others. Nearly every variety and strain of den corn grows a stouter stalk than the hist varieties, an most of them grow taller. The same is true in the time required to mature If, however, a dent variety is carefully selected and bred, it can be matured as early s the later varieties of flints; but it will produce a smaller stalk and ear than of this early dent is sold in Ontario at present. There is often a greater difference in tons of silage produced, between strains of the sam variety than there is not unlike breeds of live stock Take for instance, the well known breed of Clydesdale of them. Some are of the heavy draft type, large, thick, heavy-boned horses, with plenty of substance.
Thereare others that are not so large, and still some others hat are smaller yet. These are finer in the bone and slimmer in the body, but may have just as gocd
quality as the heavy horses. They are all pure-bred Clydesdales, but they differ. So it is in corn. There are strains in every variety that produce larger and later ears than other strains of the same variety, and they This difference is due
mas equally well bred. to breedin
the horse.
The great difference in time of corn, is due to the size and shape ar borth the ear ane of the stalk Since we can only know the height of the ear on the stalk from looking at it while growing, we will not discuss which can be seen at the time of buying seed corn. Ilustrate the differences. The larger the ear both in length and circumference, especially circumference, the ater the corn will be in earlier it will be in maturing. There may be as much as three weeks difference in
time of maturity between the largest and smallest ears time of maturity between the largest and smallest ears
shown. Then too, the roughness of the dent is a factor controlling maturity. A variety of corn with a rough dent is generally later in maturing than the same size ears not so roughly dented. Look at the kernels from the ear is, the longer and rougher dented are the kernels. dented are the kernels. with the yield in tons per acre, as well as maturity. Generally speaking, a late maturing corn, not ony
grows larger ears, but also grows larger stalks. The grows larger ears, but also grows larger stalks.
height from the ground that the ear is borne on the stalk is also a controlling factor in yield in tons of silage per acre. This, as we said before, can only be observed
from the growing crop. If an early strain of anv variety from the growing crop. If an early strain of any variety
of corn is wanted, choose one that has uniformly slim ears, with good kernels, that are not too long. Guard against any strain of dent corn, that has very short,
rounded kernels with little or no dent. These strains a a rule produce small stalks and fewer ears of a good size.
Any variety of corn will germinate well if it has been properly matured one or all of three reasons. It may have been planted oo deeply to ever reach daylight. An inch and a half is deep enough if the soil is in good condition and there is
moisture at that oo wet or gets too much cold rain after planting. This the fall will rot more easily and grow less vigorousl all season than corn well dried early in the fall. Then drying of the mare often is, due to the lack of proper
few years in the fall. There are very to produce good seed if properly dried. At the time of
husking, corn contains a large amount of water, that must be dried out of it before zero weather comes. Corn
may be fully mature in the fall, but if it is husked late. or if it is put in too large or too tightly sided cribs, it wil
not dry out properil. If the corn contains a large

THE FARMER'S ADVOCATE
typical specimens of variety named, shall be well cured and shall be capable of germinating at least 95 per cent:
ino. 1 seed corn shelled shall consist of sound; reasonably uniform and typical kernels of the variety named, shall be well cleaned and graded, shall contain not more than 16 per cent. moisture, and shall be capable
of germinating at least 95 per cent,., Every purchaser of seed corn should know and de mand the per cent. germination of the corn to be bought
as determined as determined by an official test.
should grade No. 1 as defined above.

An Agricultural Conference at

## Ottawa

A successful conference was held at Ottawa on March
17, 18 and 19, when the Deputy M Ministers of Agriculture and heads of various branches in the provininces met the
 cussion of the whole work conducted by the Dominion
and Provinial Departments. There has been no definite and Provincial Departments. There has ben no definite
line drawn in the past between feferal and provincial Work, and in fact the line is is not any too distincty yet, but certain principles were laid dow and endorsed by the
renresentatives and these will form the basio
not representatives and these will form the basis of an understanding bet ween the federal and provincial departments. Toward the end of the conference several resolutions
were introduced which crystallized the opinions and
 doubtut, the futur anctivities of the e Feder) and Provet, no
Governments along atricultural lines Governments along agricultural Inines. Dr. J. H. Grisdale,
 Honorabe
time, taking a deep interest in the deliberations of the time, taking a deep
One of the big questions before the conference was
the ematter of experimental and reseerch work and who should conduct it. After a free and open discussion of the matter it was fnally decided that it was neces-
sary to continue the investigational, experimental and research now carried on at the provincial agricultural colleges but work of this nature detached from the
conleges should come under the jurisdiction of the Federal Department. All were agreed that the provincial authorities should be consulted, however, and provision was made, in the resoution covering this subiect, for provincial avyisory counciss dilve stock and field crop
topics were siven a treat deal of prominence and probblems arose in connection with the extension of
 departments that remained unsolved for want of a co-operative or tolerant spirit on the part of officials
present. The conference was a a decided suuceas and present. Mue conference was a dectaed succeas and
will do much to harmonize the departmental activities of the Federal and Provincial Governments.

## Canadian Seed Growers' Annual Convention.

The annual convention of the Canadian Seed Grow ers' Association was held at Ottawa on Saturday March 20, with the President, Dr. James W. Robertson, presiding. The attendance was small and was no nex the it is Association, or the good work it is doing in maintaining the purity of our seeds and distributing them throughout the country. Members of the Association are scattered throughout Canada, from ocean to ocean, and distance prevents
many from attending, unless they are officers whose presence at the annual meeting is a necessity. Hono was present and expressed his appreciation of the goo work the Association is doing. The Minister stated that he was interested in good seed, and realized its importance to the country. He paid a tribute to plant breeders. and said they had never been given the promi-
nence they deserved nor had they been recognized suff ciently for their good work in the interests of agriculture. "They are the Cruickshanks of the seed business,"
the Minister said. Dr. J. H. Grisdale, Deputy Minister the Minister said. Dr. J. H. Grisdale, Deputy Minister position occupied by Canada in the markets of the world and said that we needed a campaign for good and
better seed. George H. Clark, Seed Commissioner commented on the success of the Seed-Purchasing part of the work of the Canadian Seed Growers' Associa tion. Mr. Clark discussed briefly the achievements of Canada in producing her own root and vegetable seeds, and said that now ninety-five per cent. of the turni seed required in Canada was produced at home. He come "the seed garden of North America." The Seed Commissioner also introduced an important resolution making it possible to multiply from pure foundation seed without requiring mass selection. As a substitute suggested rouging. This matter was left with the

The Secretary of the C. S. G.. A., L. H. Newman read a very long and comprehensive report, which and which contained also suggestions for future act year One of these suggestions was the centralization of th registered seed trade in the West through the medium of elevator facilities, where the seed could be received, cleaned, bagged and dispatched to purchasers. The
Secretary's report furthermore revealed a Secretary's report furthermore revealed a growth in
memberships and enthusiasm among producers of pure

THE FARMER'S ADVOCATE
seed. Last year 1,111 farmers purchased registered seed for use on their farms dent, and the directors are. G H Hawden Bresis Columbia; Prof. G. H. Cutler, Alberta; Prof. G. H Bracken, Saskatchewan; George Dow, Manitoba Justus Miller, Ontario; R. Summersby, Quebec;
Palmer, New Brunswick; Dr. M. Cumming, Nov Palmer, New Brunswick; Dr. M. Cumming, Nova
Scotia: W. MeGregor, Prince Edward Island; and Saegar Wheeler, Saskatchewan. I
Ottawa, is the Secret

## THE DAIRY.

## Perth District Holsteins

The Perth District Hoistein Breeders held their third annual sale in the city of Stratford, on Wednesday eached, the splendid average of $\$ 228$ was made on the over, sold for $\$ 5,380$, an average of $\$ 269$, and 13 heifer wo years and under, made an average of $\$ 223$. Ther were y young burs, sest dams, and these brought $\$ 910$. The total low ceeds for the day were $\$ 9,195$. Georgina Grange, a six year-old daughter of Homestead Colantha Sir Abbekerk, made the top price for the day. She had a $16.84-\mathrm{lb}$ seven-day butter record, made as a junior two-year-old Re-stablishment at 8370 . Following is a list of the nimals sold for $\$ 100$ and over, together with the names and addresses of the purchasers
Countess Calamity, W. N. Jeffrey, St. Paul $\$ 250$ Alcartra Butter Princess, J. S. Granter, South- 305 Nora Lyons, I. ... Archibald, Seaforth Artis Posch Pietje, , Adolph, Gowanstown
Greenfield P. W. Lass, Robt. Dunn, Owen Soun Georgina Grange, Dept. Soldiers' 'Civil Re-estal
lishment Neirop Netherland Alcartra, E. J. Eckert, Sebring Snowball Grange, Dept. Soldiers' Civil Re-estabist Perrina Butter Girl, J. S. Trawter, Southampton. Mercena De Kol Scott, H. Morrow, Stratford ineview ewel Pontiac Schuiling, Jas. Finnegan, Stratford Sunnyside Alcartra Lad, Jas. Newbigging, Atwood sadie Pietertje Calamity, Geo. Jackson, Stratior unnyside Alcartra Susie, Dept. Soldiers Civil R Nettie Ormsby Me Bull, J. J. Innes, Strat ford Vina Korndyke De Kol, Fred Dunseith, Stratford schuiling Maid Girl, W. D. Grey, Newton Gipsy Abbekerk Baroness F F Willows Alics Achuekerk Boroness, F. Willows, Carling ford. 260 Sunnyside Alcartra Polly, A. Steinacker, Stratford.. 145 Imperial Segis Calamity, John Hargraves, Listowel. atricia Ormsby Mechthilde, C. Ruby
lechthilde 180 May Pontiac De Kol, Dept. Soldiers' Civil Re Duchess Pontiac De Kol, S. R. Jermyn, Granton
Marioold Grange, Dept. Soldiers' Civil Re-estab lishment
Della Pontiac De Kol, Dept. Soldiers' Civil Re Della Pontiac
establishm Postabistment .......................... Rosarden Segis Josie, Geo. Wickie, Sebringville
Rosarden Ann Posch, Dept. Soldiers' Civil ReRosarden Ann
Rose De Kol Snowball, Otto Nickel, GowansRose town....................... Cun R Rose Grange, Dept. Soldiers' Civil Re-establishColanthus Zozo, Dept. Soldiers' Civil Re-estabLady Jane Dewdrop, J. Archibald. Perrina Faforit Butter Girl, T. A. Trick, Clinton..


## A First Prizeq̣Three-year-old Ayrshire Female

at Toronto

## The Oxford Club Sale

At Woodstock on Wednesday, March 17 , the Oxford District Holstein Breeders' Club held their annual sprin sale and disposed of 59 females and 12 young bulls, for which they realized the splendid sum of $\$ 18,535$, making a general average of $\$ 261$ throughout. Forty one cows, three years old and upwards, made an averag and the 12 young bulls made an average of $\$ 203$. The top price for the day was bid on the seven-year-ol $25.28-\mathrm{lb}$. daughter of Brookbank Butter Baron, Victoria and went to Wm. Robinson of W. Currie, of Ingerson Mr. Robinson secured seven head for which he $\$ 50$ an average of $\$ 390$ per head. He was by far the larges purchaser for the day. The top price in bulls was paic by Hugh Mitchell, of Niagara Falls, who purchased the year-old calf, Prince Colantha Echo, from A. E. Cornwel Prince Echo Sylvia, a grandson of May Echo, and his dam was a $19,456-\mathrm{lb}$., R. O. P., three-vear-old grand daughter of Dutchland Colantha Sir Abbekerk. $\mathrm{Mr}^{2}$ Mitchell may well feel that he secured the bargain of the and over, together with the names and addresses of the purchasers

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  . Oceola Scadeland, W. C. Prouse, Tillsonl
Ena Alcartra Nether Ena Alcartra Netherland, W. F. Hodges, Wood Alfaretta Posch De Kol. John Loney, Newton.... Alaretta Posch De Kol. John Lonev, Newton.
Baroness Mercedes Pansy F. H. Peer, Norwich.
Anna Mercena. J. D. Sibibid. Anna Princess Mercena, Biggar Bros., Oakville.... Victoria May, Wm. Robinson
Bluebell Wayne Bluebell Wayne Jongste, J. Hodgins, Welland_- ${ }^{500}$
Abbekerk Gray Lass, B. B. McCarty Then Canary De Kol Albino, R. S. Gillespie Inameskord. Colantha Beauty, C. W. Haeger
Ivy Lodge Rose Posch, E. Nevill Ivy Lodge Rose Posch, E. Nevill
Ivy loodge Rose De Kol, N. Cocker Dot's Segis, B. H. Pullin, Ingersoll
Dot's Pride, Chas. Orum, Woodstock Pauline Calamity Mercena, Wm. Robinson Patsy Hengerveld, R, Tay, To Ir., Woodstock
Cornelia Pontiac Sékis, I. H. Schell, Woodstock Cornelia Pontiac Séeis, J. H. Schell, Woodstock Pauline Pontiac Netheriand, E. Nevill. W. Bedion
Lowlands Pontiac Colanthus, R. Lowlands Pontia Queen Pontiac Canary, E. Readhead, Eastwood. $=2200$ Calamity Belle Butter Girl, J. H. Turner, Milton... 12 Pauline Aaggie Beaury, ${ }^{\text {Pioneer }}$ Aaggie Harto. ${ }^{\text {P }}$ Prouse Pioneer Aaggie
Pioneer Snowbird Wayne, Robt. Bowie, Beachville. 2000 May Pride De Kol, J. D. Sibbald.... ${ }^{20}$ Nogi I Isabella Walker. Chas. Orum
Pauline Butterfly Pauline Butterfly De Kol, Russell Bryant, Strathroy 20 Korndyke of Campbelltown, Wm. Robinson..........200 Baroness Klondyke C I Venning, Mossley..... is Lady Segis Colantha, N. Cocker
Baroness Lucy Hengerveld, Biggar Bros, ....... 100 Pauline Colantha Abberkerk, A. E. Hulet, Norvich 40 Lottie Calamity Posch Wm. Rohinson - 40 Center View Lady Colanthus, Ross Smith, Oxford Nina Mercena Posch, Biggar Bros.
Irish Molly 2nd E. Nevill Bleske Cornucopia May, F. H. Peer. Nancy Korndyke Segis, J. D. Sibbald
Daisy G. Mercedes, J. D. Sibbald......
Males

Albert Canary Sylvius, Roy Siddell, Denfield.....200 Colantha Fayne Cornucopia, Geo. Yeo, Innerkip. 140 $\begin{array}{ll}\text { Alcartra Champion Keyes, W. H. Kerr, Hamilton } & 180 \\ \text { King I Yons Io } \\ 205\end{array}$ Prince Colantha Echo, Hugh Mitchell, Niagara Sovereign Alcartra Keyes, I. Walton, Innerkip...... 150 Sovereign Alcartra Keyes, L.. Walton, Inrethi......
Prince Abbekerk Colanthus, R. McLeod \& Son, Midn Embt Butter Boy, A. Small, Putnam King B. B. Fayne. Russell Sage
E.ho Sylvius, Alex. M. Davidson, Newton Crince Dcho, Chas. Orum , Colantha Posch, A. E. Bistop, 145 Baron Mechilde Schuiling, B. B. Kipp, Woodstock. 110

## Glenroe Farm Holstein Sale.

 On Thursday, March 18, F. V. Heeney, of Ingersol, held a dispersion sale, when 32 head of high- his wasBlack and Whites went under the hammer. one of the best Holstein sales of the season, especialiv
when it is considered that there were very few high records. The cattle were in the pink of condition and extraordinary fít. So careftuly groomed were they not a stain was to be seen on heir bodies. wre obtained
brisk at all times and remunerative prices were The highest priced animal of the sale was Gray De Kol Colantha, a five-year-old cow, due to Ireshen in April) Jhe was sired by Sir Colant ha Dewdrop, tracingto bect by
land Colantha Sir Abbekerk. She was seured W. Prouse, of Tillsonburg, at \$155. The Provincial Sccretary's Department secured five head for their
farmis. These were good individuals with indication of healy milk production. Following is a list of the animals
selling for $\$ 100$ and over, toget her with the names and addresses of the purchasers.
King Marion Midnight, Robt. Harris
(:ilenroo Segis Alcartra. Wo. Batten
(ilenroe Calamity De Kol, Geo. Way, Ingersoll..
Snowball Alcartra, I. W. Nichol. Ineersoll Snowball Alcartra, J. W. Nichol, Ingersoll Christabelle Snowball, Wm. Batten.



## ilk sharp watch should be kept on them to see that they

in keeping the pails clean and sweet. Sour skim-milk
can be safely fed after the calf is about three months old, if the calf is gradually made accustomed to it and be fed entirely. Though skim-milk is the best feed on which to rear calves, sweet whey can be used, if the change is gradually made from milk to whey and the flaxseed or other jelly added the same as to skim-milk of hay tea has been found of help. This is prepared by boiling cut clover or timothy until a strong tea is obtained. This is fed exactly the same as milk. Calves may profitably be kept on skim-milk or whey till six or seven months old, and if extra size is desired it may e kept up until ten months.
The pasturing of calves under six months old is no feed in more concentrated form than does the olde animal. Grass, therefore, has so much bulk in comparison with the nutrients supplied, that the calf system cannot handle it economically until developed by age. Moreover, the thin skin and fine hair of our dairy calves cannot well stand the blistering effect
of the sun and flies when pasturing in the open. calves will do much better if kept in a dry pen or shed where they can be conveniently fed If pen or shed darkened during the heat of the day, the flies will not cause much trouble. When, however, they have reached the age of six months, and the worst of the heat is over and exceedingly well if the win do well to be turned out grain (say one or one-and evalf ong ond mand a little be continued for a month Calves that h, per dad run at pasture during the fall months usually get thin, but seem to feed and grow better during the ensuing

## THE APIARY.

## Moving Bees

## Epin Tur Firn

$\qquad$ hem at least a mile and a half or two miles away, the they are placed. As, soon as they are liberated in their
new position they will mark the location as thor and carefully as when taking their first flight. After that they will go to and from the same spot as if it ha
always bren their home. But to move bees from front to the back yard, or from a fourth to a half mile, is not so easy. They are familiar with the whol they go over their old hunting old stand, and when instead of returning to the hive from which they have,
just come they will return to the old location. How just come they will return to the old location. Ho and the very best one, is to wait till fall or winter, and atter they have quit flying for the season move them to
the spot desired if they are confined a week or two
weeks by cold weat her or longer new location and go back to it as their regular thein vermanent home. It will be better still if they can be confined for several months in the cellar; then when
they are put out again in the spring place them in the
new location: far it is well be placed anywhere the following spring without reference to their old stands. Wherever they are placed
they will mark their location, and that must be their fixed position for the season. Moving the Bees in Sumaze.
But suppose it is in the midst of summer and for Some reason the bees must be moved a few rods from
their old location. Peerlapes complaint is made that the bees in the front yard are interfaint is mathe that the
and to avoid troulbe it semems desiralle to po move the



Ther for at leat five hasy and loper if they appernt

$\qquad$
do not suffocate, and, if practicable, the whole top of
the hive should be covered with wire screen.
There is still another method, and wherever it practicable to carry it out it is better than carrying then into the cellar: that is, move the bees to a point a mile
and a half or two miles from the old location. stay there two or three weeks, then move them back stay this involves considerable labor, so that the average
But person would not think it practicable. Another plan that has been spoken of very favorably, and possibly may be better than any of the others mentioned, is this: In the cool of the morning, or at any time of the may be moved a few feet or a few rods with very little trouble. The hives are put on a wheelbarrow early in the morning, and trundled as roughly as possible atter smoking at the entrance, clear over to the new location, for it is important that the bees get a general shaking
up in moving. If the frames are self-spacing there will be no harm done to the bees or combs. The hive i set down on its new stand, when it is given a little more smoke. Any number of colonies can be mioved in this way, but the moving should be done at once and the as possible. Should be changed in appearance as much But here a precaution must be taken. The bees should not be moved a short distance when a honey flow i on or has been on for two or three days. When they have been going tar larly tor fields for a numbe almost imposible to move them short distances at such times without a general returning of field bees to the old stands. A certain person said that he attempted to move bees to a neighboring lot when the honey flow was on, and he said he never saw crosser bees in
his life. When, therefore a neighbor complains that his life. When, therefore, a neighbor complains that
the bees are interfering with public traffic along the high way, and they must be moved at once, one must take
not. If so, an explanation should be made that movin bees at such tit
of much worse.
Another plan has been tried that gives good resulfs out this, like the other, must not he attempted when honey flow is on. Move the hive a few inches a day
and each time make a bigger jump than the one pre and each time make a bigger jump than the one pre
ceding. After the bees have been moved in this way from two to five times they learn to expect a change in location, and therefore will hunt out their hive where ever it may be. Sometimes in such moving it is ad
visable to put up a board against the entrance, just after Moving, in order to arrest the attention of the bee:
when they come out. This forces them to mark when they come out. This forces them to mark

Ordinarily, as a matter of convenience, the ber honey flow is on siving the bees ne morning, when no honey flow is on, giving the bees as much of a shake-up
as possible, but, of course, not violent enough to breat the combs.

## POULTRY.

The Egg Type in Hens.

## that there is a distinct egg type in hens, by which with

 $\pi$ knowledge of the indication of good egy laying abilit) an experienced poultryman or a careful anateur mayfairly accurately arrive at the usefulness of an individual


Ahite Leghorn Cockerel
$\qquad$

|  | Perfection | Production Value |
| :---: | :---: | :---: |
| Body type (as seen in coop or on floor). |  |  |
| Head and Adjuncts | 25 | 75 |
| Body Conformation (as de- |  |  |
| termined by handling) | 30 |  |
| Handling Quality. | 10 | 90 30 |
| Legs and Toes .... | 5 | 30 |
| Condition | 15 | ${ }_{45}^{15}$ |
| Total Perfection Score | 100 | 300 |

The above score card is designed to apply to hens the following descriptions of the various sectione card aid in a common understanding of the various ideal sought

$$
\text { Body Type } 25 \text { Points or is Eggs }
$$

A bird of good body is usually well balanced in that gular form, well developed in breast and rectan Great depth of body is especially desirable, but depth does not count. Cochin and exhibition thigh feathers feathering are usually associated with game type ani Large capacity is essential if a hen is to pyaction heavily. Such capacity is designated by a long and is deeper at the rear end of the keel than at the front end when in laying condition. The underline should be fairly stralght and the back shoulf be comparativei horizontal. Prominent breast cevelopment, with evi producing then. The general body conformation high heavy producer conforms very closely tormation of a with pronounced angles rather than smooth curves. male shows the same general characteristics as a female except that the abdomen is not so deep. A small capacity hen generally stands erectly. The and abdomen very shallou and cut away at the breast abdomen shows a pronounced sagring maividuals, the keel due to large accumulation of fat Extremely poo producers frequently show a hump on the back

Head and Adjuncts 15 Points or 45 Eggs,
One of the best indications in picking high layers is ducer is fine, showing a lean face, free from wrinkles and over-hanging eyebrows. The wattles and ear lobes fit close to the head and are not loose and flabby The face is clean cut, the eye is full, round, and promihent, especially when seen from the front. An eye which gives a clean cut wide-open appearance is desirable.
The eye-ball of the heavy producer is the rear of a large oval socket, showing considerable The white eye membrane in front of the eye-ball. being moderately deep and broad. The extremely fat, full head of the beefy bird and the long, thin pointed head of the low vitality bird are both undesirable and should call for heavy cuts in this section. The low producing bird generally shows a depressed eye with
overhanging eyebrows and wrinkled skin at the back
 possessed by the low producer, while the medium stont moderately well-curved beak is characteristic of the high producer

Body Conformation 30 Points or 90 Eggs. When taken in the hands a heavy producer will show, y the sense of touch, great depth of body, especially
at the front and rear of the keel bone. The keel must be moderately straight, relatively long, and carried well back. The space between the pelvic bones and the
keel must be free from excessive accumulations of fat. kee must be free from excessive accumulations of ated by the development of the abdomen. Such birds will show pelvic arches which are widespread and a keel to give large capacity:
The poor producer generally shows a shallow body especially at the front of the keel: a small shrunken Hindlitg 0 mity 10 Points or 30 Eggs.
The skin of the heavy producing hen is thin, soft and pliable, especially the skin on the abdomen must be
thin and loose. The skin of the poor producer is generalthin velvety skin is almost always associated with

The shanks of a heavy producer are flat and smooth scaled, the tendon at rear of shank is prominent and pullets which have been laying heavily for some time, pullets which have been laying heavily for some time,
the shanks will be bleached out. The toes should be straight and the toe-nails show indication of proper
activity. The shanks of the poor producer are usually
production. In applying this section to hens, health and moulting conditions should be given primary considerand maturity should be given primary considera conside
health a
tion.

## HORTICULTURE

Marking of Fruit in Open Packages. We have been informed by C. W. Baxter, Frui Branch to rigidly enforce sub-section three, of Section Branch to
320 , of the

This sul)-section was amended in 1918 to read as follow of another person, packs fruit in an open package, intended for sale, shall cause such package to be marked before it is taken from the premises where it is packed,
with the initials of his christian names and his full surname and address, or in the casf of a firm or corpora tion, with the firm or corporate name and address in plainand indelible manner, in letters not less than one quarter of an inch in length. Provided that any co operative association or person dealing wholesale in fruit may cause the package containing such fruit to be marked with his own name and address, but such packages must also be marked with a number or other mark
approved by the Minister which will designate who is the original packer of such fruit

The Spray Calendar for Ontario. Revised Up to date by Professor L. Caesar.

The season of 1919 was the first time this regulation had been in effect, and we are informed by the Frup Commissioner that considerable leniency was shown in might become fully acquainted with the requirements A warning is now issued, however, that during 1920 it will be rigidly enforced, and those wishing to market their fruit according to law and in open packages should give this matter their immediate attention. All applications for permission to use numbers or other marks should culture adressed tothe Fruit Branch, Department of Agrithat every packer should assure himself that the shipping number or other mark which has been furnished him by the wholesaler or a co-operative association, has re ceived the approval of the Minister of Agriculture


## Formulae for Insecticides

 Ise 2 to 3 lbs. to 40 Led PASTE. or of Bordeaux mixture.ARSENATE OF LEAD POWDER Use 1 to $1 / 2 \mathrm{lbs}$. to 40 gals . of water, or of lime Sulphur or of Bordeaux mixture
Use 3 4 to 1 lb . if in powder torm to 40 gals. of Bordeauy poison is used with lime eulpht if in paste form. If this poison is used with lime sulphur add 3 or 4 las of hy
drated or freshly slaked lime to every 40 gals of the liquid to prevent burning
PARIS GREEN
(This poison is not safe with lime Burdea
HELLEBORE. (Not good if left exposed
NSECTICIDES FOR SUCKING INSECTS ONL LIME-SULPHUR
For scale insects, , Blister
TOBACCO EXTRAC
Far Aphids Leaf-Hoppers, Psyllas, etc
(a) Bpack-Leas 40 , strenth to
(a) Black Leaf 40, strength to use is indicated o (b) Nicoines-Sulphate 40\%. Strength is indicated (c) Home-MADE Extract. Soak 1 Ib. tobacco refuse in 1 gal. water for 21 hrs. with occasional
stirring, or steep 1 lb in 1 gal. water for 1 hr . Make up for water that evaporates, Use at once wi
out dilution: spoils in a few days if not used. kEROSENE EMUSLION
Kerosene
Rain Water
Son
 churn vigorously for five minutes, or better pour upon itself for five minutes. For use dilute with 9 parts of water, so that the above 3 pals. of stock emulsion will make 30 gals. of spray mixture.
WHALE OIL SOAP For brown or black aphids, 1 lb . in 4 gals. rain water

## Formulae for Fungicides

## BORDEAUX MIXTURE.

Fresh Stone Lime Lime Or Hydrated Lime
Hydrated lime is much the more convenient form douse, as it can easily
Prepare bordeaux Mixture-Dissolve the bluestone; then nearly fill the tank with water; add the
proper amount of dissolved bluestone: start the engine to agitate the liquid: add the hydrated Itme or slaked stone lime, and agitate the mixture
for about 5 minutes. If a hand outfit is used agitate oy pumping the liquid back upon itself for 5 minutes. crystal or lumpest form is to dissolve bluestone in the
and suspend this over a bartel 40 bls. of it in a bae water, in such a way that the bottom of the birs water. Leave over night and in the monning all
will be dissolved. 1 gal. of the liquid will now capidly dissolved in boilinall quantities can be rapidly dissolved in boiling water by stirring.
Granulated bluestone dissolves very readily and is usually placed in the desired amount upoina burlap solved by the water being poured over it as the tank is filled.
Note 2.-Hydrated lime if left exposed to the air becomes
worthless, so keep it in tightly fastened paper bags in a dry place. Lime-Supphur. The commercial product is
commonly used. For strength see abone under tis commonly used. For strength see above under A1,
12 and A3. For directions for making the home. made lime-sulphur consult bulletin 198 , which also
contains full directions for testing the mixture and contains full directions for testing the mixture and
for the use of the hydrometer


 lead. Dusting is mititutory us a stpplement to
s.lphur through a s reen to break lumps, then add whatever further a anount of water is necessary
wh complete the slaking. Stir well with a hoe to to complete the slaking. Stir well with a hoe to
prevent the lime caking on the bottom. As socn prevent the lime caking on the bottom. As socn
as the slaking is over, add enough cold water to as the slaking is over, ad prevent further combina
cool the whole mass and tion. Strain in
while spray ing.
-DISINFECTANTS (for pruning tools and fir wounds on trees):
Corrosive Sublimate, 1 part to 1,000 by weight, 1 tablet to 1 pint of water., Apply with a swab
on end of a astick or piece of sponge in mouth of a bottle.
Caution.
Caution.-Corrosive sublimate is a deadly poison to man or beast if taken internally It will also
corrode irc.n or metal, so use in a glass or wooden vessel and be sure to wash these out very thorough when through using them.

## Peach Leaf Curl.

Many peach growers in 1919 were greatly disespecially as it followed so closely the severe iniury peach trees from the winter of 1917-18. I may say to such men that they should not allow themselves in the least to lose confidence in peach growing because of these things; for such a winter as 1917-18 has occurred
only once in the life-time of the ordinary man and will not likely occur again for another half century. More over, the Leaf Curl is a disease that can be controlled any year no matter how bad the season may be and


Apple Blossom Time Makes a Busy Season for the

## Leaf Curl is a fungous dis case and, like other fungous

 diseases, it is spread from tree to tree by means of sporesthe spores being so small see them individually. When the affected leaves are
dropping the surface assumes velvety appearance. This yelvety dark olive, somewhat due to the thousands and even millions of spores spore cases that cover the whole leaf. The full lifethere is plenty of evidence to show that the spores are carried long distances by the wind, and when abundant
alight on every part of the tree, including next year. There is evidently, no crevice around a bul
too small for them to be blown into the spores perish before late autumn except those that
winter around the winter around the buts, for it has been found that if be free from lear curl next year. This could not, of fall, winter or spring. This is a most mportant fact
and explains all we need to know albout the spores Conditiovs That Favor Lleaf Curl.
We are all aware that some years, even the most susceptible varieties, such as Elberta, are practically
free frome the disease, even though not sprayed. Such
vears are gunny and warms those in which the weather has been sumny and warrun and fine fromt the weat ther has been
distinctly begun to swell until they had had fully opened distinctly begun to swell until the the had fully opened
and the leaves goo well started. On the other hand.
the discase is known to be violent in those
rom the abontrol of Leap Cur
arl we must always kill the spores before prevent leal opportunity for them to begin to germinate ane is any there must be no the weather in spring will be we must be killed before there is isn. Hence, the sporis the buds. Sometimes the buds are insthec swelling of Thy the middle of April, or occhsionally a little cantion Therefore, if we are going to run no risk, we miter eriet, blways safest to eor aprit at the latest; in fact, illy of April. Can we sprafore the end of the first roek at any time after the foliage is off in the autay spay the first week in April. Some years later spmamn up to be successfut, but some years they will not. It Itepenall upo, comes weather and when the wet period, it therris depends upon the control of the disease when so much said shows you that I am satisfied that fall spraying
will control the disease, but to make it the necessary to wait until all or nearly all the leaves is ${ }^{\text {off the trees. }}$ The eviden
spraying is: first, in favor of the effectiveness of ant spraying is: first, it has been tested on a smastl csale for
three or four years in Ontario, and given as as results as spring spraying; for instance, $\mathbf{M r}$. W. W 1918 , 1918 on most or his orchards, both at St. Davids and ness, stated that he had had excellent resitse effective. sidered it the surest time to spray. Professor Went wrote me the other day that they had feeted fall spraxing in New York for several years, and that whereverthe. satisfactory waroughly done the results were unifomly.
My advice, therefore, would be to go ahead and spay as many of your peach trees as time permits in the fall, in the fall unless you cannot do them in the sprine or unless you are going to repeat the spraying in the spining, A.Ine-sulphur, 11 galon to 7 , gallons of water or
soluble sulphur $121 / 2$ lbs. to 14 lbs. to 40 gallons of mater: may be used, but to have perfect results, you must do neans that you should shoot the spray through the unds at the top of the tro be careful not to misesthe wuds at the top of the tree. Remember that not one to do thoroughly as it may appear. One spraying is

## FARM BULLETIN.

Legislature Vies With House of Commons in Wasting Words.

The third week of the session of the Ontario Lemis

delate on the address. in all honesty it cannot be sidid
therwisc than that the time was largelv wasted. As we understand the rules of the House, the Government
is powerless to stop it while members signify a desir to speak, and it was rather commonty understood that
the Ioon. Peter Smith,eProvincial Treasurer, was pre. pared with the budget speech on Wednestay of last: wreck had it been possible to conclude the debate at Chat time. So many members signified a desire to speak, however. that the budger could not be presented important debase of the sessin an fnancial aspects of provincial government. Liberal members seem to predominate as speakers from the ranks of the Opposicion, apparently to conveniently fill in time in order
that the (Government may but the Government may get its legisiacion ino shap in a mild way, from the attitude of the Liberal leader who, it is well known, has not adopted from the firts a conciliatory attitude. In fact, one Government member during the week thought that "his wail of disappoint
ment put to shame the very best offorts of Jeremidh ment put to shame the very best efforts of evermid
in his five chapters of Lamentations." Howeve, this may be, if the fair speeches of the Liberal members are. honest and if their desire to make them possesses an the session and and the proof will come from now on, in ment proposes or has done is in order. Two night sittings were held last week, and during Tuesday, Wednesday and Thursday, eleven speeches were mader Appareared with ten during five of the first eight days add much to the debate and are confining themselves, with few excentionste and are conning glories of the past as reflected, or made to reflect, on their respective groups in the House. Lincoln, led in the debate last
Thomas Marshall, week, and admired the wisdom of the Premier as soparal
shown. $H i s$. shown. His speech was a comparison of the ebbera
with the U. F. O. platform very larcelv, and the latel Was made to appear very much like the former. Mr
Marshall succeeded in drawing from M. M. MacBride, South Brant, the declaration that he believed in believe either in free trade or in the degree of protection hitherto enioyed by some industries in Canada: Mr.
Marshall did not favor either the initiative or the erefern. dum and drew from Preniier Drury the announcemenen
that the Government does not propose to introduce that the Government does not propose to introducce
legislation in this direction this session. The member
Foundied 180
efore theren is leaf
any minate, and, as we Hence, the spert,
$\times$ disthict swelling of are in ask, we must spray es, we may spray the autumn up to ill not. It depend sks when so much hat fall spraving ed on a small scate for praying in the fall
th at St. Davids and
at it results and con-
Professor Wetran 1y. Professor Wetrec
had teeted fall spry
and that wherever the to go ahead and spra ${ }^{r}$ kinds of fruit trees
ga 4 ns of water on
to 40 gallons of water f every bud. This
ul not to misssthe
that not one is not so eass/

## CETIN.

h House of ng Words.
close the opening , the Government signify a desire to reasurer, was prede the debate at uld not be presented the financial aspect nembers seem to in time in orion into shape, ted from the firt a wail of disappoint-
efforts of Jeremiah However, this from now on, in what the Govemduring Tuestay, first eight days. ing themselves, he glories of the
their respective
debate last

| remier as so lar |
| :--- |
| of the Liberal |

he former. Mr.
Melieved in a
of protection
or the referen-
The member

1, 1920
of hydro radials. As regards co-operation, he thought brought splendid resuls wo it was, but it is difficult o change conditions. West York, differed from most Forbes Godfrey,
members on on the question of patronage. He very mermers
forcefully argued that each member should shourther his own responsibilisemed perfectly good. The trouble is that judging from past experience members wive to their responsibilities; largely, ad do ninion, because the people will rarely return a nember who has patronage and who strives only for onesty and efficiently favor of public health measures, spoke veny ${ }^{\text {anddef }}$ the late Government for the progress it made in this direction. As regarded prow instead of watching the moves of a few well-paid agitators or the Dominion Alliance. Sergeant-Major MacNamara, River attack on is independent in politics, the throats of Canadians who do not want and will not ave free trade." He also said with regard to Mre
Drury that, "He was not content with preaching blue uin and predicting disaster whenever he spoke in Onario, wreck Ontario's credit" with speeches that are opied in United States papers. The member for kiver ale very much favored representation according
population, the provision of adequate housing, prosecution of combines, provision of employment for veryiene, He dealt at great length with rural depopulation and the money gained by farmers during the war, llaiming that on cat 4 le, sheep and
I. W. Curry, South East Toronto, said that poverty nd disease are the twin enemies of the peopl oo fight
Province He strongly urged united action to so long as we can take the best of each." He thought thould be unnecessary for Conservatives to wap
hemselves in the old flag in order to get what is best lown, but was still more anxious to see money spent
properly. He was opposed to patronage and surprised hat 93 per cent. of Ontario children do not get past public school, but believed the mass of the people must
be elevated to decrease this percentage. Mr. Curry touched on temperance, labor and education in a very
earnest and effective manner. "It ought not to be earnest and enfective said the speaker, "that children
possible in Ontario" said
should not obtain the necessary food hem bexporting our products? the producers to proesponsibility of subsidizing production so that there J. W. Widdifield, North Ontario, one of the two original U. F.O. members in the House, declared him-
self a free trader after some difficulty. This diffulty
Thity upon the subbect, but to the fact that he appears to
lack the facully of clear and concise expression. His speech reminds one somewhat of some of the commercial
fertilizers put upon the market that contain a certain ertilizers put upon the market that contain a certain
mount of "filler" in order that the elements of nutrition
 the next). We understand that this gentleman comes
rom the same part of Wales as. David Lloyd George ame kind of nourishment. Mr. Hall is Mayor of Parry Sound, and we know him to be a member of Parliament,
ut we never expect him to be Premier. He is a free rader and a labor man, and shows greater intrepidity ee is willing tor men are credited . h stowing, in that the labor of the United States and Germany under protection. He favored strong temperance legislation, conservation and development of our northern mining and timber resources, and strongly urged good roads or the north also, but under a policy where patronage
ould be abolished He believes Parry Sound to be he best milch cow the province ever had, and says she as been milking, strongly for fifty years, although she as received nothing in return but what she can brouse,
Some cow all right. Her type would have been a great source of reliff to farmers in old The Hon. Ceo. S. Henry, Minister of Agriculture in the Hearst Government, delivered a fighting speech that was, bowever, pretty much cluttered up with
personalities. Apparently Mr. Henry smarted from ion at the time of the last election, and he ventilated is opinions of some persons and things during the most xhitung moments of his speech. He appeared to like Minister of inspiring the "scurrilous, contemptibl denied being the source of inspiration. Mr. Henry practically denied the truth of Mr. Doherty's state housands of dollars during the past because they had no protection in the matter of butter-fat tests. Whethe
deliberately or not Mr. Henry also misquoted to some extent Mr. Wherty's remarks regarding the former avored consulitation of schools, township boards and
increasing
would lead to consolidation so rapidly as township
boards. For particular reasons we wish to pay special attenFor particular reasons we wish to pay special atten-
tion to a speech delivered on Thursday, March 25, by
W. H. Casselman, Dundas. These reasons are briefly, that the speech in question was a really helpful con-
tribution to a much-drawn-out debate: that it was a principlcs of representative government; and that, for rast to some others. Mr. Casselman is not a particularly good platform speaker. His voice is none too
strong and slightly inclined to huskiness, while the strong and slightly inclined to huskiness, while the
closeness with which he followed his extensive notes indicated a lack of practice in free utterance. The
outstanding reason for our appreciation of this speech was that it was delivered by a successful farmer in manner that was entirely creditable to, and fully repreTentative of, the agricultural industry of the Provincr
The speaker came from Eastern Ontario and it was quite plain that, in as much as it referred to agriculture and public matters generally, it was intended to stand as hat this speech had been given considerable preparation and we doubt if the same could be said of some of the eedings, we know that preparation adds very much to he working out of representative government. Many members waste a great deal of the time of the House numerous platitudes, repetition and the interjection of subjects altogether foreign to the work of the House. Moreover, the member owes it to his constituents to put his best foot forward, and we have frequently heard experienced mong his fellow members has been greatly essened by an injudicious and poorly-considered "maiden" speech. On the whole, we considered Mr. Casselman's speech a very clear, well-inormed and


President United Farmers of Ontario and newly-elected Presiden
of the Canadian Council of Agriculture. rural aspirations. Because of this and the sensible opinions it voiced, we are using the greater part of it
in a later issue, rather than cut it to a paragraph here In a later issue, rather than cut it to a paragraph here,
If Mr. Casselman's first speech marks him as repre sentative of the people who sent him to Toronto, he need never be ashate those who till its soil.
Following the member for Dundas, K. K. Homuth, South Waterloo, spoke for a comparatively short time Mr. Homuth is pleasant, fluent, sensible and a good speaker. F. W. Hay, North Perth, igne legislation and hought that the frequent interjection of federal matters nto the debate looked like an impending general federa considerate and even kindly. He felt that the farmer of 25 years ago had entirely disappeared. The present lay farmer is a business man engaged in farming, and is well able to take care of himself. He favored de-
porting or taxing out of the country all immigrants who are not ready to assume the responsibilities of full citizenship. He saw a great future ahead of con-
solidated schools, and casually remarked that he had dealt all his life with farmers and had found very many good ones as well as a darn lot of the aims of the Labor party, and said that every person should have an opportunity to work ation, and the care of old or de pendant persons. Every person was entitled to a reasonable amount of luxury. Ae-warned important factor in civilization, they werty is not able do what they would like to do during party is not absen, there are four years remaining, and
been passed than under any regime that has gon Little, if any, real business has been done so far b the House. Over one hundred and twenty bills have
been introduced and given their first reading. Some half dozen of these have been advanced one stage about all; not a great deal has so far been accomplished The Hon. H. C. Nixon, Provincial reasurer, in repl pensaries operated by the Ontario Board of License Commissioners had so far returned a profit of $\$ 536,800$ o the province. The Hon. Manning W. Doherty Minister of Agriculture, in reply to another question, aid that Dr. G. C. Creelman, President of the Ontari resign, nor had any other members of the staff been asked to resign, although five members had resigned voluntarily since October 31, 1919. The number of gricultural calendars issued in 1919 by the Ontario epartment of Agriculture
was something over $\$ 22,000$

Canadian Council of Agriculture Annual Meeting
The annual meetimg of the Canadian Council of gribulture was held in the Prince George Hotel, Toronto Whe Wednestay, Thursday and Friday of last week President, 1919; J. J. McLellan, P. Baker, R. A. Parker, angely, J. B. Musselman, John Evans, A. G. Hawkes, I. Fleming, J. Robinson, T. Sales; Manitoba, J. L Brown, W . R. Wood, Peter Wright, Donald Muranzie Roderick McKenzie; Ontario, Mrs. Laws, Cayuga;Mrs son; A. A. Powers, Orono; Col. J. Z. Fraser, Burford; Hoover, Harrold; W. A. Amos, Palmerston; Norman ambert, Secretary. The meetings of the Canadia nd outsiders, but it is understood that steps were taken looking toward a conference with the organized farmers of the United States, in order to bring about a befte understanding between the agricualurss of the tw lso that the whole problem of national live-stock narketing was under consideration, as well as the pos sibility of organizing a live-stock section of the Canadia ouncil of Agriculture. Application for affiliation by he Province of New Brunswick was unanimousty ap apply for affiliat ion, and that British Columbia is ready
RW. E. Burnaby, President of the United Farmers he Council, with Roderick McKenzie, Winnipeg, as Vice-President, an an Executive composed of Messrs. J. A.
Peter Wright, J. F. Chipman, and C. Rice-Jones

## Officers of the Canadian Seed

 Growers' Association.
## A report of annual meeting of the Canadian

 artment of this issum but when that matter went to ress we were not in possession of a full list of the supplied by the Secretary: President, Dr. Jas. W. Rober保, Ottawa; Secretary, L. H. Newman, Ottawa. Th A. E. Howes, University of Alberta, Edmonton; Prof G. H. Cutler, University of Alberta, Edmonton; M. P. Tullis, Department of Agriculture, Regina; Prof. Joh Winnie, Rothern, Sask.; Prot. Y. Harnson, M. Man Dr C A, Zavitz O A C, Guelph, Ont.: Justus Miller Dept. of Agriculture, Toronto; F. N. Savoie, Dept. Agriculture, Quebec; Prof. R. Summerby, MacDonald Fredericton: W. E. Palmer, Scotch Lake, N. B.; W. L MacFarlane, Fox Harbour, N. S. i. Dr. M. Cumming.
Trum

## Packers' Insurance Under

 Consideration.The Live-Stock Commissioner reports that a con ference was held on March 24, between the Federa Department of Agriculture and representatives of the meat-packing incusulture pension of the order prohibiting the collection of the condemnation tax on live stock sold on public stoci yards. In the interval, a committee with equal repre sentation from producers, Canaatian packers ald the ehe alation ond constructive policy, the application of which shall be air to all concerned and, at the same time, effective in steadily reducing disease in Canadian live stock
Many youne men and older ones too hesitite about pay ing a big price for foundation stock or herd headers. A right good sire has put more than one hreeder on his
feet. Who knows but that a thousand dollars paid for a bull may start you on a successful career as
,Week Ending March 25.


Montreal (East End)
Calgary
Market Comments.
Toronto (Union Stock Yards.)
There was a seasonable offering o There was a seasonable offering of
cattle during the week, approximately
seventy-two hundred head being on sale. cattue during the week, approximately
seventy-two hundred head being on sale.
Monday'scontribution amounted to forty Monday's contribution amounted to forty-
two hundred head. Trading opened two hundred head. Trading opened
weaker and values declined sharply,
50 cents to 50 cents to 75 cents being taken off
butcher cattle on Monday and 25 cents on Tuesday, thus depressing values 75 cents to $\$ 1$ per hundred from the previous
week's were the most affected by the decline. On Monday trading was very slow and
fully ten hundred cattle were carried fully ten hundred cattle were carried
over unsold; on Wednesday there was over unsold; on Wentestay there was
a little more activity and the market with the week's offering well sold out The week's market emphasizes the present
weak condition of the cattle trade. weak condition of the cattle trade.
Marketings of any considerable surplus above the immediate requirements of the beef trade at present creates a depression in prices and indicates an unstable con-
dition of cattle values. A drop on the dition of cattle values. A drop on the
American markets of $\$ 1$ per hundred last American makkets of 1 per hindred last
week, the exchange rate assuming more ide market were all factors contributing o the week's decline. The drop in prices brought catte back to a level with the ow points of the year. The week's
receipts included some choice wetle several loads of heavy steers being on sale Best quality steers were quoted up to
$\$ 14.25$ per hundred, and ten head which $\$ 14.25$ per hundred, and ten head which at that figure on Thursday, while other good sales made during the week included a load of twenty head averaging twelve
hundred and twenty pounds at $\$ 13.50$, per hundred, a load of thirteen hundred at $\$ 13$ to $\$ 14$. per hundred. Of steers ranging in weight from ten h hndred to to
twelve hundred pounds a few sales were made as high as $\$ 14$, while a straight load hundred and sixty pounds sold toraged ten several smafi drafts from 913 to $\$ 1275$, and the majority at from $\$ 11.75$ to $\$ 12.755^{\prime}$, Handy-weight butchers declined in sympathy with other grades, and while a premium the out-let for thmanded restricted to a narrow volumese Was
steer which weighed nine hundred and seventy pounds sold at $\$ 16$ per hundred
hundred, a few others
which ranged in weight froin six humbred to ten



| Receipts CATTLE Top Price G |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | Same | Week |
| Ending | Week | Ending | Ending <br> Mar. 25 | Week <br> 191 | Ending <br> Mar 1 |
| M, ${ }_{699}$ | 19,808. | ${ }_{\text {- }}^{8,013}$ | \$13.75 | \$15.50 | \$14.75 |
| ,908. | 491. | 497. | 15.00 | 13.50 | 14.25 |
| 368 | 633 | 564 | 15.00 | 13.50 | 14.25 |
| 1,386 | 1,365. | 1,083 | 12.50 | 15.00 | 12.85 |
| 1,959 | 1,619 | 1,552 | 13.50 | 14.00 . | 12.50 |
| ${ }_{6} 667$ | '521. | 1,031 | 12.25 | 14.25 | 12.50 |


| Week | HOGS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Receipts Same | Week | Week ${ }^{\text {T }}$ | Price Se Same |  |
| Ending | Week | Ending | Ending | Week | Ending |
| Mar. 25 | 1919 | Mar. 18 | Mar. 25 | 1919 | Mar. 18 |
| 7,193 | 8,857. | 4,498 | . 820.50 | \$20.00 | \$20.25 |
| 1,112 | 999 | 1,287 | 20.25 | 19.75 | 20.75 |
| +969 | 647 | ${ }_{857}$ | 20.25 |  | 20.75 |
| 3,590 | 5,981 | ,625 | 23.00 | 19.25 | 21.00 |
|  | 2,572 | 749 | 20.75 | 18.75 | 20.25 |
| 1,190 | 515 | 1,026 | 20.60 | 18.50 | 20.00 |


| Receipts CALVES ${ }_{\text {Top Price Good }}$ ar |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| Week | Same | Week EndingMar. 18 1,155 867. 80152 | Week Mar. 25 . $\$ 23.00$ 17.00 16.00 12.00 | Same <br> Week 1919 <br> $\$ 17.50$ <br> . 13.00 <br> 13.00 $\quad 14.50$ | Week Ending Mar, 18 <br> 824.00 $-\ldots . \quad 19.00$ 19.00 16.00 $-\quad 12.00$ |
| Mar. 25 | 1919 |  |  |  |  |
|  |  |  |  |  |  |
| 1,031... | 1,920 |  |  |  |  |
| 965 | 1,161 |  |  |  |  |
| 146 | 141 |  |  |  |  |
| 231. |  |  |  |  |  |
| 77. | 149 |  |  |  |  |


| $\begin{aligned} & \text { Classification } \\ & \text { Sterrs } \text { heavy finished } \end{aligned}$ |  | TORONTO |  |  |  | MONTREAL |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | No. | $\begin{aligned} & \text { Avge. } \\ & \text { Pric. } \end{aligned}$ | Price Range Bulk Sales | Top Price | No. | $\begin{aligned} & \text { Avge } \\ & \text { Price } \end{aligned}$ | Price Range Bulk Sales | ${ }_{\text {Pop }}^{\text {Top }}$ Price |
|  |  | 180 | \$13.41 | \$12.50-\$14.25. | \$14.25 |  |  |  |  |
| $\left\lvert\, \begin{aligned} & \text { STEERS } \\ & 1,000-1,200 \end{aligned}\right.$ | $\begin{aligned} & \text { good } \\ & \text { common } \end{aligned}$ | $\begin{aligned} & 394 \\ & 64 \end{aligned}$ | $\begin{array}{r} 1289 \\ 8.91 \end{array}$ | $\begin{array}{r} 11.50-13.50 \\ 8.00-10.25 \end{array}$ | $\begin{aligned} & 13.75 \\ & 10.75 \end{aligned}$ | 132 12 | \$13.50. | \$13.00-814.25 | \$15.00 |
| $\left\lvert\, \begin{aligned} & \mathrm{STEERS} \\ & 700-1.000 \end{aligned}\right.$ | $\begin{aligned} & \text { good } \\ & \text { common } \end{aligned}$ | $\begin{gathered} 2,141 . \\ 415 \end{gathered}$ | $\begin{array}{r} 12.21 \\ 8.56 \end{array}$ | $\begin{array}{r} 11.25-12.75 \\ 8.00-10.00 \end{array}$ | $\begin{aligned} & 13.25 \\ & 10.50 \end{aligned}$ | $\begin{aligned} & 138 \\ & 157 \end{aligned}$ | $\begin{aligned} & 12.00 \\ & 10.50 \end{aligned}$ | $\begin{array}{r} 11.25-13.65 . \\ 8.00-11.00 . \end{array}$ | $\begin{array}{r} 13.65 \\ -11.25 \end{array}$ |
| Heifers | $\begin{gathered} \text { good. } \\ \text { fair } \\ \text { common. } \end{gathered}$ | $\begin{array}{r} 1,729 \\ \quad 209 \\ 57 \end{array}$ | $\begin{array}{r} 12.34 \\ 10.53 \\ 10.70 \end{array}$ | $\begin{array}{r} 11.50-13.00 \\ 10.00-11.25 \\ 7.00-9.75 \end{array}$ | $\begin{array}{r} 13.25 \\ .11 .50 \\ .10 .50 \end{array}$ | $\begin{aligned} & 53 \\ & 8 \\ & 73 \\ & 73 \end{aligned}$ | $\begin{array}{r} 12.00 \\ \begin{array}{r} 10.00 \\ 7.50 \end{array} \end{array}$ | $\begin{array}{r} 10.50-1300 . \\ 9.00-10.25 . \\ 7.00-8.50 . \end{array}$ | $\begin{array}{r} 13.65 \\ 10.25 \\ 10 \end{array}$ |
| Cows | $\begin{gathered} \text { good } \\ \text { common } \end{gathered}$ | $\begin{aligned} & 359 \\ & 624 \end{aligned}$ | $\begin{array}{r} 10.82 \\ \quad .9 .49 \end{array}$ | $\begin{array}{r} 10.00-11.50 \\ 8.50-9.75 \end{array}$ | $\begin{array}{r} 12.90 \\ \quad 9.75 \end{array}$ | $\begin{array}{r} 85 \\ 115 \end{array}$ | $\begin{array}{r} 11.00 \\ \quad \end{array}$ | $\begin{array}{r} 10.00-13.00 \ldots \\ 7.00-\quad 9.00 \ldots \end{array}$ | $\begin{array}{r} 13.00 \\ 10.00 \end{array}$ |
| Bulls | $\begin{gathered} \text { good } \\ \text { common } \end{gathered}$ | $\begin{gathered} 121 \\ 55 \end{gathered}$ | $\begin{array}{r} 10.42 \\ 8.04 \end{array}$ | $\begin{aligned} & 9.75-11.00 \\ & 7.00-9.50 \end{aligned}$ | $\begin{aligned} & 1150 \\ & 10.50 \end{aligned}$ | $\begin{aligned} & 11 \\ & 49 \end{aligned}$ | $\begin{array}{r} 10.75 \\ 8.25 \\ \hline \end{array}$ | $\begin{array}{r} 10.00-12.00 . \\ 7.00-\quad 9.00 . \end{array}$ | $\begin{array}{r} 12.00 \\ 10.00 \end{array}$ |
| Canners \& Cutters |  | 144 | 5.97 . | 5.25-6.50 | 6.50 | 54 | 6.00 | $5.25-6.50$ | 6.50 |
|  |  |  |  |  | - | 11 |  |  |  |
| Calves | $\begin{aligned} & \text { veal. } \\ & \text { grass. } \end{aligned}$ | $\begin{array}{r} 1,969 \\ 19 \end{array}$ | 19.53 | 17.50-21.00 | 23.00 | $\begin{array}{r} 1,003 \\ 28 \end{array}$ | $\begin{array}{r} 1600 \\ 7.50 \end{array}$ | $\begin{array}{r} 15.00-17.00 \\ 7.50- \end{array}$ | $\begin{array}{r} 17.00 \\ 800 \end{array}$ |
| $\left\lvert\, \begin{aligned} & \text { SToCKERS } \\ & 450-800 \end{aligned}\right.$ | $\underset{\text { good. }}{\text { fair. }}$ | 319 64 | $\begin{aligned} & 9.66 \\ & 8.62 \end{aligned}$ | $\begin{aligned} & 8.50-10.50 \\ & 7.75-9.25 \end{aligned}$ | $\begin{array}{r} 10.50 \\ 9.25 \end{array}$ |  |  |  | $\square$ |
| $\begin{aligned} & \text { Fexders } \\ & 800-1,100 \end{aligned}$ | $\begin{gathered} \text { good } \\ \text { fair } \end{gathered}$ | 120 | $\begin{array}{r} 11.40 \\ . \\ .50 .50 \end{array}$ | $\begin{aligned} & 10.50-11.75 \\ & 9.00-11.00 \end{aligned}$ | $\begin{aligned} & 11.75 \\ & 11.00 \end{aligned}$ |  |  |  |  |
| Hogs <br> fed and watered) | selcets. heavies | 6,079 | $\begin{array}{r}19.72 \\ 18 \\ \hline 15\end{array}$ | 19. $25-20$.$18.25-19$$17.25-18$$15.25-17$. | $\begin{array}{r} 20.50 \\ 19.50 \\ 18 \\ 1850 \\ 1750 \end{array}$ | $\begin{aligned} & 825 \\ & 15 \\ & 236 \\ & 28 \end{aligned}$ | 20.25 | $20.25-\quad 20.25$ |  |
|  | lights. | 917 | 17.73 |  |  |  | 20.00 | 20.00 | 20.25 |
|  | - ${ }_{\text {sows }}^{\text {stags }}$ | 166 14 | 15.74 |  |  |  | 16.25 | 16.25 - | 16.25 |
| Lambs | good | $\begin{aligned} & \begin{array}{l} 405 \\ 103 \end{array} \end{aligned}$ | $\begin{aligned} & 18.43 \\ & 14.88 \end{aligned}$ | $\begin{aligned} & 16.50-19.00 \\ & 14.00-17.00 \\ & 17 \end{aligned}$ | $\begin{gathered} 2100 \\ 1750 \end{gathered}$ | $\begin{gathered} 20 \\ 10 \end{gathered}$ | $\begin{array}{r} 17.00 \\ 1600 \end{array}$ | $17.00$ | $\begin{aligned} & 17.00 \\ & 17.00 \end{aligned}$ |
| Sheep | heavy |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { light } \\ & \text { common } \end{aligned}$ | $\begin{aligned} & 78 \\ & 25 \end{aligned}$ | $\begin{array}{r} 14.05 \\ 7.64 \end{array}$ | $\begin{array}{r} 13.00-15.00 \\ 6.00-\quad 8.50 \end{array}$ | $\begin{gathered} 16.00 \\ 9.00 \end{gathered}$ | $\begin{aligned} & 19 \\ & 17 . \end{aligned}$ | $\begin{aligned} & 12.50 \\ & 12.00 \end{aligned}$ | $12.50$ | $\begin{array}{r} 13.00 \\ \quad 12.00 \end{array}$ |

from $\$ 9$ to $\$ 9.75$ and common from $\$ 7$
to $\$ 8.50$. More interest than for time is being mane intestest than for some and feeder department, and has a tendenc carloads of stockers and feeders weral calioads of stockers and feeders we
shipped to country points during the to $\$ 1.50$, and stockess from $\$ 9.50$ $\$ 10.50$. The milch cow trade wis changed, good cows selling up to $\$ 17$ $\$ 140$, with hackum quality at $\$ 100$ to $\$ 100$. There was a libery at $\$ 8$ of calves, and while sales were erairl steady, medium calves showed a slar
decline; several sales were made durin the weck at $\$ 23$ sales were mate during Inlostly from $\$ 18$ to $\$ 22$, with common
calves from $\$ 10$ to $\$ 15$. The sale of a few spring lamb, features
$\qquad$
$\qquad$
balance of the week fed and watered
hogs were hogs were weighed up from $\$ 19.25$ to
$\$ 19.50$, most of Thursday's hogs moving at the lower figure. F. o. b. prices during the week ranged from $\$ 18.50$ to $\$ 18.75$
lights were quoted $\$ 2$ below selects, and sows $\$ 3$ to $\$ 5$ lower.
The total receipts from January 1st to March 18 th, inclusive, were: 61,218
cattle, 9,160 calves, 75,871 . 14,218 sheep; compare 1 with 74,10 , cattle, 8,134 calves, 79,864 hogs and 24,628
sheep, received during the correspondin period of 1919.
There were thirteen hundred and on
cattle offered for sale on the two during the week, Quite a percentage of the offering was made up of cattle in
tendel for the Eastern trade, and tho tendel for the Eastern trade, and there
were some choice steers, heifers, very
fat The best prices were obtained on Saturday On Monday, prices for top steers, canday On Monday, prices for top steers, canners
and very thin cows were off from 25
cents to 50 cents per humdred, and for
other grates from 50 cents to 75 cents
which weighed fourteen hundred and seventy-five pounds weighed up at $\$ 17$ per hundred, seven steers which averaged
about twelve hundred pounds at $\$ 15$, a load of choice cattle averaging eleven hundred and fifty pounds at $\$ 14.25$, and a lighter load at $\$ 13.62$. Choice heifers and choice young cows were weighed up either separately or together at \$1 to $\$ 12$; the top price for bulls was $\$ 12$ paid for fat breedy bulls which weighed around eighteen hundred pounds. Fair and good butcher steers and heifers from $\$ 10.50$ to $\$ 12.50$. Common grades of cows sold down to $\$ 6.50$ and $\$ 7$, and anners at $\$ 5.25$ On Wednesday,
straight load of heifers, bulls and thin steers, which averaged five hundred and ninety pounds was sold at $\$ 7$ per hundred,
and medium cows were disposed of fromt $\$ 7$ to $\$ 8$. Calves were sold during the week from $\$ 15$ to $\$ 17$ for those of good quality and down to $\$ 10$ for very thin young stock. A few drovers are sting
bringing in a number of young calves. bringing in a number of young calves.
It is contrary to law to offer for sale
calves under three weeks. old. Calves calves under three weeks old. Ch three
likely to be considered less that weeks old, cause both trouble and
to the shipper.

## Founded 18 eat

larkets
-

## 

Week
Ending
Mar
32
34
19
19
10
1
1
rice Good Lambe
Same W $\begin{array}{cc}\text { Same } & \text { Week } \\ \text { Week } & \text { Ending } \\ 1919 & \text { Ending } \\ \$ 20.00 & \$ 22.00\end{array}$

$\underset{13.00 \ldots}{13.00} \quad 16$
AL
rles)
rles
Ray
Rat

| Range |
| :--- |
| Sales |
| Sol |
| Pric |

14.25... $\$ 15$
$\begin{array}{r}13.65 \\ -11.00 \\ -13.05 \\ -13 \\ \hline\end{array}$
$\begin{array}{rrr}13 & 00 & 13.65 \\ -10.25 & 10.25 \\ -850 & 900\end{array}$
$\begin{array}{r}13.00 \quad 1300 \\ -\quad 9.00 \ldots \ldots \\ \hline\end{array}$
$12.00 . \ldots .12 .00$
$9.00 \ldots \ldots . .10 .00$
$6.50 \ldots . . .6 .50$

APRIL 1, 1920
THE FARMER'S ADVOCATE

Cosed at a range of $\$ 12$ to $\$ 12.50$ f
sheep and $\$ 17$ to $\$ 17.50$ for lambs.
sheep and prices for hogs during the week were $\$ 21$ per hundre then on contracts from the previous week,
$\$ 20.50$ off car weights, for fresh sales,
, for and $\$ 20$ for an odd lot containing a large percentage of lights. $\begin{gathered}\text { Put with light runs } \\ \text { dicting lower prices, }\end{gathered}$ the price is controlled by the needicing local store
firm market
ST. Charles. - The total receipts from January 1st to March 18 th, inclusive were hand 4 catte, shees compared with 8,494 cattle, 6,877 calves, 13,894 hogs and responding period of 1919 .
responding period of total. receipts from January 1 st to March 18 , inclusive, were
8,715 cattle, 4,863 calves. 7,837 hog and 3,797 sheep; compared with 10,262
 sheep, received
period of 1919 .

## Toronto Produce

 Receipts of live stock at the Union cattle, 777 calves, 1,732 hogs, 66 sheep and
lambs. It was a slow market on account of sellers asking much higher prices on
account of light offering; buyers would account of ight ererng; trayers would
not pay higher prices so trade was only steady at prices without change. A few at $\$ 13$ to $\$ 13.50$. Cows and bulls wer steady. Calves were up to $\$ 25$ per hundred medium calves, $\$ 1$ lower. Sheep and lambs were steady; spring lambs, $\$ 13$
to $\$ 18.50$ each. Hogs were lower at $\$ 18.75$ fed and watered.
Manitoba Wheat.- - No. ${ }^{1}$ in northern
$\$ 2.80 ;$ No. 2 Northern, $82.77 ;$ No. 3 north$\underset{\substack{\text { ern, } 82.73 . \\ \text { Manitob }}}{ }$ No. 3 C. W., 95c.; extra No. 1, 955 c .; No Manitoba Barley-No.3 C. W., $\$ 1.63$;
No. 4 C. W., $\$ 1.42$; rejected, $\$ 1.29$; feed, $\$ 1.29$
Ontario Wheat.-F. o. b., shipping ${ }_{\$ 2} \$_{2}$ to $\$ 2.01$; No. 2 winter, $\$ 1.98$ to $\$ 2.01$; No. 3 winter, 81.92 to 81.93 ; No. 1 spring,
$\$ 2.02$ to $\$ 2.03$; No. 2 soring, $\$ 1.98$ to $\$ 2.01$, .
American Corn- Prompt shipment,
yelow nominal, \$1.93, nominal.
Ontario Oats-No 3 white, $\$ 1.02$ $\$ 1.4$, according to freight.
Peas.-No. $2, \$ 3$.
Rye

Barley.-Malting, $\$ 1.78$ to $\$ 1.80$.
Buck wheat-No. $2, \$ 1.65$ to $\$ 1.70$.
Ontarie Flour- In the iute bas prompt thipment, Government standard,
$\$ 1025$ to $\$ 10.45$, delivered at Montreal and $\$ 11$, delivered at Toronto.
Manitoba Flour-Government standard \$13.25, Toronto.
Hay-Track. Toronto, No. $1, \$ 27$ to
$\$ 28$; mixed, $\$ 25$. ${ }^{\text {Straw-Car Iots, }} \$ 16$ to Milfeed-Car lots, delivered Montreal


## Hides and Skins

Hides, f. o. b. country points- Beef
hides, flat cure, heavy, 22c. to 26c.; light,
25er
 take-off, 88 to $\$ 10$; No. $2, \$ 8$ to $\$ 9 ;$ No.
sheep skins $\$ 2.75$ to $\$ 3.75$; yearling
 City Hides City butcher hides, green
fats, 2 C.i. calf skins, green flats, 50 c.



 Seeds Retail.
Dealers quote clover and other seeds Red clover, No. 1, per bushel, \$46.80; No. 2 per bushel, 816 ; alsike, No. 1 , per
bushel, $\$ 44.20 ;$ No. 2, per bushel, $\$ 43.20$, Alfalfa, No. 1, per bushel, $\$ 37.20 ;$ No. 2 per bushe, $\$ 34.80$ Canadian, per bushel,
$\$ 12$. ${ }^{\text {Sweet }}$ clover, best, \$29.40. Tweet clover, best, per bushel,
$\$ 11.55$. No. ${ }^{\text {Timothy, No. 1, per bushel, }}$, 811.55; No. 2, per bushel, $\$ 10.3$
Farm Produce.

Butter- Butter remained about
stationary at last week's slightly firmer prices, fresh-made creamery pound prints,
being quoted at 68 cc ; cut solids, 65 c , to
 Eggs.-Supplies continue to be heavy,
and prices were still declining; latest quotations for new-laid being, 55c. per
Cheese.-The market was quoted as
steady, new large selling at 28c. per lb,; steady, new large selling
and old large, 32e. per 1b,
Poultry--Prices kept
with the - previous week, receipts being rather light with a good demand, especialy for live weight hens. Poultry prices

being paid to producer: Chickens, per lb, alive, 30 cos dressed. 35 c .. chickens, | milk-fed, per lb., alive, 35 c .; dressed, 40 c . |
| :--- |
| Ducks, per lb., alive, 40 c ; dressed, 40 c | Ducks. per lb. alive, 40 c .; dressed, 40 c .

Hens, under 4 lbs . per lb., alive, 3 c . per 1b.; dressed, 30 c .; hens, from 4 and 5 lbs.,
 55 c . Guinea hens, per pair, alive, $\$ 1.25$;
dressed, $\$ 1.50$.
Wholesale Fruits and Vegetables. Fruits kept practically stationary in price during the past week.
Potatoes firmed selling at $\$ 4.75$ to $\$ 5$ per bag. The frst Cobler seed pota-
toes arrived on the market Thurstay, selling at $\$ 5$ to $\$ 5.25$ per bag.
Carrots, beets and parsnips declined; Apples.-Western, $\$ 3.50$ to $\$ 5$ per
box; Ontario's $\$ 6$ to $\$ 12$ per bbl., and $\$ 2$. $\$ 3$ to $\$ 7$ per bbl
Beans. - Dried
Beans,- -Dried white hand-picked, $\$ 5$
to $\$ 5.25$ per bushel. Cabbage.-New, Texas, $\$ 6.50$ to $\$ 7$
per bbl.; Florida, $\$ 7$ to $\$ 7.50$ per case. per bbl. Florida, $\$ 7$ to $\$ 7.50$ per
Carrots. $\$ 1.50$ to $\$ 2$ per bag.
Cauliflower. Cal. $\$ 6.50$ per cr
Cauliflower--Cal. $\$ 6.50$ per crate.
Celery.-Fiorida, 85.50 to $\$ 6.50$ per case. Cal. $\$ 10$ to $\$ 12$ per case.
Lettuce.-Leaf, 30c. to 50 c . per dozen; extraluarge, 85 c . per dozen.
Onions. -88 to 89 per cwt., green,
40c. to 50c. per dozen.
Parsnips $\$ .250$ to $\$ .75$ per bag.
Potatoes.- $\$ 4.75$ to
Ts per bag.
Potatoes. $-\$ 4.75$ to $\$ 5$ per bag.
Turnips -90 c. to $\$ 1.25$ per bag.

## Montreal.

Dressed Hogs.--Demand for dressed
nos continued active and prices were hogs continued active and prices were
firm at $26^{1} \frac{2}{2}$. per per lb. for fresh-killed, country-dressed hos. ing wast, at 38c. to 40c. per yb for chickens and 53c. to 54c. for turkeys, best stock.
Potatoes.- The market for potatoes was firm and supplies are none too large.
Car lots of Quebec white stock were selling at $\$ 3.85$ per wag of 90 los., ex-
track, with 50 c . more being obtained tack, shaller lots, ex-store.
fore naple Syrup.-Operations are now
Man going on actively in the woods but dealers-
have been reluctant to commit themselves on prices up to the present and
there have been no receipts in commercial quantity. Producers are looking for Egys. Prices have been coming down gradually and were quoted at $57 c$. To
58 c . per dozen in a wholesale way. In 655 to 70 c .
Butter. - The market for butter held Butter.- The market for butter heat
steady $\begin{aligned} & \text { wuplies of moderat } \\ & \text { quantity and prices were steady at } 65\end{aligned}$ quantity and prices were kes.
to 66 . per 1 lb for best make
Cheese. Sales of cheese were. reported at 26 c th 261 c c. per 1 lb and it was re-
ported that quite few shipments have
been made to England. ported that quite a few shipments have
been made to England.
Grain. The market for oats shows a
俍
quoted at $\$ 1.17$ and No. 3 at $\$ 1.13$ per
bushel, ex-store bushel, ex-store. few changes took place
Flour-Very
in the market for flour during the week, and prices were much the same with
demand only fairly active spring wheat flour was quoted at $\$ 13.25$ per bh., in jute, ex-track, Montreal
freights, and to city bakers, with 25 c more for smaller lots and 10c. off in each Millfeed.-Supplies of millfeed are light and prices firm. In broken lots,
bran was selling at $\$ 49$ per ton, shorts bran was selling at $\$ 49$ per ton, shorts
being $\$ 56$ and pure barley meal $\$ 80$ with pure ground oats $\$ 75$. Mixed mouille
sold at $\$ 64$ and pure grain at $\$ 78$ and dairy feed $\$ 65$, including bags, delivered
to the trade, less 25 c . per ton for spot
cash.
Baled Hay.-There has been considerable shipment to the United States,
Sales of No. 2 timothy were taking place at $\$ 30$ to $\$ 31$ per ton, No. 3 being $\$ 28$
to $\$ 29$ and clover mixed $\$ 26$ to $\$ 27$ per Hayseed.-Dealers report an active
Hent demand at unchanged prices. Timothy
seed was $171 / \mathrm{c}$. to 20 c . per lb., red clover and alsike being 65c. to 67c. sweet clover
40 c . to 45 c ., and alfalfa, 58 c . to 60 c , 40c. to 45c., an
track, Montreal

## Buffalo.

Cattle.-Cattle receipts were moderate at Buffalo last week and trade on butchering grades was strong to a quarter higher,
while on shipping steers, of which there were around twenty-five to thirty cars, totalled around thirty loads, prices on these ruling a quarter lower than for the
previous week. Eastern order buyers previous week. Eastern order buyers
maintaining that Buffalo has been out of line with western markets on these
grades. There was only a light supply grades. There was only a light supply
of Canadians, best shipping steers selling at $\$ 12$. Best native shipping selfor ranged generally from $\$ 13.65$ to $\$ 14.10$ with the best handy wright butchering steers selling around $\$ 12.75$ and $\$ 13.25$, yearlings (Canadians) reaching $\$ 14$. All classes of females sold readily at good, strong prices and were ready sale, some killers around $\$ 13$ to $\$ 14$. Light supply of stockers and feeders and trading more active in this division. Bulls of all grades found quick sale at full steady prices.
the good, heavy, desirable kinds of milk the good, heavy, desirable kinds of milk
cows and springers sold to better adcows and springers sold to better ad-
vantage than the medium and leess desirable ones. Offerings for the week
totalled 4,750 head, as against 3,800 head for the previous week and compared with
5,725 head for the corresponding week a year ago. Quotations!
Shipping Steers - Canadians - Best heavy, $\$ 12$ to $\$ 12.25$; fair to good, $\$ 11$
to $\$ 11.50$; medium weight, $\$ 10.75$ to $\$ 11$; common and plain, $\$ 10$ to $\$ 10.50$.
Butchering Steers.- Yearlings, fair to prime, $\$ 12.50$ to $\$ 14.25$; choice heavy, $\$ 13$; fair to goo $1, \$ 11$ to $\$ 11.50$; light and common, $\$ 9$ to $\$ 10$. $\$ 11$ to $\$ 12.50$; best heifers, $\$ 10.50$ to $\$ 11$;
 to $\$ 11$; best heavy fat cows, $\$ 9.50$ to $\$ 10$ medium to good, $\$ 8$ to $\$ 9$; cutters, $\$ 5.50$
to $\$ 6$; canners, good, $\$ 4.50$ to $\$ 5.25$.
 to $\$ 8.50$; light bulls, $\$ 7$ to $\$ 8$. $\$ 9.50$ to $\$ 10$; common to fair, $\$ 8$ to $\$ 9$; $\$ 7.75$ to $\$ 8.25$; common $\$ 6$ to $\$ 7$. Hogs.-Prices held up pretty well
the first four days of last week but after Wednesday values showed a heavy
decline. Weight continues to be the main factor in the making of the price,
heavy hogs, for which there is an indifferent demand, showing a big margin
under the lighter weight grades. Monday the bulk of the good handy hogs sold at
$\$ 17$, several decks of yorkers made $\$ 17.10$ and grades weighing above 240 pounds, sold from $\$ 15.50$ to $\$ 16.75$, low figure
taking an extreme heavy kind. Tuestaking an extreme heavy kind. Tues
day's market was generally steady
$\$ 15.50$ to $\$ 17$. Thursday prices dropped a quarter to seventy-five cents and Frida cents. The stil lower from 50 to 60 light hogs selling from $\$ 16.25$ to $\$ 16.50$ and prices ranged on down to $\$ 14.75$ for heavies. Receipts for the week were
27,800 head, as compared with 26,862 $27,800 \mathrm{head}$, as compared with 26,862 for the same week a year ago Sheep and Lambs.-Approx
900 head were here last week, being against 15,416 head for the week previous and 19,900 head for the same week a yea ago. Over ninety per cent. of the re
ceipts were lambs and a fairly good clearance was had from day to day Monday tops sold at $\$ 20$ and $\$ 20.25$ Tuesday's trade was unchanged, Wednes day and Thursday the best brought $\$ 20.50$
and $\$ 20.75$, and Friday the bulk moved at $\$ 20.50$. On-culls the range was from $\$ 18.50$ down. Sheep were scarce and steady a
from $\$ 15.50$ to $\$ 16$, and best ewes ranged from $\$ 13.50$ to $\$ 14.50$

The largest supply of th season was offered the past week, there being around 7,600 head. Offerings were and 4650 , ago. Trade was good all week. Monday top veals sold at $\$ 21,50$, Tuesday price were a dollar higher, bulk going at $\$ 22.50$,
Wednesday's market was steady ThursWednesday's market was steady, Thurs-
day the bulk sold at $\$ 22$, and Friday the calves moved at $\$ 22.50$. Cand 80 head the past week sold a dollar unde the natives.

## Chicago.

Hogs.- Heavy, $\$ 13.80$ to $\$ 14.90$ $\$ 15.50$; light light, $\$ 14.80$ to $\$ 15.30$; heavy packing sows, smooth, \$13.15 to \$13.65 packing sows, rough, $\$ 12.50$ to $\$ 13$ pigs, $\$ 13.50$ to $\$ 15.25$,
Cattle.-Compared with a week ago lower: heavyweigheight steers, mostly 250 good and choice heavy she-stock, 25 c . to 50c. lower; others mostly steady; veal and feeders steady to 25 c . lower. Sheep.-Compared with a week ago; fat
lambs, $\$ 1$ and $\$ 1.25$ higher; sheep, 50 c . lambs,
higher

## Victory Bonds.

Following were the values of Victory March the Voronto market, Saturday, 1922, 99 to 100 ; Victory Bonds, maturing maturing 1927, $991 / 2$ to $1001 / 2$. Victory Bonds maturing $1933,1001 / 2$ to 1011,
Victory Bonds maturing 1937, 102 to 103 .

## The General Ring.

Edtor "The Farmas As the telephone has found its way suggestion to pass on to the readers of
this paper which I know will be of benefit to many of them.
What surprised me most was to find
that on many rural telephone lines they that on many rural telephone lines they have no "general ring." I mean by this to answer. On our line the "general ring" is eight longs. When we hear that ring we know some one is in trouble or
such like. Here is an example of two such like. Here is an example of two
rural telephone lines; one with a "general ring," the other without one. A farmer's house takes fire, say, on the latter line and he has to telephone to his neighbors list of names of people on the lo the list of names of people on the line and
find out their rings and then ring up each one separately. By this time the fire may have such a start there is no chance of ever saving his buildings. Now take "general ring." A farmer's house take general ring. A farmer's house takes he has to do is simply run to the telephone fing the general ring, wait a few seconds till a few receivers is heard come
down and then tell the trouble. I have seen as many as thirty or more men, a
a farm house, in case of fire ten minute after the report was given. The "general
ring" is of use in different ways, namely, announcing, meetings, funerals and so
forth to save calling every one on the
line separately. Is it not worth while?

## Risen Indeed

Aye, the lilies are pure in their pallor, the roses are fragrant and sweet,
The music pours out like a sea wave Pulsin breaking in praise at His feet,
Pulsing in passionate
has risen agair,
But we watch for the signs of His living
Wherever a mantle of pity falls soft on a
Whereverª̀ peace or a pardon springs up Wherever a soft hand of blessing outWherever springs healing for wounding,

Wherever the soul of a people, arising in Bursts forthage and from the errors that shrouded Wherever in sight of God's legions the And truth wins a soul or a a kingdom, the
Master is risen indeed

So fing out your banners, brave toilers: bring lilies to altar and shrine;
Ring out, Easter bells; He has risen, for There's a iou is the token and sign, moving sunward and Godward; ye are calied to the front: Behind must lead
the the grave and the darkness the Master is risen inded.

A Home Planned by Four Girls.
$F \begin{gathered}\text { OUR sisters had been left. Father, } \\ \text { mother, brother and a sister, one by } \\ \text { one had }\end{gathered}$ one had gone, and these four had
possession and the care of a fine old house and about 500 acres of land. This was
in the State of New York, about 100 miles in the State of New York, about
from the Canadian border. The question Many will be ready to say, "We wish we
Mad that problem. Five hundred acres Many wit perobem. Five hundred arres
hat that tand free of all encumbrance!
of good lan of good land free of all encumbrance!
We would be overioyed to have that di ficiculty." Of corrse, there are few left so well of in one sense. But every life
has its problems. The choice narrowed down to these two, to sell out and retire
to some town or city, or to carry on to some town or city, or to carry on
where they were. Their place was in a purely country neighborhood, the nearest
village being two miles off. But they memory was associated with it. "I bush or tree but was like an old ifriend
place of the side verandah. The part
where the dining-room and kitchen are situated, which runs in T-shape back
from the main front building was raised to make room for bedrooms above, while underneath it was excayated to give space for an immense cistern, pressure tanks, storage battery for electric light system, two gasoline engines to give power for steam heating. Skylight windows were built in the front roof to give light to the newly-floored attic.
Inside the house old floors were taken out, and the shiniest and slipperiest of oak-surfaced ones put in instead. The homey old place with a long, heavy pine table in the centre, is now finished in oak. Doors, mantel and other woodwork are
all solid oak, no veneer. Fireplace with old-fashioned andirons gives the touch of old times so pleasant to have retained. The front rooms and hall have finishings in mahogany, and there are other signs showing that money has not been spared its easy wicker and other chairs and fire place with apple-tree wood burning in it so thoroughly a place to read and lounge and talk in that the grandeur fails to
oppress, the prevailing sensation being oppress, the prevailing sensation being
that of real old-fashioned comfort. Upstairs, as throughout the whole house, while the renovation has been thorough, the old things, doors, cupboards,
and such like, have been retained wherever possible, and the old home feeling with The woodwork of all rooms except those finished in natural wood is painted
one uniform color, old ivory, and it gives one uniform color, old ivory, and it gives
a most ,pleasing effect. "No graining or veneer," seems to have been the motto
in the reconstruction. Another thought in mind throughout has been to beautify A special instance of this is that of the
house, the little house which was home of the sturdy pair of emigrants the foundations of future prosperity. It had stood for many vears a little to the south of the present house, and was used as a storehouse and repair shop for garden repainted and moved some distance to the rear, and used as formerly with this addition, that a bed is occasionally set up to lodge an extra man or two, it really gives an added touch of grace to the

Improvements in the surrounding grounds are even more marked than in the house. The main part of the in front door in the centre facing east ward. From the front door a red brick walk runs straight to the front gate, fift or sixty yards disfant. The first fence is a massive structure of field stone and fitted together and, like Hebrew altar of old, untouched by chisel or hammer From the right front corner of the house a row of howering shrubbery extend in line with the front of the house to the screen of shrubbery hides from publi view the flower garden behind and the vegetable garden still farther back. The square between the brick walk, the stone lence in front, the south fence, and the the left of the house is what may be called the side lawn. It is about the same width
as the other, but is much longer from front to back, extending to the rear of the house
where the kitchen door opens out. Thi side lawn has an enclosing line of flowering where near the middle front of the lawn a massive double iron gate gives entranc for a carriage driveway which sweeps in graceful curves to the outer end of a
cross walk from the front door and con-
 Another out any gate is bevond the wall, but with. bery where it touches the front wall gives entrance to the butcher, the grocer closing wose driveway is outside the en: closing line of shrubbery, but ends at unlike the other, is not altogether of plan, grass, but has a few trees of different kinds which seem as if they had sprunt up of themselves, so nat ural looking are they, but which had been carefully chosen
and planted. Mention summer house among the flowers, and the round ornamental stone structure sur. rounding the chain pump near the south sized field stone than those in the fromwall, and is one of the most artistic and clever pieces of stone mason work that can be imagined. It is about $3^{1 / 2 / 2}$ feet in diameter by 7 cet in height. It is surpump spout projects through the wall about two inches only, but the crank is altogether outside, and the chain wheel is in plain sight through arched openings was the builder An expert from Boston the building of the front wall
The girls themselves planned the whole renovation scheme, but they secured the help of experts in working out the defort and fitness and good taste

Sweet Peas
WEET peas, on tiptoe for a flight,
With wings of gentle flush, o'e
And taper fingers catching at all things o bind them all about with tiny rings,
Experienced growers of this delightfil lower prepare the ground in the fall, so
the soil will be mellow and firm, but ifyoul have neglected to do so that is no reason for your being without your row of sweet peas, especially if you live in a locality where the soil is a good clay loam (they o not like sandy soll very well. times, when the soil is a clay loam, rich needed but to rake off the surface, put in the peas and firm the soil over them.
follows: On the very first day that it is possible
to work the soil make a trench about 24 to 30 inches wide, and hollowed out, 2 ? nches below the level of the ground. sary to work in some well-rotted fertisary to work in somt is good, or very old,
lizer, mellow compost
well-rotted cow manure. If the soil is ery sandy, also, it will be especially necessary to make a good, dauled for the purpose. Some growers do not mix the
certilizer with the loam, but put a bed f it at the bottom, covering it with inchee of good loam thoroughly packed down, the idea being that the roors Other
lee made "go after" the fertilizer. Other no fertilizer at all should be put in when he seeds are sown, but that, instead, hould be thoroughly soaked from weal to time with wash-cay She grower m
liquid manure.
use whichever of these methods seem use whichever oil in his garden.
adapted to the somber
A very important point to rememb the A very important point to remeck the
when making the seed-lied is to patk soil down very firmly, tramping it down
well with the feet so that it will be firm helow, about and above the peas. The peas may be planted the very day
the row is ready, the earlicr in spring the

April 1,19

## back. Another

 stone wall, ,but with.nd the line of shrab. butcher, the grocer, t ends at er. This lawn,
ogether of plain w trees of difterent they had sprung - 1 been made of the stone structure surump near the south 1 those in the front ee most artistic and e mason work that
is about $31 / 2$ feet in height. It is sur-
orative roof. The through the wall , but the crank is the chain theet arched openings was als
planned the whole ut they secured the
orking out the defect is that of com-

Peas.
ptoe for a fight, ching at all things this delightful pund in the fall, so so that is no reason ve in a locality clay loam (they
preparation is
the soil over them.
hat it is possible
trench about 24
d hollowed out, so
he row will be ?
the ground. \%f
it will be neces.
If the soil is
be especially
deep root-bed
hauled for the
not mix the
but put a bed
oroughly packed
the roots should
all good, say that
be put in when
, instead, when
ppear, the roots
Suds or weak
hods seem best
to remember
mping it down
the peas.
may follow.
the very day
in spring the
chance to de-

April 1, 1920
THE FARMER'S ADVOCATE
growth. When the bed seems firm enough scratch two litce
sapart and 1 inch deep and place the peas several inches apart then frm the soil over 50 to to f oeet or well as you can either with and about with a garden roller. Some growers recommend putting an inch of sharp sand on top of the bed dep. The the seed in to ensure perfect germination
sand helps tor
and ting.
roting be secured by starting a rell paton the house in smaar or early in March. When the drill is ready the balls of earth are the
turned out, without disturbing the root
and paced in the drill 18 inches apart and placed in the drill 18 inches aparts tree-roots should be chosen for the sweet peas, and the rows shoura run to sfter the peas come up no soil should be drawn up about the stems for 0 weeks, and even then then to told water) and its trench being ter mulch of lawn clippings place taken
or other mulch put on after water is applied, to keep down the moist ure. Some
-growers do not mulch, but give very fregrowers do not mulch, but give very Yre-
quent cultivation instead. Watering is quent cultivation instead in try, but it is
needed only when the soil is needed only the surface of the soil; a thorough
drenching should be given that will reach drenching should be given that will reach
down to the lowest rootlet. As the plants become sturdy a little $\underset{\substack{\text { hardwood ashes } \\ \text { surffe } \\ \text { d }}}{ }$ dressing of finely pulverized lime, as lime
is an absolute necessity for all leguminous is an absolute necessity for all leguminous
plants-beans of all kinds, clover and $\underset{\substack{\text { peas } \\ \text { As } \\ \text { phe vines grow a support must }}}{\substack{\text { plat }}}$ supplied-stakes with strings, poultry
netting, or twigyy boughs placed firmly netting, or t.
and stalked.
If red spiders appear they may be kept ously, thoroughly and frequently with water. For green fly or plant louse apply tobacco extract or soap solution. Cut-
worm may be banished by working worm may be banished by working a
mixture of bran, Paris green and sugar in the surface of the soil. Mildew may
betreated by dusting the foliage with be treated by dusting the foliage with
sulphur or a mixture of lime and sulphur. the vines..Just as soon as the plants $q 0$ tho seed they will stop fowering. Pick off the fowers just as soon as they fade.
It will be seen that the deep trenching It will be seen that the deep trenching
and filling in method is no longer conand niling in method is no 1onger conwas satisfactory, an advantage being that
the roots were kept moist and cool, but of late years blight has put in an appearance in many localities, and has in-
variably flourished best amoong the plants in deep trenches. For this reasongrowers
now plant, as a rule, on the level, or now pant, as a rule, on the level, or in
very shallow trenches as outlined above.

Your Health
"Run-Around." "Pheumatism." "."Constant Reater," Welland Co., Ont, finger? I have hatl a pain in my shoulder
for long time. I hlistercit it a year and
a half ago and it is sit sone a half ago, and it is still sore to touch."
Ans.-A run-round is an infection of the skin at the root of the nail. The flesh
ahheres to the nail. and as the nail grows
the flesh it cracks in the skin occur. Ged then small
and cause an sinflannuation. An inflammation caused by scrins is called an it
fection. Kecol skin at the root of the nail, If an infec
tion starts use ortinary tincture of iodine. Buy an ounce or two at the druy-store
Put it in a a glass.stoppered botte, because
it will son important to kecp the bottle corked be Cases the iodinc cyaporates. Praint the
papt treely 3 or 4 times a dav, It can do
no no harm. In fuct, cvery home should
have a bottle of iotine, Use it on every
cut or buise of have.
The pain in your shoulder may be caused by some froulle in your liver or
gall-bladder, or ly gall-stones, or even
angina angina pectoris. It may bes, neuritis oo
rheumatism.
Have about your teeth Mave you any cavities or crowns? I
would suggest that you ask your doctor
to make to make a careful cxamination and de-
termine the cause of the pain. The

Note the Quaint Stone Well-hous


Part of the Grounds
is good. But if your boy has hard ring. their invisible Companion is the Lord, X-ray treatment. Often one treatment be, their eves are holden that they do is sufficient. Resinol is made up largely not know Him because they refuse His
invitation, and they do not know Him you pay for a small can is profiteering of
the worst kind. It is no good anyhow.

The Children's Poem
The Rhyme of Dorothy Rose. Dorothy Rose had a turned-up nose.
Did she worry about it, do you suppos
 The no; but a plan she began to hatch, that the l.ord was Risen, With the words

[^0]differently, Elijah thought he was the was holding daily communion with seven thousand more. I am sure there are many readers of our Quiet Hour"unknown to me, but very dear to Christ wholeheartedly to His service, and answer His morning greeting with a loyal soldierly salute, as a private to a superior officer. He is Captain of the host, and Him. $\quad$. ower through contact with Him who is "The Life. We know nothing of the work accomplished about 6,000 years ago although he world still remembers that he walked with God. That was the greatest thing he did, and while he lived in this world he had the marvellous joy of knowing that We, also, may attain that glorious crown of success. Dr. Schofield writes: "Enoch did not know God from the Bible, for there was none. But wherever
Enoch was met with, his best Friend was Enoch was met with, there too. God nearer and dearer than anything or anyone else in earth or heaven -that is to walk with God:
Perhaps we may sometimes begin the
day by kneeling at the feet of the Lord, day by kneeling at the feet of the Lord, and them-in of His presence may be remembrance of His presence may be
crowded out. But those women did not meet Him-"Jesus met them." It was His "All hail!" that arrested their at-
tention. He is not dead, nor far away tention. He is not dead, nor far away.
His greeting can still give great joy to
His friends Lift up your eyes and you may see His face. Listen, and your the still small voice speaking to Please do not think that I always revery, very often, but I am sure He never forgets me. We (you and I) want to
walk with God along the common road of walk with God along th
life, therefore, we pray
"Raise Thou me up, no other hand can lift the burden'd spirit,
other heart can understand my human nature's limit,
Resurrection Power alo
Can mould and keep me for Thine Own.' Dora Farncomb.

The Ingle Nook



 4. AHempone woth in thr

A Message of the Eastertide.
 $P \begin{gathered}\text { messages for fifferent people; we } \\ \text { interretet thinss throukh our in }\end{gathered}$ dividual temperaments; an influence may ponerf exactly the same force in lile its touch. But surely to the most of is, in one way or another, the primary ressage of the Easter season is Hopl It comes in the spring ot the e eara, when
the bright sunstine is dispelinin, he gray clouds of winter; the hopead-oo
ruituluness of the sowing and harress Sultheads: after the gloom of "Good Friday", with its sad mentories comes the
iovous outburst of Easter Sunday with ioyous outburst of Easter Sunday with
its story of the Resurrect ion. And s.
 in no wise understand, appears as a to follow. If we "fight the goold fight the fight stall not be vain, hut at atreneth
 shall hite tagin, and even past he porta-
of death one would not will to le teslem but ever and ever more useful as opportun long : lirght 1 vistac of Eternit

Worth Thinking Over The life sublime is a life of service tood will to all. It has opposition for mistakes but, no persecution
for the mistaken.,-Mons Bander. for the mistaken."-Mons Bander. E.


Corner of Lawn and Residence of Sir Edmund Osler, Toronto
"What apparatus can destroy in a Bedroom Floor. Furniture Polish. ew minutes a hundred the birds for whom we plead? Our modern science has not yet found it. Man good hardware store probably; if n? is mad when he destroys these guard- the T. Eaton Co. keep it. It is doubtful
ians of our crops.' -Mons Bauder.
 foor, unless, possibly, the stain is so shallow that you can sandpaper it off.
Would advise you to treat the floor a regular floor-paint finish the floor to a rer three coats, first a filler, which callo
of paint, and last a finishing sten of paint, and last a finishing stain. Thes can be got at a hardware store. If you choose a good oak finish for the top the
effect is very good. For the "d sifect is very good. For the "dulled
tors sold for of the furniture renova tors sold for the purpose-say "ligova-
veneer,"" and rub hard with chat veneer," and rub hard with chamois or
fine flannel rag until a gloss appears Yes, varnish is "too shiny" for good
furniture. Wash it little by litt gol furniture. Wash it little by little with soft water, then rub hard with chamois
using plenty of "elbow grease" using plenty of "elbow grease." ormor
use liquid veneer. If you want to use liquid veneer. If you want to make
your own Furniture Polish Put $1 / 2$ pint each of turpentine, thinit $2 / 3$ pint linseed oil. Cork tightly $A$ shake the bottle vigorously to miv
thoroughly: Dust the furnitur thoroughly: Dust the furniture carefully
and remove any grease spots with and remove any grease spots with
flannel dipped in warm soda water
Rub dry. Pour a small quantity of the polish on a clean soft flannel rag and rul well into the wood. Do just a little at a time and polish off each bit at once with
a soft cloth. If only a small quantity a soft cloth. If only a small quantit easily than if the mixture is laid on thick
y. A Leap Year Party.

For "An Interested Reader," Glen
gary Co., Onld a " "popcorn party" do
How would is conducted somewhat as follows Send out the invitations written on cormcolored paper in tiny envelopes (yon can make these.) As soon as the guests artive each girl is presented, in the dresing.
room. with a necklace made of poporm room. with a necklace made of popcorn
sewed upon narrow ribbon. The ribbon
should be of different colors; if you have should be of different colors; if you have
time you can paint the popcorn, with watercolor, to match. When the girlo go town they find all the men adornd
with watch-chains to match. The "director of ceremonies" who, since it is a Leap Year Party, must be a woman, invites the girls to, seek their partners, which they do by seeking men who have
watch-chains to correspond either in color, or according to some distinctive bow or pendant affixed. Next all adjourn to any room where a good fire can be ept burning and the girls "do tho
satisfactorily enough to have a polish

Residence of Sir Edmund Osler, Toronto

APRIL 1,19
is carried by which is serv The tha me
and the mes that carries wiches, lemon, salted, Alter supp where a num where mistress
the ore to "pop each man mu Yeat. The the mistress are given. each to write
"corri" and or paragraph is called and prizes being a
for a poporn for a popcorr
candle-shade or home-ma
and yellow booby prize, being obliged
I hope th but probably
Nook heading must be allow Wo This week
to answer J. to ansorters.
come rescue. the rescue.
letters are as letters are as
Dear Ingle your corner wives do.
others, in th suggestions
our work an our work an
I have tried recipe and a
boon to me w boon to me w come and wis
FFarmer's
perhaps be perhans be g
put the wool hours and dr hours and dry
dry and fuuf
the covering the cover. Th
a lining.
the mill wher and rolled batting. Hop be of service Lanark of March how to make
perhaps I might help
carded into boiler and b
riuse well, a riuse well,
This makes (use rain w
bats will no ing that yo
made many almost as li We used to
gated Berli your home, bats made.
but if you into "fluffli
Trusting Wife.

Littl

At prese
Alway Ho
little boys w
Their ages
you want
you want
to Thomas
Aid Societ
Eg
Eggs Sc
milk, melt
and stir in
beaten jus
whites.
hicken,
add salt
of finely m
is carried by the men to the tables at which is served. presently, a nice supper. The table should may consist of anything and the merries out the idea-egg sandthat lemon jelly, lemon layer cake, temon ice-cream, etc., with the hot popcorn salted, and popcoriourn After supper all adjourn to a directed by where a nuss of ceremonies.
the mistress of ceremonis.
One is to give all pencils and ask each oirl to "pop the question in verse, while each man must write his opinion on Leap Year. The por ceremonies and prizes the mistress Another game is to ask are given. Ach to write eight nouns beginning with "corn" and form them into a senten or paragraph. the papers are collected: is called and the papen. Suitable prizes prizes being aga a party are a yellow paper for a popcorn pa yellow box of bonbons or home-made candy for first prize, and yellow paper dunce caps the latter booby prize, the recipi them all evening.
being obliged to wear I hope this is in time for ou party; vut probading which says that one month
Nook headin must be allowed in this department.

## Wool for Comforters

This week two friends have written
to answer J. M. H's. question re, wool for comforters. Always someone comes to the rescue. Ae are very grateful.- The Detters are Ingle Nook.- I certainly enjoy your corner as $I_{\text {am sure all the house- }}$ wives do. We, in our professton, like
others, in theirs, are always looking for suggestions by which we may improve I have tried J. M. H., N. B's. bread recipe and am sure that it will prove a boon to me when the han her for sending it. Farmer's wife, shear that, if she would perhaps
put the wool in boiler, boil it for three hours and dry in the sun until perfectly dry and fluffy it will not work through a lining. This we do before sending it to and rolled similar to the regular quilt batting. Hope this will not be too late to be of service to Fart wishes.

Lanark Cò., Ont. "Farmer's Wife."
Dear Junia.-In "Farmer's Adyocate"
March 1. "Farmer's Wife" asks of March 1-, "Farmer's Wife" asks
how to make wool comforters; and thought how to make wool I could offer a suggestion that might help: Before having, the wool carded into bats, wase boil, take out and unse well, and dry in the sun if possible (use rain water) and when carded into bats will not "creep" through any cover made many in this way, and they are We used to get a pretty shade of varieIf there is a woolen mill any where near your home, you could probably get your but if you cannot manage this pick into "fluffliness" yourself. "Farmer' Wife."

Little Boys Wanting Homes.
At present. there are at the Thomas
Alway Home, London, Ont.. thirteer

 o Thomas E. Kelly, Secretary Children's Aid Society, London, Ont.

Eggs in Variation.
$\qquad$ and stir into it o teaspoonful of butter beaten just enough to mix the yolks and
whites. Stir constantly until the eggs add salt to taste, also a tablespoonful
of finely mince 1 fresh parsley if you have


When buying a watch think first of quality

HE first cost of an inferior watch is a
long way from being its last cost Inwhere the cost of repairing such a watch ds its original price
Watchmakers nowadays receive high wages heir bills are apt to be very large for time Especially is this true of the cheaper imported movements for which repair parts are ofte It is far better to buy a Waltham. This gives you a high grade watch at a reas le price consistent with quality. Apart from accidents and the general over mechanism deserves, the good service you Waltham |Grandfather
Hall Clocks, Mantel and get from your Waltham means a real cash
saving over the low grade watch.
 The longer you carry a Waltham the less it service it gives you and you'll find its price
is very low indeed

## WALTHAM

waltham watch Company, Limited MONTREAL
Products



Collins Brooder Hatchers


Cycle Hatchers and Radio Hovers


The Collins Manufacturing Co.

nod store them in the coldest part of the
ellar. If left in the garden they will ellar. grow up a second time they develop

## The Fashions.

How to Order Patterns.
Order by number, giving age or
neasurement as required, and allowing at least ten days to receive pattern. Also state in which issue pattern ap-
peared. Address Fashion Department, peared. Adress Advocate and Home
The Farmer's Ad
Megazine, London, Ont. Be sure to sign your name when ordering patterns. Many forget to do this.
POSITIVELY NO PATTERNS WILL
BE SUPPLIED EXCEPT THOSE ILLBE SUPPLIED
USTRATED.



dress, 2 yards; coat, $21 / 4$ yards; -bonnet,
$3 / 4$ yard, nightdress, 2 yards; petticoot,
$13 / 8$ yard; ruffle, 38 yard; feeding apron,
$5 / 8$ yard; drawers, $3 / 4$ yard; rompers, $13 / 4$
yard; underwaist, $3 / 8$ vard; play
Current Events

Alsask Sask discovery is reported from G. H. Clark, Dominion Seed ComBritish Columbia will be the seed years of North America.

Pres. R. W. E. Burnaby of the U.F.O, was elected President of the Camadian

The Dominion Government has accepted Great Britain's offer of one light
cruiser and two torpedo boat destroyers to take the place of the absolute "Niobe" and "Rainbow."

A Dominion Council of Health has
been organized.
Hon. R. H. Grant announced that High power to dispense with written examinàtions in individual cases; also that stưdents. who fail in or are unable to write on June will have a second chance in September.
The Provincial Government of Ontario may appoint a commission to probe the
cost of producing milk in the Province.
On March 22 the Commons at Ottawa approved the formal appointment of the
Parliamentary Committee to investigate Parliamentary Committee to investigate
soldiers' pensions and other matters pertaining to the re-establishment of returned men.
The Canadian Council of Agriculture has planned for an international agrarian conference, to be held at an early date
and to include Canadian and United States delegates.
Since the U. S. Senate has definitely refused to ratify the Peace Treaty, the
United States is still technically at war with Germany, and will likely make a separate peace. The majority of the Republicans in the Senate supported titie
Covenant with reservations; the minority, Covenant with reservations; the minority,
headed by Senators Borah and Johnson, opposed the entrance of the United States into the League of Nations on any terms.
For the present, between the two, President Wilson, who has persistently fought

The political situation in $\underset{\text { England }}{\text { En }}$ is at present very interesting. Premier

1. Ioyy George has taken the stand that
the Labor party is Socialistic, if not even the Labor party is Socialistic, if not even
Communistic and Bolshevistic, and that if it came into power it would have to
cstablish communism or break faith with, the party. Because of this, he thinks,
L, iberals and Unionists should band toLiberals and Unionists should band toyether closely to resist. Me Laders, on the other hand, regard the
leaders Premier's declaration as a call to the
matching of class against class, and
and point to the recent decision of the Trade,"
Union Congress against "direct action," nion Congress against cirect a o the
or a strike policy, as a refutation of the premier's words. In general the Presd George's proposed "National Democratic party," while A. G. Gardiner even accuses him of aiming at a personal dictatorshe hope of a Labor-Liberal rapprochement in Britain is at an end becuse Mr.
Asquith says the Liberals will stand firmly against nationalization of industr Murders and other troubles continue
Marrass Ireland. The assassination of to harrass Ireland. The assassination Lord Mayor of Cork on March 20, believed to
be in retaliation for previous murders of policemen, has been followed by thate
assassination, on March 26 , of Magistrate Alan Bell, 70 years old, in Dublin. Upon that day 35 prominent Sinn Feiners whes
is reported from
uion Seed Com-
within ten years within ten years
$e$ the seed garden oy of the U.F. O
of the Canadian rnment has ach
offer of one light
boat destroyers boat destroyers

Health has
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on any terms.
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$\underset{\text { Premier }}{\text { England }}$
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of the Trade
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Mr. Lloy
1 Democrat
igarchy.
Is will stand
bles continue
nn Fein Lord
owed by the
of Magistrate
Dublin. Upon
Feiners were
and supplies

WTH FINGERS!
CORNS LIFT OUT

Freesone is magic! Corns and calluses lift right offDoesn't hurt a bit


A few cents buys a tiny bottle of the magic Freezone at any drug store. Apply aching corn or a callus. Instantly that choublesomef corn or callus stops hurting then shortly you lift it out, root and all,
without any pain, soreness or irritation. without any pain, soreness or irritation.
These little bottles of Freezone contain just enough to rid the feet of every hard corn, soft corn, corn bet ween the toes and the calluses on bottom of feet. So easy! So simple. Why wait? No humbug!

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 of Canada

Protect your Victory Bonds by Renting a Safety Deposit Box.

Deposit the coupons every six months in a Savings
Account and earn interest upon the bond interest a $3 \%$ per annum, compounded half-yearly.
If this is done regularly with
(say) a 15 year bond, you will (say) a 15 year bond, you will
aecumulate more interest than
princinal

CAPITAL AND RESERVES $\$ 35,000,000$ total resources - \$535,000,000 625 branches


[^1]have been sent to the south of Ireland to
forestall any attempt at a rebellion.
Germany's late * revolution appears
to be pretty well over, with the Ebert-
Bauer Government again in the saddle,
although, it is said, at the cost of sweep-
ing concessions to the cxtremists, includ-
ing the formation of a purely Socialistic
Cabinet, and the dismissal of Herr
Noske, Minister of Defense. The general
strike, which Ebert called, to the dis-
comfiture of the Kapp-Luettwitz at-
tempt, is over, but the workmen will
instantly resume it if the conditions
they demand are not carried out. Dr.
Kapp's coup, indeed, resulted only in
welding all the workmen together; he
achieved a result the very opposite
of that at which he aimed. Hermann
Mueller, German Foreign Minister, states
his belief that the miscarriage of the plot
shows that Germany is now safe for
democracy and need have no fear of
junkerism.

*     *         *             * 

The Supreme Council recently decided
to offer the protection of the I.eague of
Nations to an independent Armenia,
which would comprise Rusia Armenia
and certain territories taken from Turkey,
the country to have access to the sea by
the international port Batoum, According
to Archibishop Kholn, an Armenian from
Erivan, Tartars, at the instigation of
the Young Turks, recently murdered
17,000 Armenians

## The Windrow

Eatate at Riverate

 Frank Miller, Master of the Mission at Riverside, California, we were guests
of the Inn over Easter Sunday. It was a of the inn over Easter Sucay. there has
unique occasion. For years
been a pilgrimage each Easter morning unique occasion. For yearster morning
been a pilgrimage each Easto
to Mount Rubidoux to the sunrise to Mount Rubidoux to the sunrise
to Mice. A local paper says of this last
servic. service. A
celebration:
celebration:
From early in the night until the rising Fromeary in the
sun dimmed all other glowing torches the
gleaming cross on the mountain top. gleaming cross on the mountain top.
guided thousands up the rugged trails and along the motor road. Silver chimes
tolled out the knell of fading night, tolled out the knell of rading ning
and four clear sounding trombones from the Los Angeles Symphony Orchestra
thet the silver dawn with paeans of the met the silver dawn with paeans of the
coming Easter day. And then, like a flood of light there burst suddenalley, this hymn by two
sleeping valts throats:
thousand ther thousand the cross of Christ I glory,
"In the
Towering o'er the wrecks of time All the light of sacred story
Gathers round its head sublime.' A brief service consisting of a responsive scripture reading, sontion of the great
lowed. This recognithe Easter message
truth embodied in the by a vast company who had climbed
the mountain to hail the dawn of another the mountain to hait reverent and watch-
Easter morning with
ful hearts was something too uplifting and inspiring ever to be forgotten.
Our Dumb Animals.
$\qquad$
$\qquad$
$\qquad$ father in that
reproach fully
$\qquad$


## Serial Story

"His Family. (Serial rights reserved by the Farmer'
Advocate and Home Magazine.)

## CHAPTER XXX

And now he felt the approach at last uneventful times which come in family histories. As he washed and dressed for
dinner, one night a little later, he thought
with satisfaction. "How nicely things are smoothing out."' His dressing for dinner as a rule, consisted in changing his low wing collar and his large round detach
able cuffs; but to-night he changed his cravat as well, from a black to a pearl gray one. He hoped the whole winter
would be pearl gray, The little storm which Edith had
raised over John's presence in the house to John, and had moved him with his be longings to a comfortable sunny room in family nearby. And John had been so sensible. "Oh, I'm fine, thank you," he answered simply, when in the office So that incident was closed. Already
Edith was disinfecting John's old room to Edith was disinfecting John's old room to
her heart's content, for George was to occupy it now. She was having the on the walls. She had already purchased a small new rug, and a bed and a bureau and one easy chair, and was making a pair of fresh pretty curtains.
All right, let her do it-if only there could be peace in the house.
With his cravat adjusted and his thickcurling silver hair trim from having just
been cut by "Louis" over at the Brevoort, been cut by "Louis" over at the Brevoort,
Roger went comfortably down to his dinner. Edith greeted him with a smile.
"Deborah's dining out," she said. "Very well," he replied, "so much the
better. We'll go right in-I'm hungry better. Wen go right in- m hungry. No big ideas nor problems. Eh,
daughter?" He slipped hishand in hers, daughter?" He slipped his hand in hers,
and she gave it a littleaffectionate squeeze With John safely out of the way, and not
only the health of her children but their proper schooling assured, Edith was her self again, placid, sweet and kindly. And dinner that night was a cheerful meal
Later, in the living room, as Roger con Later, in the living room, as Roger con-
tentedly lit his cigar, Edith gave an appreciative sniff.
"You do smoke such good cigars,
father," she said, smiling over her needle, And glancing up at her daughter, "Betsy dear,", she added, "go and get your grand
father's evening paper."
In quiet perusal of

In quiet perusal of the news he spen
the first part of his evening. The wa did not bother him to-night, for there
had come a lull in the fighting, as though even war could know its place. And times were better over here. As, skipping al
news from abroad his eye roved over the pages for what his business depended upon, Roger began to find it now. The
old familiar headlines were old familiar headlines were reappearing
side by side--high finance side by side-high finance exposures,
graft, the antics and didos cut up by th graft, the antics and didos cut up by the
sons and daughters of big millionaires and after them in cheery succession the Yale-Harvard game, a new man for the
Giants, a new college building for Cornell, Giants, a new college building for Cornell,
a new city plan for Seattle, a woman "sporting mayor." In brief, all over th U.S. A., men and women, old and new hat risen up, to power, fame, notoriety, what
ever you choose to call it. Men and women? Hardly. "Children" was the
better word. But the thought did not
trouble Roger to-night trouble Roger, to-night. He had instead
a heartening sense of the youth, the wild exuberance, the boundless vigor in $h$ native land. He colld feel it rising onc
again. Life was soon to go on as before people were growing hungry to see the
names of their countrymen back in the
headlines where they belonged. And headlines where they belonged. And
Roger's business was picking up. He last week-he had always been vague on
the book-keeping side-but he knew it
was down considerably was down considerably.
When Betsy and George had gone to bed, Roger put down his, paper.
"Look here, Edith," he proposed

Remarkable Growth of the Mutual




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| lit |





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free of charre with fill in. foe fotion as to the forme tion of a zood band.
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## Dandelion Butter Ealar



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I have again secured a nice lot of No. 1 Red per bushel F.O.B. Listowel. I have also about 1,000 bushels of select yellow biennial sweet clover seed, the kind that makes finest and most
nutritious hay. Orders will be filled as received until supply is exhausted. Price No. $1 \$ 30.00$, No. $2 \$ 26.00$ F.O.B. Listowel. Orders accompanied by
J. W. SANGSTER, Listowel, Ont.

WILL MY NEXT YEAR'S CROP BE A SUCCESS?
GILSON
NISCO


BOY'S
GIRI,S rom can do it in vour SPARE TiVl How Magazine



 "It's
"I'
And
Roge
exper


## $\rightarrow$

ten in the evening, became a regular custom-just one hour and no more, intimately and pleasant
certainly smoothing out
Edith's three older children had bee first, when deprived of their aid, she had found it nearly impossible to keep her
two small boys amused and give them besides the four hours a day of fresh air
they required, she had soon met this trouble by the same simple process as sold, she had disposed of nearly all, and sent for Hannah to return. The hous was running beautifult
Christmas, too, was drawing near.
And though Roger knew that in Edith's heart was a cold Iread of this season, she
bravely kept it to herself; and she set about so determinedly to make a merry pluck drew closer still to his daughter. He entered into her Christmas plans and
into all the conspiracies which were whispered about the house. Great
secrets, anxious consultations, found in him a ready listener
So passed three blessed quiet weeks
$\qquad$
If there were any cloud upon his horizon it was the thought of Laura. She had
barely been to the house since Edith had cially in the days when things had looked dark for Roger, he had caught himself reproaching this giddy-gaddy youngest
child, so engrossed in her small "menage" that apparently she could not spare on her return from abroad had brought as a gift for Edith a mourning gown from
Paris, a most alluring creation-so much so, in fact, that Edith had felt it simply
indecent, insulting, and had returned it to her sister with a stilted note of thanks. But Roger did not know of this. There
were so many ways, be thought, in which Laura might have been nice to Edith. She had a gorgeous limousine in which she
might so easily have come and taken her sister off on little trips uptown. But no,
she kept her car to herself. And from her small apartment, where a maid whom
she had brought from Rome dressed her rushed her nciselessly forth, gay and wild and very rich. To what places did she
go? What new friends was she maling? go? What new friends was she making?
What was Laura up to? He did not like her manner, one evening
when she came to the house. As he
helped her off with her cloak, A sleek
supple leopard skin which fitted her figure
$\qquad$
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 supple leopard skin which fitted her figure
$\qquad$
chicken's mind could never have thith he it all out by herself. When asked whit she meant, she was smiling vague, with glance at Edith's youngsters. But she
threw out hints about threw out hints about the church and
even Christianity, as though it wer ing to pieces. She spoke of a fall. Renaissance, "a glorious pagan era" coming. And then she exploded a little bomb by inquiring of Edith,
are going to do for husbands, with hate are going to do for husbands, with hall hopelessly damaged? They'r killed or to be nuns all their lives!"' re not going Again her sister cut her off, and the rest
the brief evening was decidedly awkward Yrief evening was decidedly fast. And Roger did not like it Here she was spending money like water absorbed in her pleasures, having no husband, and through it all so with her of herself and her outrageous views about war, and smiling about them with such an air, and in her whole manner such a tone of amused superiority. She talked about Neitzsche and that sort of rot: she forom blithely of a Rome reborn, the "Wings of the Eagles" heard again. This part of it she had taken, no doubt, from her new Italian friend, her husband's shrapnel Pshaw! What was Laura up to? But that was only one evening. It was by, and Roger had soon shaken it from him, for he had troubles enough at home One daughter at a time, he had thought. And as the dark clouds close ahove him had cleared, the other cloud too had drifted away; until it was small, just on
the horizon, far away from Roger's house What was Laura up to? He barely ever thought of t But one night when he came home, Edith, who sat in the living room reading aloud to her smaller boys, gave him a significant look which warned him something had happened. And turning to take stumbled upon a pile of hand luggage, two smart patent leather bags, a hat trunk and a sable cloak.
"Hello," he exclaimed. "What's this? Who's here?" "Laura," Edith answered. "She' been up there for over an hour." Roger looked indignantly in at his daughter. "What has happened?" he asked, "I'm afraid I can't tell you," Edith replied. "They didn't seem to need me. They made it rather plain, in fact. Another quarre, 1 presume. She cam once for Deborah and flew up to Deborah's ro "Pshaw!" Roger heavily mounted the stairs. He at least did not feẹl like flying. A whirlwind, eh-a nice evening ahead! Meanwhile, in her room upstaris
Deborah sat motionless, sternly holding her feelings down, while in a tone now kindly but more often full of a sharp dismay, she threw out question after question to Laura who was walking the floor in a quick, feverish sort of way, with gestures half hysterical, her voice burst rage \& 4 de "No, this time it's divorce!" she dein which she had told in fragments of her husband's double life. "I've stood it "You enough! Im through!" ${ }^{\text {anm," }}$ Deborah said. She was fighting for time to think it out. "You want a divorce. Very well, Laura dear-but how do your think you are going to get it? The lawis are rather strict in this state. They allow but one cause. Have you any proois? proofs! He wants it as badly a I I do! Wait-I'll give you his very words!
Laura's face grew white with fury. "'It's entircly up to you, Sweetie'- the divorce you like. You can let me bring suit on the quiet or you can try to ighes hair in front of the reporters and tell them all about yourself!'" "Your husband is to bring suil against
"Youd you?," Deborah's voice was loud and you?". Deborah's voice was
harsh. "For God's sake, Laura, what do yumean?
"Mean?
you mean? I mean that he has proffl
"Mean? M
He has used a detective, the mean little cur, and he's treating me like the diit
curder his feet !
ore thing for a ore thing for a
for a woman! for a woman,
be mad, to get be memes! Turn names.
street!
Debo a blow. "Stop, this "You say
he has?" she d
"Why should he "Why shoulc about it? Are me, too?
"Oh, good hands and we "Quiet!
hand explain." don't unders about it-all y this. I see it thought you a
mind open to mind open to shut as tight as "Yes, tight! love of heaven
alone! I'll hav "You will not stand! He's a a man's life b "You can' "You'll say $n$ word! Me has
it is!" "Has he? were any help
like a nunlike a nun-
"Will you fool?" "I'm not!
you know it! love like min ages! You ne
Baird. You him, don't yo that you're it's cold, it's and your reass
help to me no help to me no
in the glass ov angry-frighte "Yes-I am plan, she let h "I know y
fair! You're women-mar sex-just as And you le
down-you afraid! But
living my life living my lif
not alone! thousands d New York abroad for $y$
Berlin, in thank God, husbands ca war! You else, don't hypocrisies marriage! will do soon
enough men "Suppose
me exactly interrupted. had just flas I've given y exacty ho
question of rubbish like know just "Who's "Where is "Right he
"Does he "Of cours "Will he my beast o quiet, you quiet,"
Deborah
"Then y
and leave $t h$
"What do
living room readi boys，gave him a
warned him some－ And turning to take f hand lugrage，two bags，a hat trunk ed．＂What＇s this？ nswered．＂She＇s hour．＂Roger ed？＂he asked． $t$ tell you，＂Edith er plain，in fact． whirlwind，asked at ad flew up to De－ eavily mounted the not feẹ like flying． evening ahead！ sternly holding
in a tone now
question after
was walk wing the
her voice burst
ivorce！＂she de－
ivorce．first outburst， her first out of her
fragments
＂I＇ve stood it
fighting for time
want a divorce．
but how do you
cate．They allow
s badly as I do！
ite with fury．
，any kind of
can try to fright
［！！＂＂n
was loud and
he has proofsl
ne like the dirt

APRIL 1， 1920
ode thing for a man，and another－quite for a woman！He even had the call me be mad，to get on his high horse，cal me names！，Turn me．－winced as though from blow．＂Oh，it was funny，funny！
Laura was almost sobbing now． You say that you＇ve been doing
he has？＂she demanded． Why shouldn you going to turn against me，too？
＂I am－pretty nearly－ hands and went on with her walking．
＂Quiet！Please try to be clear and explain．＂
＂Explain－to you？How can I？You don＇t understand－you know nothing You＇re simply a nun when it comes to this．I see it now－I didn＇t before－I hought you a modern woman－with your mind open to new ideas．But it isn＇t， it seems，whit as tight as Edith＇s is－
＂Yes，tight！＂
＂Thank you very much！Then for the alone！I＇ll have a talk with father！＂＇
＂You will not have a talk with father－＂ ＂I most certainly will－and he＇ll under－ stand！He＇s a man，at least－and he＇
＂Laura！＂
＂You can＇t see it in him－but I can！＂ ＂You＇ll say not a word to him，not one
word！！He has had enough this year as it is！＂ ＂Has he？Then I＇m sorry！If you were any help to me－instead of acting
like a nun－＂＂Will you please stop talking like a
＂Wian ＂Wool？＂
＂I＇m not！I＇m speaking the truth and you know it！You know no more about love like mine than a nun of the middle ages！You needn＇t tell me about Allan
Baird．You think you＇re in love with him，don＇t you？Well then，is the kind that can wait for years－because it＇s cold， it＇s cold，it＇s cold－it＇s all in your mind and your reason！And so I say you＇re no help to me now！Here－look at yoursel
in the glass over there！You＇re just plain angry－frightened！＂－Youre just plai ＂Yes－I am－I＇m frightened．＂While she strove to think clearly，to form some
plan， ＂I know you are！And you can＇t be
fair！You＇re like nearly all American women－married or single，young or old sex－just as your Puritan mothers were！ And you leave it alone－you keep it afraid！But I＇m not afraid－and I＇m living my life！And let me tell you I＇m
not alone！There are hundreds and thousands doing the same－right here in
New York City to－night It abroad for years and years－in Rome so Berlin，in Paris and years－in Rome and
thank God，it has come over here！If our weare－we＇re start，why can＇t we？And
war！You come with the war！You think war is hell and nothing
else，don＇t you－but you＇re wrong！It＇s not only killing men－it＇s killing a It＇s not only killing men－it＇s killing a lot of warriage！You＇ll see what the women
$\qquad$ Suppose you stop this tirade and tell
me exactly what you＇ve done，＂Deborah interrupted．A simple course of action ＂All right，I will．I＇m not a ashamed． exactly how I feel－that it＇s not any
question of sin or guilt or any musty old
ubbish like that I I know just what I＇m doing！＂＇${ }^{\text {＇＂W }}$＇ ＂Wo＇s the man？That Italian？ ＂Right here in Nuw York．＂
＂Does he mean to stand by you？＂ ＂Of course ＂Will he marry you，Laura？＂
＂Yes，he will－hre minute I＇m free from
my beast of a hutand！＂ quiet，your said，i！won wall keep his suit to fight
him．＂ Deborah rose i＂mptly：
＂Then you wil！
and leat right here to－nigh
＂We this $m$ to me？＂she said． ＂Wh＂eave this mar r to me？＂，she said．
＂What do your to do？＂

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## 5ALADA

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We have helped many over the rough plases，and have aided many more to the highest plane of success．

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Come in at any time and talk over your ffairs with us．You are always welcome
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WRITE OR CALL AT NEAREST BRANCH．

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They were thrifty．They were shrewd enough to see that he habit of saving meant the strengthening of character With the money saved they were able to take advantage of opportunities as they arose．

Resolve today to open a Savings Account in this Bank．
＂Wh
Laur
plussed
＂Yont wishes，＂，said Deborath steadili＂ ＂You want a divorce，dont＇t youl son do do I want it so hard that I want to make
sure．＂Deborah＇s tone was kinder now ＂Look here，Laura，if I＇ve toen hard，for give me－please－－and let me help．I＇n
not so narrow as you think．I＇ve bee through a good deal of this before－down－ own，I mean，with girls in my scher
They come to me，we have long talk one with a confessional．Not for sins ＂Sins don＇t interest me very much．th
troubles do．And heaven knows tha marriage is one，she sald with a curion there＇s no love left－as in your case－I＇ lips quivered just a little，＂I＇m sorry ear，and I want to help，I want to se t，if we can，I want to keep dad out of it －at least until it＇s settled．＂She paused moment．＂So if you agree，I＇ll go lutely，just what we can count on．And
until I come back，stay here in my room You don＇t want to talk to father a dith

Most certainly not！＇Laura muttere ＇ll send you up some supper．＂
＂I dont want any thank you．
Laura went and threw herself on ＂It＇s decent of you，Deborah．＂H voice was muffled and relaxed．＂I wasn＇ fair，＂she added．
the things I said．＂
＂About me and marriage？＂Debora looked at herself in the glass in a peculia her features．＂I＇m not sure but that y were right．At times I feel far from cer from，she said．Laura moment，dropped watch
＂Don＇t let this affect you，Deborah ＂Oh，don＇t you worry，dearie．＂ Deborah moved toward the door．＇My＇ make any difference．
But in her heart she knew it would for all that people meanteby sex！Sud denly she was quivering，her limbs and her whole body hot．
＂Cold toward Allan，calm she was thinking
nothing but mind and reason！Yo if I had had trouble with Allan，would Wouldn＇t I have hugged it tight？An isn＇t that love？What do you know how it feels to want to work，to be some thing yourself，without any man？A to live with Elith here and see wha
 vouring everything else in sisht
 Ind my love＇s worth more than you Then why do I loathe it all tonight fitil：：．．Allit ight，hene what an She was going slowly down the sta

－ーが，

ville journalist，said at a luncheon：
＂Andrew Carnegie declared that he
would die poor，but as a matter of fact
he died the second or third richest man
that the world has ever seen．

Dress Material

[^2] Stylish and New－So Easy Too

$\qquad$


## POULTRY CEGAGS OM

A BEAUTIFUL FREE MATING LIST READY ducers). Baby chicks, eggs for hatching, choice
pedirired cocks. cockeress for sale. Drop a card.
Bradley Linscott, Seven Acres. Brantford. AM BOOKING ORDERS FOR EGGS FROM
pure-bred imported, prize-winning White Hol-
 $\xrightarrow[\text { BRED-TO-LAY SINGLE - COMB W W H I TE }]{\text { Legho for hatching; fifteen } \$ 1.75 ; \text { thirty }}$ Leghorn eggs for hatching; fifteen $\$ 1.75$ : thirty
s3; nioe dozen 88 Charefully packed. Addison
H. Baird, R. 1, New Hamburg. Ont. BABY CHICKS - BRED-TO-LAY BARRED
 G. W. Grieve, Parkhill, Ont.
$\begin{aligned} & \text { BARRED ROCK COCKERELS, FOUR AND } \\ & \text { five dollars each. Get our mating list. Win- }\end{aligned}$ five dollars each. Get our mating list. Win-
ners at Ottaw Laying Contest. W. J. Johnston,
Drawer 246 , Meaford. Ont. Drawer 246, Meaford, Ont.
BARRED ROCK HATCHING EGGS, PURE
bred strai.,
Perth, Ontario. Perth, Ontario.
BEAUTIFUL WHITE ROCKS, BRED-TO-
LAY, large brow eggs; two dollars fifteen eggs.
S. Hastings, Schomberg. S. Aastings, Schomberg.
BRED-TO-LAY BARRED ROCKS - ONE BRED-TO-LAY BARRED ROCKS - ONE
seventy-five per setting, , five dollars per ffty
Henry Hoper, Guelph, Ont., 8 N Nottingham St. BABY CHICKS, HATCHING EGGS-BARRED
Rocks, White Rocks, White Wyandotes, Silver

 BABY CHICKS - SINGLE-COMB WHITE
Leghorns. bredt-o-lay in fall and winter. Book
your order now for April, May and June delivery;
 "BRED.TO-LAY" BARRED ROCK EGGS
O.A.C. strain. 82.50 per fifteen. $\$ 13.50$ per
hundred. Homestead Farm, Downsview, Ontario


 fertile. F. E. Van Loon. Box 217 , Delhi, ont.
BARRED ROCKS-EGGS FOR HATCHING





 GGS FOR SALE-WHITE WYANDOTTES,
silver cup winners. three dollars per 15. A. F.
Vaddell. Stratford. (nnt.



YOU WANT HATCHING EGGS FROMAA
heavy-laying strain of Barred Rocks, write
\&. Bishop, On ford Mills, Ont.

 S.C. ANCONAS-EGGS FOR HATCHING, $\$ 3$
and $\$ 4$ for fitten, from my best laving and ex-
hibition strains. E. Brown, 5N2 Grosvenor St.,
London.





A Plain Man's View of a Big Problem.
By Donald Stewart.
time
inte
sub
I inteligently,-and fearlessly, with the
subject of exchange rates. My search has at least shown me that nine men out of every ten are talking or writing about
the subject, but I am still on the lookout for an intelligent analysis of the subject. It seems to me that all the men who are
It writing about the subject in the newspapers and periodicals which I read are
afraid to deal frankly with the subject, for
fear of fear of wading into water that is too deep
for them. It is painfully evident that for them. It is painfully evident that
few of them are able to swim in the deep
waters of political economy. waters of political economy.
the idea that he is not capable of dis-
cussing problems of finance or political
economy and he seldom questions the
opinions so freely hazarded by bankers, opinions so freely hazarded by bankers,
railway officials, lawyers, insurance agents, grain dealers, wholesale grocers, manu-
facturers, and newspaper editors on these important matters. I have come to the conclusion that the average farmer is just as well-in-
formed on matters of political economy formed on matters of political economy
as the successful business men whose
opinions on problems of finance and poliopinions on problems of finance and poli-
tical economy are so widely distributed
through the pages of the press My experience leads me to believe
that the average bank manager news paper editor, wholesale grocer, railway
official, insurance agent, grain dealer manufacturer or lawyer, is woefully ignorant of those things which are not
part of his daily routine of business.
Take the matter of the rate of ex-
change, for instance. Bankers tell us
airily that the Canadian dollar is heavily
discounted in the United States be- cause there is a keen demand for American
bills of exchange. "It's like this,"
the garrulous lawer balance of trade is against Canada,
and therefore our currency is discounted ponderously proceeds to explain the
depreciation of the value of Canadian paper money in the United States by
pointing out that our export trade is
conducted on a credit basis import trade is conducted on a cash
basis. "Were himporting too much,
and our exports have dwindled, and when
a condition like this exists our moner discounted," opines the thoughtful in
surance agent.
needed to bring the dollar production is back to par,"
says the wholesale greer Says the wholesale grocer. "The Cana-
lian dollar is worth only 85 cents in the
United States," says the prominent railway official in an interview, "because
we have no gold reserve in the United
States. Our Government should ship
gold to Washington without delay,
ghe dollar would rise to par value,"
The newspaper editor mentios problem quite frequently in his editorial track on which -he so proudly exercises
his trim little mind day by day. "Buy
made in Canada goods," he umphantly, "and don't import American Thushe scribbles,'fondly believing that he
he has solved a great problem. One has only to note the many reasons
advanced for the chaos in the money markets of the world to realize that the
majority of thero must be wrong. The
balance of trade argument won't stand the examination, because our trade balance with the United States
is no worse than it has been in the past. exchange rate has been jumping up and keep track of it. It is plainly evident that pathy with the movement of our export akentrom ponderous books written abou It assumes that Canadian importm
scramble to buy American bills
change, I can't just see why they sl
bills of exchange could reduce the value
of every dollar bill guaranteed by the

$$
\begin{aligned}
& \mathrm{of} \\
& \mathrm{Ca}
\end{aligned}
$$ Canadian Government

The economists of the old school
always insited that shipments of gold
equalized exchange rates. I can see equalized exchange rates. I can see
where they would to some extent, but I am still looking for the modern economist who can tell me, in simple language, how a load of Canadian gold lying in the
Government vaults at Washington can Government vaults at Washington can
raise the value of our dollar in the United State, If it would rise the value of our currency in the United States, then 1 submit that there is no real economic reason for the depreciation of our paper United States. As for the arguments that greater production and restricted imports will bring our dollar back to par, I beg
lo leave to pass them by without giving them much attention. I merely pause to remark that our mports year, and there has been no slump in production. So why the erratic changes in the value of our paper money in the United States during the past month? Why should a street car company in the United
refuse to take our silver monev?
"I suppose that any sane man will
agree with me, when I say that Canada's agree with me, when I say that Canada's
future is assured. We are not facing future is assured. Although we have per-
a revolution.
sisted in electing Governments that are grossly incompetent, and although these Governments have smothered us with the natural development of Canada we look into the future with hopeful
eves. If I am not mistaken, we are on the eve of a political house-cleaning, and when hat is over Canada will develop as she American has boundless fait h in Canada's are purchasing the bonds issued by a least one of our Provincial Governments
at the prest time. No intelligent American beleves that our paper money will
not be redeemable in gold in the future;
to think so would be preposterous Then why is our money so heavily
discounted in the United States? In my humble opinion it is discounted, and
heavily discounted, because the business institutions of the United States, led by
the manufacturers, are pitifully shortCanada. The Americans are a highly strung race, and they know very little
about other countries. The average Am-
erican is extremely provincial in his Canada's future, and he will express money, just the same, because his neighbo
is discoumting it. It is my firm convietion in the United States is our currency
any substantial economic reason. Some I its own, hegan to slightly discount
or currency people who did business with this co by
and i
discol States. When a thing stats in the
United States, it is usually carried to
panicky disposition of the average Ameri-
can business man. It is my opinion that
our money will cont inue to be discounted,
no matter what we do, until the American
man of business recovers from the effects
of the brain wave that is at present
affecting him. Some
can financiers with wide influence will
begin to take our money at its face value





| A psychatric board vot- testing the -ntality of a thick-lineed, weak-faced gro somber. Among wher comestions |  |
| :---: | :---: |
|  |  | nor do I sec how the demand for


Apric 1, 1920

## Farm Fence and Gates

## BUY FROM THIS LIST

For Your Requirements This Year and Next. Order Promptly, While the Selection is Good
The wire used in the manufacture of Standard fence is the best that can be produced in any market in the world.
The wire used in the manufacture of Standard fence is the best that can be produced in any market in the world.
Both line wires and stays are foll gauge No. 9 hard steel wire.
Both line wires and stays are foll gauge No. 9 hard steel wire.
Tandard Fence is coatod with the best Galvanizing it is possible to put on wire.
Tandard Fence is coatod with the best Galvanizing it is possible to put on wire.
ence put up in 20, 30 and 40-rod rolls only
ence put up in 20, 30 and 40-rod rolls only
Heavy Farm Fence Made Throughout of Full Gauge No. 9 Hard Steel Galvanized Wire


## PIONEER HOLSTEIN FARMS

The Home of Long-distance Producers consigns to the

## Canadian National Sale

## Toronto, April 8-9

Two daughters of the great proven Sire, - PRINCE AAGGIE MECHTHILDE

## QUEEN ABBEKERK MECHTHILDE No. 29149

Born April 25th, 1913
A fine type of cow with all the quality needed to stand out prominently in any company. At 3 years she made 17.85 lbs . of butter in 7 days, and at four years she increased her record to 24.51 lbs . of butter and 583 lbs . of milk for the 7 days.

## PIONEER MECHTHILDE No. 52985

## Bern $16{ }^{2}$, 1916

One of the best young daughters of this great sire. At two years she made 16.78 lbs . of butter from 339.80 los . of R.O.P. She has just freshened and is now under test. We hope to announce a choice record on sale day

## BE SURE AND SEE THIS PAIR OF YOUNG COWS

## Walburn Rivers \& Sons Ingersoll, Ontario

## 100 <br> Head

## Carmichael Bros.

Clearing Sale of
Dairy Cows and Steers
At their farm, Lot 14, Concession 10, London Township, on Friday, April 9th, 1920

Twenty Registered Shorthorn Cows (6 have just freshened, balance Springing). Fifty well-bred Holstein Cows, to freshen
time of sale. Twenty Shorthorn and Angus Steers and Famous Cows. Two New Milch Jersey Cows.
Two Registered Shorthorn Bulls.

Two Registered Shorthorn Bulls.
Mr. Dairyman: In offering the above herd of cows by public auction, we feel satisfied that they are somewhat superior to anything we have offered in
the past. The dairy cows are the best money can buy; young, in good condition, and will satisfy the most exacting purchaser.

Parties from a distance will be met at the Walper House, London, at 12 o'clock. Usual terms.

STANLEY \& SHAW, Auctioneers.
CARMICHAEL BROS., Proprietors, No. 3, Ilderton, Ontario

## WANTED <br> CORD WOOD IN CARLOTS <br> Highest prices paid. We will buy any kind of 4 foot wood. <br> BEACHVILLE WHITE LIME CO., :: Beachville, Ontario <br> Subscribers! <br> for one year's subscription to MAGAZINE, LONDON, ONT.

Beekeeping Blunders. Some mistares often made by ber GINNERS AND OTHER AMATEU Sugar shortages have given an extra ordinary impetus to the keeping orst few in the United States during the past few years, for honey is the best substandeed for sugar that can be obtained. Indeed a couple of generations was widely used for so scarce hat honther back still, it was
sweeting, and furt the only sweet used at all. For 2,000 years bees have been kept and books written upon their culture, but only in the past few decades have methods been perfected for the production of honey in large quantities, till at the present business
there are individuals in the busin whose crop is counted not in pounds but in tons.
in tons. ranks and, as we may expect, every year sees disappointment in a proportion of these attempts. Even where he be from not actually die in winterng, ome misdisease, the which robs him of his honey crop and puts off till another season the possibility of his getting back the money invested in the bees. So here are a few pointers:
Do not get away with the idea that beekeeping is a matter of learning a few less actual attention than any kind of stock, but that attention must be given at the right time. Honey is produced mostly in short bursts of work, and unless the bees have space to store it they will stop gathering and swarm. Swarms issue without warning unles tions of his apiary, and again promp attention is necessary to save them from absconding. Winter losses are nearl always the result of lack of care at the right time. There is no royal road to success for different localities demand different methods and a thorough stud art is the only sure means of building a profitable bee-yard
The first rule of beekeeping is to keep the colonies strong, for only powerful swarms do the best work in the gathering of honey, and only populous colonies will survive the winter in a condition
fit to build up their numbers the following spring to an effective point. Too rapid the progress of many beginners, for in their anxiety to have a large number of hives they weaken the colonies by frequent increase to a point where the - bees are too few to keep warm in winter not able to breed up rapidly enough for the summer honey-flow, while if disease is present the weaklings are the first to
succumb and in doing so the trouble is spread by the infected honey in thei forsaken home which is plundered by If natural swarming is allowed only one swarm should be taken from each stock till only powerful colonies are left. If artificial increase is attempted the utmost colonies abundantly strong before the Many a successful apiarist has started hive and equipment that is not of standard size and shape, and almost without
exception they have found it good practice to replace them with standard goods at
great expense when they had accumulated a few hundreds of such hives. Therefore when beginning nothing but standard
factory-made hives should be purchased,

## increase his equipment quickly and easily.

 hives and supplies weres where spare$\qquad$
$\qquad$
$\qquad$
are grown. In this case you honey-producing bees by putting in rather than one that does med nectar; but aim to get the crop y yie not honey. Then if a little honey loy so much the -better. Alsike or is go clover are the flowers most general used and perhaps buckwheat. Beyon for bees, for in anythin to grow flower locality they have all they a favorablit from wild flowers in good weather hand In the United States Patent Washington are more than 2,500 diffe patents for inventions relating to th culture, and not mbre than hali a do It is yery have ever amounted to any It is very tempting to try out all kindst he has made a discovery that will tionize the art the beginner is well adva to consult the editors of the bee-iouma who have mostly had abundant experionic in these matters.
One of our best authorities was insistent in his teaching to "keep more bees," made in keeping too few than in too many. The exact number depend on circumstances, such as the amount of time and supplies available, and where one has no experience whatever it is always well to start small and slowly build up. Wherever there is diseas kept as can receive the personal vision of their owner, so that the infections diseases can be immediately preventel from spreading.
Last but not least. More colonies die from starvation than from any oflie cause, and starvation nearly alva, occurs in winter. See that every colopy.
is heavy with honey in fall, or feed suop to make up the deficiency. There sulol be at least 30 pounds of food in the hive to be sure and a few pounds extra winh not be wastea. If the bees do not is it in the winter they will turn it in young bees in spring by feeding it brood and these in turn will gath many them. "Keep bees right and sor they will keep you."

## Sale Dates.

April 1, 1920.-Norfolk Holstein Clu Ont. Dr A E. R Eden Mills, Ont.-Shorthorns and 0 ford-Down ewes.
April 7, 1920.-J. B. Hanmer, Nor wich, Ont.-Holsteins.
April 8, 9, 1920.-Canadian Nationa Sale of Holsteins, Union Stock Yard April 9, 1920.-Carmichael Bros., R. April 9, 1920.- Carmichael Bros, April 20, 1920.-Aberdeen-Anguscath Albany, New York.
May 12, 1920.-Elgin Pure-Bred flol stein Sale, St. Thomas, Ont. Cattle Breed May 20, 1920.-Ayrshire England, con signment sale, Springfield, Mass, Association, Exhibition Grounds, Toronto Ontario.
June 10, 1920.-Second National Ayr shire Sale, Chicago, Ill.
June 15, 16, 17 and 18.-LiveStocl June 15, 16, 17 and 18.-Livestoc
Breeders' Association of the District o Beauharnois, Limited, Ormstown, Que.
One Hoyt was fishing from the banks of a stream when there approached hi an individual named Gates, who ren marked with a yawn: "Time ants plain valuable to you, brother, thre hours
Here I been a-watchin' you thre and you ain't had a bite.
"Well," drawled the fisherman, "m time's too valuable, anyhow, to wash that
three hours of it watchin' a feller fish ain't had a bite."
Avery Hopwood, the playwright has
often gone on record as opposed to often gone on record as opposed to
the present efficiency-expert craze, de the present efficiency-expert craze,
claring that it is all bunk and nothing but an expensive fad. "as in everythint else, there are exceptions. There waa
Boggins, for instance. Boggins was great efficiency man in the office, but
gren time Bore so at home. Junior was naughty, lif father laid him on the foor and spread rug over him, so that the beating would
kill two birds with one stone, as you mifit


## You Should Buy Genuine

 International RepairsMade Exclusively For

By the

## International Harvester-COMPANy

REPAIRS made for International implements and other farm operating equipment by this Company are the only repairs made from the original patterns. All others are copied from copies, and in this roundabout reproduction they may lose in correctness of shape, sharpness of detail, closeness in fitting, and quality of material used.

## Genuine $\mathbb{H}$ Repairs <br> for Deering, McCormick and other <br> International-made Machines <br> Are Better in Quality Fit Better and Wear Longer

The Harvester Company makes good machines and stands back of them. We want them to make good. Is it fair then, to us, to the machines, or to yourself, to substitute an imitation for the genuine when repairs are needed? Repairs made by other concerns and marked "Made for" or "Will fit", are not genuine I H C parts. They often lack weight, are not always correct in shape, are imperfectly finished, do not fit properly, or are made of inferior material. Buy Genuine International Repairs for your International Farm Equipment.

## Beware of Any Other Kind

International Harvester Company of CANADA tro.<br>HAMILTON CANADA




[^3]e for Ayrshires, dollars is a record pic
bull, and was paid orbett, for "Habal at the springes a bsland", the home
onkton, in Scotlan opped on March fitit
re, was scarcely February 21sty a yitan bssland Lucky, Boy, it Awake." The dan
obsland Jean sthe h rpiece" Canada's foled ring "and record bull"
 milk in s and in 1919 per 10,0 re.has a mecord of 8,60 ecord of 45 wed ecord of 13,190 lbs.
ilk in $48, ~ w e e k s . ~$ backed his value. by priced boll mas er" by Scotland's Bast cestry. This bull sold nother young bull of osland Rop with stroies 800. "TT Favorite" 1800 . Howick, as keen after who who ,000.00 for him He , a grandson of "Hob " for $\$ 1,37500$ Thi nd's Best" by "Master-
of this bull has reendis Etesting 3.84 per cratt
and $10,540 \mathrm{bs}$, of 308 43 weeks, in 1918 and 250 he dam of the site 5. Mr. Nesp also purr. 1919, by Prarado alized \$23,970,00 or an 88.00 each. Six heifer r. Barr's. 1919 crop im nearly 828,000 ,
informed that the nostly fresh, at Hobs. nost impressive sigh ere milking over 60 ibs. Farming News," coning
le calls it epoch mating ales in several succrestuil obsland is the best. och sale 21 bull calves averaged $\$ 350$, The 2,350 was for "South ire:" and $\$ 2,100$ for gh sale 14 yearling bults the favor that Ayrg with in Scotland. B., with aboult have got no they are a superior
W. F. STEF IES.

## eserves Openec

 ttlementof the Soldier Settle or throwing open about aber of former Indian The Reserves are: miles northeast of viced into 57 farming per farming unit. Touchwood Hills Die8,075 acres divided
units averaging 278 northeast of Regin. eraging 302 acres, Aver eraging 302 acres, A
$\$ 4,015$ per farming unit.

$12 \times 24$ Tractor

## Save Money by Reducing Labor on the Farm get our tractor and separator

 Write for CatalogueMacDonald Thresher Company, Limited STRATFORD

ONTARIO

$24 \times 46$ Decker Junior Separator

## Putting Money in the Bank

regularly is better than Life Insurance if you live.
Yes, if you live, and also if deposited regularly! But how many live long enough to accumulate sufficient to provide for their family after they have gone?

Again, there are not very many who deposit with persistent regularity. Therefore, there is no doubt that Life Insurance is the better and certainly the safer way of accumulation.
Interesting particulars of suitable Policies will be mailed you on request. Write, giving name, address and date of birth to

The Great-West Life Assurance Company
Dept " $Z$ " Head Office: WINNIPEG

Composts as a Source of Humus and Nitrogen.
(Experimental Farms Note.) The examination of' many types of soil -clays, silts and sands-virgin and cultivated, has furnished evidence of a very emphatic character regarding the
fundamental seni-decómposed organic matter (humus) as a soil constituent. It acts mechanically in improving tilth, lightening and mellowing heavy clays and increasing the moisture-holding capacity of all classes of soils. It supports the microscopic life of the soil, the function of which is lo prepare plant food for crop use. And, lastly, it is the natural storehouse of nitrogen-the most expensive of all
plant foods when purchased in the form plant foods when purchased in the form
of fertilizer. One of the chief objects in view in any intelligent, rational method
of soil management is the upkeep and if possible the increase of the soils humus content. Applications of farm manures and the turning under of green cropsclover, bưckwheat, rye, etc.--are the principar meanco soil and these may be materials to the soil, and effectively by
supplemented. cheaply and supplemented. cheaps market garden,
composts. Every arm, every nath heap, for such
should have its compost affords the most economical (and sanitary) means of utilizing the vegetable and animal refuse, indeed all forms of organc waste. To enumerate some oused in
materials that can be profitably u materias potato tops, cabbage leaves, waste straw, dead leaves, kf ditches road
old sods, the cleanings of scrapings, muck and peat, pond and stream deposits; all these materials and many more rich in organcic inted into by composting
a forcing manure of very considerable value by reason of its humus content
and its store of readily available plant
food. In these days it behooves us to abandon our wasteful ways and utilize
everything that may make the land more productive. The practice of burning all organic refuse is an exceedingly waste ful one and should only be followed when, spores and seeds of injurious insects and plants the composted material would be likgly to disseminate disease.
The making of the compost heap is a very simple affair. It can be built up, of
alternate layers, of say six inches, of refuse' (including swamp muck if such is obtainable) and manure, to any convenient height, covering the whole with a few inches of good soil or muck. The heap should be kept moist, that decay may proceed, but not so wet as to cause drainweeks or several months, according to the season of the year, will be a manure of very considerable fertilizing value, capable of improving both clay and sandy loams and especially useful for vegetable and garden crops. and its store of readily
 those footsteps-the need of surface protection.

Any family circle that loves its home will appreciate the value of saving the surface.

If it's the kitchen floor, whether wood or linoleum, think of the wear from treading, scraping, hurrying feet.

If it's the furniture think of the friction and damage of constant use.

If it's the outside of the house think of wood and metal and their constant exposure.

The responsibility, the financial responsibility, that is carried by a coat of paint or varnish is impressive. It stands between you and serious loss. But neglect to provide the protection which such a coat ensures, shifts that responsibility to the owner's shoulders.

Why run the risk of expensive repairs when they can be avoided through reasonable care? Wood, metal, concrete, stucco-all are materials which will give back richly in long service for the small expenditure needed for surface protection. Save the Surface.

THIS ANNOUNCEMENT is issued by the Caradian Save the Surfoce Preservative and Protective, volure of Paint, Varmish and Allied Products for Preservative and Proncetiove waluo ond haint received the appproval of the Canadtion Trade Commission in the following words:
"The realization of the above objects will lead to employment
during the Reconstruction Period and bears our entire appron
 THE CANADIAN TRADE COMMISSION
"SAVE THE SURFACE AND YOU SAVE ALL" RucEVENM



Raise Calves Without Milk at Extremely Low Cost
$\mathrm{G}_{\text {many }}^{\text {rofast CALF mBAL has been doing thous for }}$ in Canada.
Read whet W. B. Poole of Ingorsoll has to gay about INTERNATIONAL GROFAST CALF MEAL
panamIngersoll, Ont. to those who are endeavoring to raise good stock, with the


 and I find Your Calf Meal an excellent substitute. The
Sireat the head of my herd is King Johanna Ranwerd,
Whose two nearest dams average 27,220 lbs, of mill in one , and 1,060 lbs, of butter
Wishing you every suc

> I remain, Yours Yours very truly,
W. B. POOLE
TET IT! Sold in 25,50 , and 100 pound hags. For guaranteed Sold by dealere everywhere, or write ue INTERNATIONAL STOCK FOOD CO. TORONTO

CANADA


## OCKSHUTT

## Cockshutt Manure Spreader

Gets the manure on your land as it should beevenly spread and just when it does most good


> When you consider the increased yields other men are getting by properly manuring thei that an efficient spreader is an absolute necessity on every farm and one that will very quickly Light draft, margin of strength, are notable in and ample Manure Spreader. Mark that word 'Spreade' it means something vastly different from a mer "unloader." The Cockshutt has three distributing cylinders that pulverize the manure to a fine degree and then spread it evenly over wider area than the machine's own width Let us send you our special Manure Spreader Cockshutt Plow Co.

The Frost \& Wood Co.
Some outstanding features of the Cockshutt Manure Spreader Box, frame wheels very strong without surplue Easy loading-top of box just $41^{\prime \prime}$ from groundWo
No gears to break or freeze up. Chain drive, the
strongest known is strongest known, is used
Easily worked levers, convenient to driver, control the operation of the machine.
Bottom of box is stationary. Manure is moved by endless chain carriers with heavy steel angles.
No aprons, slats or rollers to gut foul or broken Front wheels set in under frame, allowing short Front wheels set in under fram
turns ; hitch is close to ground.
Seat tips forward out of way during loand


Montrea
St. John, N.B.

## WANTED

24aw

The willam wetd co., htad
Gossip.
W. Enaignment Daughters of $30-\mathrm{lb}$. cowe telling in consignment from Wore numerous in ville, Ontario, from W. F. Elliott, Uni dile, Ontario, than in any other slliont catalogued for this sole. Elliott has in all ten head listed, elsewhere in this issue, it will appe that four of the ten are daughters notio cows. Three of the four refersed to cwo-year-old heifers, and the other is also heifer, just a year old. It might be well also to add that two are well forward in
service to a $32.26-\mathrm{lb}$. son of k service to a $32.26-\mathrm{lb}$. son of King Eeto
Sylvia Johanna, which carries five per cent. the same blood as Carnation King Sylvia, the $\$ 106,000$ calf. Withthe offering also comes three daughters of May Echo Sylvia's daughter's son, May these is a $27.46-\mathrm{lb}$. cow which has a $24 \mathrm{~m}^{2} 8$ lb, daughter; a $19.92-\mathrm{lb}$. two-year-nid full sister of a $34.68-\mathrm{lb}$. cow; and last buit not least, Rag Apple Echo Sylvies, 2 two-year-old son of Champion Ectio
Sylvia Pontiac, from a 24.09 lb . daughtor of Rag Apple Korndyke 8t
Splendid Yearly Record Oftering. Probably the most outstanding long.
distance offering to the Canadian Noting sale, to be held at Toronto on April ${ }^{5}$ and 9 comes in under the name of $A . \mathrm{F}$ Cornwell \& Son, of Norwich, Ontatio. With one exception, Messrs. Cornvells offering backinge head the exception is less than a two-year-old daughter of the great $37.38-\mathrm{lb}$. three-year-old heifer, Biva Spofford. Two daughters of Prince Colanthus Abberkerk heads the list of year record females, both having made their
records last year in the two-yearold form. Bessie Posch Colanthus, the higher record cow of the two, has just completed
her year with 18,120 lbs. of milk and 731 her year with 18,120 lbs. of milk and 731
lbs. of butter, while Colantha Mercena lbs. of butter, 18 , Beulah, the other sister, has 1,800 las:
of milk and 730 lbs. butter. The later is a daughter of Countess Mercera
Beulah, which has a yearly record of Beulah, which has a yearly record of
27,310 lbs. of milk and 1,200 lbs. of butter, and also a seven-day recorisof Both of these heifers are due just at sile time to the service of $34-\mathrm{lb}$. bred sons of Avondale Pontiac Echo. Queen Colantha Dewdrop, another yearly recori heifer, has 19,436 lbs of ilk and 850 1 bs . of butter. She is bred to the tho. year-old son of Countess Mercena Beulah already mentioned above. This bull isa splendid individual, a little more dauk than white, and also sells in Messis Cornwell's offering
Avondale May Echo Offering.
With Mr. Hardy's Avondale consige. ment to the Canadian National sale, it Echo Sylvia blood than has ever before been catalogued for a public sale in America. Many of these, too, are young
things selling undeveloped, and their things selling undeveloped, and their value can no more be estimated ay Echo age than could the value of May
Sylvia herself when she came untested to the Avondale herd, some seven or eight years ago. Mr. Hardy's sales from this one family have perhaps totalled well
up to a half million dollars, and who up to a half million dollars, and who
is there can say but that in these young is there can say but that in these carry-
things selling at the National and cal ing the same blood there are not equally bright futures. The two young daughters of Champion Echo Sylvia Pontiac have the advantage over their illustrore
grandam in that they have two mor generations of record breeding, and one of these sells within a week of calving to the service of a young sire that carries
seventy-five per cent. the same blood seventy-five per cent. the same there
as the $\$ 106,000$ bull. Then, too, then is a $31.86-1 \mathrm{~b}$. junior three-year-old heifer, Hillcrest Rauwerd Sadie, which sells safely bred to Champion Echo Sylvia Pontiac. Still others which are bred this great young sire are a foughouter of daughter of a 32.59-1b. grandaug-year-old
Pontiac Korndyke, and a two-d daughter of the former Avondale herd sire, Woodcrest Sir Clyde. Wooderes Clyde also a two-year-old daustanct
listed, is bred to the long-distan listed, is bred to the long - distasby.
junior sire, Winterthur Korndyke Ormsby Canada completes the offering.
ossip,

| $0-\mathrm{lb}$. cons sellint. |
| :--- | more ous selling in tit n W. F. Ellous in th han in any oth ued for this sale. 11 ten head liesed issue, it will be appean issue, it will be no the four referred to rs, and the other $i$ al

rold. It two are wight bee 8.bb. son of King Eht
which carries zame blood as
106,000 calf hes three dau hater 's daughter's son May Cornucopia. Followisi
 Apple Echo Sylvis on $24.09-1$
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ly Record Offering. most outstanding long
othe Canadian Nation at Toronto on Appil? nder the name of $A$ al
of of Norwich, Ontaio head all have yearly
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not
ar-old daughter of ee-year-old heifer, Biou aughters of Prine cil heads the list of yealiy.
oth having madde oth having made ticio
in the two-yearod th Colanthus, the ligher two, has just completed
20 ibs. of milk and 713 tile Colantha Mer
sister, has 17888 butter. The latter
Countess Meroma ilk and 1 yerly record of iilk and 1,200 lbs
a seven-day recore
 $=:$ Echo another yearly reocir ipleted a y three-yearosid lis. of milk and 850
he is bred to the two untess Mercena Beiliah
atove. This bull $a$ a an a little more blat
also sells in
y Echo Offerin y's Avondale consiem ,
dian National sale
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than has ever belo ese, too, are young e be estimated at thisi e value of May behin to
ine came untested
in , some seven or eigh h's sales from this that in these young
National and carrv. ere are not eaually Ivia Pontiac have y have two more week of calving ame bloode
too, there
-old heifel, adie, which sells and granddaughter of
 long - distance Korndyke Omsmy. King Pont
he offering.


## Kreso Dip No. 1 (STANDARDIZED)

Parasiticide. Disinfectant. USE IT ON ALL LIVESTOCK To Kill Lice, Mites, Fleae To Help Heel Cuts, Scratches and
and Sheor USE IT IN ALL BUILDINGS To Yill Diseave Germes and Thus eng to bie EFfictent. Economica FREE BOOKLETS.
We will send you a booklet on the ange, arthritis, sore mouth, etc. We will send you a booklet on how
to bailid a hoo wallow, which will keep We will send you a booklet on how wites and disease.

Animal lidustry Departuent of
PARKE, DAVIS \& CO. WALKERVILIE, ONT.

## SEEDS

We sel! high-grade Ontario Grown
Seed Corn, on cob and shelled. Also Home-Grown Alfalfa, Red Clover, Alsyke, Timothy Seed, Marquis Wheat, Oats, Bariey, Peas, Buckseeds in packets and bulk.

## FEEDS

Linseed Oil Cake Meal, Cotton Seed Meal, Gluten Feed ( $23 \%$ Protein)
Shorts, Feeding Cane Molasses (in barrels) Feed Coin and Corn Meal, Feeds, Poultry Feeds and supplies.

Kelley Feed \& Seed Co.
Dovercourt Rd., Toronto

## SHAVINGS

Baled shavings in carload lots for immediate shipment.
The Boake Mfg. Co., Ltd.
Howland Ave. and C.P.R. Tracks,
TORONTO

## Steel Rails

For Reinforcing Bridges - Cut any Length

JNO. J. GARTSHOR
58 Front Street West

## Forest Conservation.

 Editor "The Farmer's Advocate":I was much interested 'in a picture of woodland scene shown in the "Advocate
two weeks ago, presumably a suga place-a pretty scene all right and or that might rightfully belong to a park but pathetic when viewed from nature's intent of the all-wise Power guiding t destinies. Desecration! Can I' choose better word to express man's heedless
senseless management of what he think to be his own affairs. I sometimes
wonder that our punishment is not mor
severe severe. But how many of us come
tarry, and pass on, all unknowing that we, or, at least, the race through Oh, why will our wise men not lea wisdom! Why will not our represent being our best, not try and protect what generous nature not only has provide ing, from the point I started to touch, in my indignatio
The particular grievance that your truction of pur sugar-places. How the de dowe hearthe farmer mourning about the are dying; that he believes he will the hem down and sell them for wood. No this same man would feel very sore if you old him he was a fool and apparently ncapable of improvement, but such h nigh hopeless. Now, for pity sake, let us stop; let us begin the protection of our forests, our wood-lot, and particularly our sugar places. It is very simple and
a half dozen words tell the remedy, but will take nature many years to und allowed to take place. It may have been proper for them when the country was new, when every energy was centred on
the clearing of the soil for the production the clearing of the soil for the production
of sustenance, to graze down the grown vegetation, but that day has long passed
still the vicious habit clings. When I saw your illustration I though enough ten years ago to have brought the camera into play, and to-day I might what been able to give you some idea of years hence. Ten years ago I studied mis same situation over, and for exper tically all of my woodland, leaving only sufficient for shade to the stock. True 1 lost much feed-many things that the ut ten years have shown what nature will do if we but give her a chance, not only in replacing the young shoots but in reclaiming the mature trees when once hoof-beats of horses and cattle. They cem to have taken a new lease of lif ecognized as that of ten years ago. I would like to touch our lumberme in a vital spot; I would for not knowing Canada has interests to be safeguarded
not only from foreign exploiters but from ourselves. Look about our hills to-day the sun-monuments of the ruinous forest fires of some ten years ago, whos
origin, due to carelessness of hunters and others, was scarcely to be unexpecte among the fire-traps prepared by heedles and wasteful lumbermen. But even the we been prepared-had we had a systen
and laws to enforce the same. Think what a ranger of any certain distric might have accomplished with the al
behind him, the power to call out every behind him, the power to call out every to check a fire. But as I said, it need course, there would be expense, but dol-
lars saved are dollars earned, and the man called from his, perhaps, necessary public at large is very nearly in the same
category as the soldier who goes to the

But think it over, you farmers at least
Bhe who aspire to sit in legislative halls
Words may not come as readily to your but what does he know of the country's
needs? The muscles he has been trained

## The De Laval Milker



THE De Laval Milker is a tried and tested De Laval 1 product. It is a distinctly different type of machine, positive and uniform in action.

The De Laval is faster, more reliable, more sanitary than any other method of milking. Its action is, gentle and soothing from the start-old cows that are hard to milk, heifers and high strung purebreds are all milked successfully.

The De Laval Milker is made and sold by the same Company which for over forty years has earned an enviable reputation for service to users. When a man buys a De Laval product, the Company considers that its obligation to him has just started. Write to nearest De Laval office for Milker
Catalog, mentioning nuimber of cows milked

THE DE LAVAL COMPANY, Ltd


When you or your help milk by hand

## You Pay The Price

Money paid for the extra time etaken to milk cows by hand would,
BURRELL blk MILKER


## Write us to-day for further information and let us show you how easy it is to saive time and <br> let us show youi how easy it is to save time and <br> do cleaner milking with the B.L.K. Milker.

## D. Derbyshire Company, Limited Brockville, Ontario

# Rیvirutivini GIVES THE BEST RESULTS OBTAANABLE 

Obtain from Your Dealer or write to<br>THE PFNNTF COMPANY<br>WILLIAM RENNIE LIMITED<br>King and Market Streets, Toronto


to use are only those that produce sound and many a beneficial measure has been
drowned in its senseless volume drowned in its senseless volume.
$\begin{aligned} & \text { Que. C. BA }\end{aligned}$
Questions and Answers: Miscellaneous.

## Curing a Curb.

What is the treatment for a curb? Ans.-When the curb first appears
hand-rubbing is beneficial. Tinctine iodine may be applied, and if the sivellio does not yield to treatment, blister with 2 drams each of biniodide of mercury and cantharides mixed with 2 ounices If possible, Rive the horse two veek treatment. Kindly Bird Boxes. What makes simple bird-boxes quens 1. The Robin. 2. The Wren and Bluebird A. R. Ans.-1. For the robin no box at all is required, and the best thing you can provide is a shelf about 14 inchee squint, made in the form of a bracket and with a sloping roof over it. It should ibe set
at a fair height from the ground at a fair height from the ground, say six
feet or more, and should be located so that cats cannot climb to it
2. For full details concerning itic best types of boxes for the wren and bluebird see No. 3 in our series "Birds on the Farm" in Nature's Diary. A. B. K. Sweet Clover. 1. I seeded a field with sweet clover last year for pasture this year. There will be a lot of it go to seed. If break
it up this fall, will sweet clover appear it up this fall, will sweet clover appean
next year? I have been thinking of soring next year? I have been thinking of soring for hay another year. Do you think
this would be satisfactory? How much seed would you advise sowing? How early would you sow it?
A little ovar a two-horse-power engine. Antle over a year ago the comprestion trouble was in the rings and that the set on wat the engine would not although they did not seem to be too tight. Why will it not work with the new rings?
Ans.-1. Sweet clover is likely to 90 to seed when left in pasture and will give a very fair catch the next year. We broke up a pasture field and got a very good catch by sowing 8 los. of Weat intend pasturing this early in the seasoor and plowing for wheat. It should give a very satisfactory crop of hay, if you wish to leave it for such. The seed may be sown anytime in the spring. the . Judging fing the account given, If these fit snugly, a mere fraction overs :ze would interfere with the running of the engine.

English Pedigreed Stock. Milk and beef Shorthorns alike were sold for two days at Penrith, Cumber land, on February 19 and 20 last, and 442 head 127 . 4 , Argentine exporters were busy at the sale, A. J. porters were busy at the sale,
Marshall paying 2,050 guineas for $)$. Barnes' Inschfield Clipper King, and 1700 guineas for George Harrison's Gainford Nonsuch, the champion of the show. Mrs. Burnyeat, a Cumberland breeder, King, and 1,000 guineas for Moresby Royalist, each of which won a class in the sale. Dairy Shorthorn cows made up to 400 guineas for Rossall Blab. a sale of Mrs. Burnyeat herself hereresby near Whitehaven, Cumberland, and 49 animals aggregated $£ 27,21217 \mathrm{~s}$. or an average of $£ 5557 \mathrm{~s}$. 3 d . The 46 females, horich is a
averaged $\$ 575 \quad 12 \mathrm{~s}$. 1d. each, whin sale record for Scotch females in England. Some 87 Hereford bulls were sold a Hereford (England) for 617,257 each. A an average of by Major K. W. Miles, yearling, bred by Major K . C . . of the
realized 2,100 guineas to the bid South African exporters, Sidey \& Poels. This bull was champion of the show. Reserve champion was ars, and he was bought by P. \&G. Hughes, also for South America, for 1,000 guineas. The breed flourishes apace at home, and "domestic" trade in good bull


## Percherons and Belgians

## THE POPULAR BREEDS

 2,000 1 lb . Use good breeding stock now wad be ready to meet the demand which is sure to exist.
 We will sell on time to responsible parties.
 Inspostion Wolcomod.
G. R. Crouch, Vioa- Froaidont Lis Fayote Stook London, Canada The Company is omposed of J. Crooch. Preaden: G. R. Croach, Vloe Preddent and

Messrs. A. J. lickman \& Co Halse Grange, Brackley, England Exporters of all Breeds of Pedigree Live Stock
Send for an illustrated catalogue and see what we
can do for sou . Whether you want show or breeding stock, buy yourect from
England and save money. GLENGORE
Aberdeen-Angus
Do not mise the opportunity to secure some of the
conoioe males and demelese of wonderfuls imotrness
quality and strain type that are being offered by GEO. DAVIS \& SONS. R. R. 1, Erfin, Ontarlo Herd sirina son of Bick. Abbor, Champion Angus
bull of Canada. Write for particulars.

## Aberdeen - Angus

Meadowdale Farm Forest, Ontario
Alonzo Mathe H. Fraleigh
${ }_{\text {Manager }} \quad \stackrel{\text { Proprietor }}{\text { ALOWAY LODGE }}$
STOCK FARM
Angus, Southdowns, Collies bred heifers. Bulls 8 to 15 months.
Southdown ewes is lamb. ROBT. MCEWEN, R. 4, London, Ont Springfield Farm Angus



Aberdeen-Angus Cattle Suffolk Down Sheep or Clydesdale Horses James bowman
Elm Park : Gu ABERDEEN-ANGUS The preaent string of young bulls for sale includee
soleme cases yerd bult prospects, winners them-
selve
 G. C. CHANNON, Oakwood, Ontari P. O. and 'ohone. Railway connections:
Lindsay. C.P.R. and G.T.R. ABERDEEN-ANGUS CATTLE Jo. We offer good young stock for sale.
Jnderwod \& Son,
Graft on, ontari



CTH

 Sunny Side Herefords-Hrumd headed by
 For Sale

Questions and Answers.
Miscellaneoue
Docking Horses.
What is the proper time of year for $\begin{aligned} & \text { fo } \\ & \text { docking horses? }\end{aligned}$
Ans.-It may be done at any time but it is a practice not to be recommended The tail is docked at the required leng to prevent excessive bleeding a hot iro Lightning Rods.
When lightning rods are properly in stalled should the copper wires touch the rool or side of the building?
Ans. - They are not supposed to. The
wire is held from the building by means wire is held from the building by means double staples, or clasps which are nailed
to the building and hold the wire in place.

Sorghum Silage.
Is sorghum to be recommended for silage crop? How does it compare, a
regards yield and feeding value, with corn

Ans.-It is generally considered that a the sorghum contains more sugar tha
corn, the fermentation is greater and ther is a tendency for the silage to be sour Hhen the sorghum is sufficiently matured makes excellent silage, having a valu advisable to allow the sorghum crop to
get a touch of frost before ensiling. yield per acre compares favorably with

Mare Fails to Breed.
I have recently obtained a brood mare reason she has not caught for severa years past, though she has been bred
every season. Can you suggest anything either in the feed or care of the mare that would increase my chances of getting her
in foal this season? Ans.-When a mare of that age hasn': she will conceive now. Artificial im-
pregnation has been practiced and we believe quite satisfactory in such cases is little can be done in the way of feed. Have a qualified veterine way of feed her for disease or obstruction of the ovaries is normal artificial impregnation may

Pasturing Sweet Clover. when they are pasturing on it? How on what bind of had loeste to best? Where can the seed be obtained?

Ans.-We have prown sweet clover at
Weldwood Farm both for hay and pasture, and find it a very satisfactory pasture
crop. Cattle of all ages, horses, and pigs at it readily, and we have never had one
ase of bloat. Of course, for the first eck we do not turn the cattle on until or a short time it first. Our main
rouble with it as a hav croin has been
20 Bulls-SPRUCE LAWN-100 Females-Clydesdales, Shorthorns, Yorkshire: HowChated by Imported Golden Challenger 122384. A Rubyhill bred by Earl of Northbrofol by Acolif30-llb. Bull for Sale- Lord Lyons Hengerveld, his 5 nearest dams average 30.94 bs, of butteri

## 25 Scotch Shorthorns 25

## 15 Oxford Down Ewes

on Farm adjoining Eden Mille, 7 miles east of Guelph, Oont
TUESDAY, APRIL 6th, 1920
SALE OF STOCK 3 p.m.
SHORTHORNS-5 Bulls, 10 to $\mathbf{1 4}$ months old, Sire, Gloster
Champion $=87699=$
19 Females mostly in calf or calves at foot.
Families are Jealousys, Wimples, Tulips, Rustic Beauties,
Show Bull, Sittyton Favorite $=89610=$ Herd Sire, the noted
Morning trains met at Eden Mille. Tor
DR. A. E. RAMSEY, 'Phone Rockwood 30-5, Eden Mills, Ont.
Jas. McDonald, Auctioneer

## GRAND RIVER DUAL-PURPOSE SHORTHORIS

Herd headed by Prince Lavender 104449 -dam gave $16,596 \mathrm{lbs}$, milk as 4 -year
Present offering: 5 good young bulls. Some good bull calves coming on-dams now running in R.O.P.
hugh a. scott,
CALEDONLA, ONT.

a few heifers for sale; also several young bulls of breeding age, thick, level, mellow fellowind had hed
just right.
Newcastle. Herd of Shorthorns and Tamworthe for
 a good milking strain. A chotce Tot of Tamworths of both sex, and various ages, from roted priver
winning stock. Pair of registered Clydestale fillies rising 3. 3 .
Long distance 'Phone.

DUAL-PURPOSE SHORTHORNS
Herd headed by Dominator 106224, whose two nearest dams average 12,112 pounds
of milk in a year.
WELDWOOD FARM,
Farmer's Advocate,
Londoin, Oit.
 Telephone and telegraph by Ayr.
KYLE BROS., Drumbo, Ont,
Imported Scotch Shorthorns For Sale-three imported bulls, one yerinith sire, also a choice two-year-old Orange Blossom of our own breeding and three well bred bull aliva
about year old. Would consider exchanging an imported bull for Scotch females.

Irvin Scotch Shorthorns -Herd Sire, Marquis Supreme, by Gainford Mrontib viceable age and one younger, all sired by our herd sire and from Scotch-bred dams, Good indiviceable age and one younger, all sired by our herd sire an
viduals and the ${ }_{\text {_ best of of pedigrees. Also pricing a few females. }}$

WATT \& SON, Elora, Ontirio
Glengow Shorthorns and Clydesdales - Recently advertised bulls have all been Pidice Sultan $=100339=$, and anl bred to a Golden Drop bull ale eisosht neve=al. others somewhat younger. I real good yearling stallion, and mares all ages, in foal, will be priced right.
WM. SMITH, Columbua,
Shorthom Sher
well forward in calf to our Roan Lady-bred sire, Meadow Lawn Laird. We also have bulls redify



JACOB MOGK \& SON, R.R. 1, Tavistock, Ont. Innerkip 'Phone I oil n:

Stewart M.
Mardella D
8 choice young
All of good size,
by The Duke; d
butcer-at. He
binations of be
Atr priced to sel
THOMAS
THOMAS GR


## THE PREMIER LONG-DISTANCE OFFERING

at the national sale

bessie posch colanthus-Two Great Daughters of Prince Colanthus abberserk-COLANTHA mercena beulah

BESSIE POSCH COLANTHUS
R. O. P. at 2 years (just completed)
Milk. $8,120 \mathrm{lbs}$
Butter.
ter.................................. .731 lbs
record and the official figures as yet year not been returned from Ottawa, but the above is practically correct. She is prob ably one of the best individual long at sale time to a $34.06-\mathrm{lb}$. son of Avondale Pontiac Echo.

\section*{GARRIE SPOFFORD} Dam - ELVA SPOFFORD | R.O.M. at 3 years |
| :---: |
| Butter |
| - | Ther This two-year-old heifer is one of the biggest and finest the sale. She is due in be in to a 34.32-1b, son of Avondale Pontiac Echo

## IF YOU <br> BUY THESE YOU BUY THE BEST

## COLANTHA MERCENA BEULAH

R. O. P. at 2 years (just completed)
Milk...

Dam-Countess Mercena Beulah R.O.M.
Butter...
Mill 34.06 lis.
R.O.P.
Butter
Milk.

This heifer is due at sale time to...............200 21 lbs This heifer is due at sale time to a 34.32
lb. son of Avondale Pontiac Echo.

COUNTESS MERCENA BEUUAH
R.OM.
Butter....
Milk.

Milk.
R.O.P.
Butter
Milk....
$1,200 \mathrm{lbs}$.
$.27,210 \mathrm{lbs}$.


Questions and Answers. Miscellaneous.

Rabbit Skins: Is the skin of a tame rabbit of cott value?
Ans.-We do not know what rabh
or cat hides are selling for tainly have a value when the fur is 5 ,

Graining Woodwork.
How can woodwork be grained?
Ans.-As a rule, the woodwork gone over with a ground work for gwork which is usually a yellowish coat; fifer
the graining compound is put on before this is dry the graining is dom There are rollers and combs which may secured at most hardwares for doing th graining. Different designs may be st sured. Af

Removing Manure.
A sells his farm to B, giving posession
in March. Afterwards A sells manure ti in March. Afterwards A sells manure th
C. Can B stop C removing manure?

Ans.-A, after selling his farm to is not entitied to s. il or remove manur one else from removing same; and the purchaser of it, certainly, canniot cain a roadway or any other facilities for sud removal:

Sweet Clover.

1. Would it be advisable to sow sweet clover on a rye field? Some have tol
me it will not catch. me it will not catch. 2. P. B. F. writing in March 4 i
says he sows says he sows 1 pound of alsike per acn
with his timothy. What don with his timothy. What does
with the timothy seed in the alsike? with the timothy seed in the alsike? the manes of a well-matched Peritim team?
Ans.-1. Sweet clover should con. all right in the rye, provided the season is favorable.
2. It is possible that the alsike coine on and ripens before the timg
sufficiently matured for seed.
P. B. F. will explain this in an early P. B. F. Will explain this in an eary is difference. It is customary to see th manes trained to the right.

Treatment for Smut. 1. Are Sandy Fraser and A. Mo written by members of the editorial staf 2. How can grain be treateit formalin to guard against smutr 3. Would you consider it advisable phate to apply to grain and roots?
phate to apply to grain and roots W . O.W
Ans.-1. They are "r
2. There are several methods of applying formalin. The dry treatment fully described in the issue of March 18 , consists in using equal parts of and water. One pint of this mixiue sufficient for 25 bushels of grain a hand-spray, while another man tums them with a shovel.
3. It should do no harm mixing the ashes with the phosphate, and they should give results on both grain and

Pumping Water.
Would there be any more pressure in pumping water in bottom than up over in top tank $25^{\prime}$ high?
2. How far will a Rotary power pump draw water up? 3. How many h.-p. efigine required to run said pump 100 rev. per minute with capacity of 17 gallons per minuee 4. When pump has puluey or ope diameter what size pulley shouldinte? have to run pump 100 rev. per minum to give long service?
Ans.-1. No, slightly less. 15 to 20 feet.
3 . $1 / 3$ h. p. will be amply sufficient. 500 R. Ps . M. the size of pulley on engine should be $1 \beta-5$ inches. 5. A good deal depends on the ded and the character of the water pumpe casing
care it receives. If lobes inside caill care it receives. If orne the efficiency will become very low.

## "THE NATIONAL SALE," Everybody-Let's Go!

## abbit Skins.

a a tame rabbit or cotton
lue? Is cat't
o not know whik e selling for, but they ealue when the fur is $\begin{aligned} & \text { noe }\end{aligned}$ ing Woodwork. oodwork be grain rule, the woodwork a ground work for grainin
ly a yellowish ompound is, put on, dry the graining is dom ss and combs which is may t hardwares for doing the erent designs may be
his is dried oving Manure. rm to B , givine posesesi terwards $A$ sells mamire p C removing manure er selling his farm to B can stop him or ani removing same; ond the t, certainly, cannot thoim
weet Clover
be advisable to son suret ef firld? Some have toli atch. pound of alsike per am thy. What does he
ty seed in the alsike? the proper side to tr a well-matched Percher G. S. W. eet clover should atad
rye, provided the sasm ible that the alsike cone before the tir
ured for seed ured for seed. Posp
olain this in ari eariy t know that it males ant is customary to see o the right.
nent for Smut. dy Fraser and A. tmers, or are these aroman
bers of the editorial stal? grain. be treated vidh rd against smut? od ashes and acid nime od ashes and acii phe
to grain and roots ey are " W.O.M. ne word. several methods of an The dry freatuent in the issue of March 18 equal parts of formalin is e pint of this mixture is
5 bushels of grain and yed on the oats with a ile
ilel.
vel.
do
do no harm mixing the phosphate, and they
ults ping Water.
ere be any more pressure ter in bottom
top tank $25^{\prime}$ high? rill a Rotary power pump. y h.-p. effgine required mp io rev. per minute f 17 gallons per minite?
np has pulley of 8 per mize pulley should engine p 100 rev. per minute? consider this slightly less. ill be ame engine has spoed of
e size e size of pulley on engine. nches. al depends on the desigur
it the wats the water pumped as
If lobes inside casig worn the inside casiil

# Thursday and Friday, April 8 and 9, 1920 

TORONTO, ONTARIO

YOU MAY NOT WANT TO BUY-BUT YOU SHOULD BE THERE-BOTH DAYS

During the past week or ten days we have heard several small breeders remark that as they were in no position to pay big money for high-record cattle there was very little, if any, use of them attending the Na tional Sale. This may sound like good reasoning in most cases, but with the "National" it is quite the reverse. It is true that there are an exceptionally large number of $30-\mathrm{lb}$. cows listed, with a like number of long-distance cows, with yearly records equally as great, but at the same time there are more untested daughters of $30-\mathrm{lb}$. cows listed for this sale than has ever come forward in the combined sale-rings of any one year in the Dominion. These untested heifers-
daughters of $30-\mathrm{lb}$. cows, sired by $30-\mathrm{lb}$. bulls-are the sort that make safe buying, for the old or new breeder, at almost any price. In reviewing the pedigrees of the males or females, kindly remember that in every case the offerings were chosen-not consigned-and no sale in the history of the breed has offered a more ironclad guarantee. To enter they must be choice - they must be healthy-and the breeding good. To the young breeder, we say again, buy this breeding even though you take only half the number. If you want to keep abreast with the times you should come and see them sold-as a breeder you owe this much to yourself at least,

YOU CAN MEET ALL THE BREEDERS AT THIS SALE

## Fer cotalogues addreas <br> Canadian National Holstein Club <br> 28 Adelaide St. W., TORONTO, ONT.

GORDON S. GOODERHAM, President


MAY ECHO SYLVIA Seven-day milk records:
At 6 years........................ $1,0054.8 \mathrm{lbs}$
At 7 years.................
At 8 years..................... 852.2 lbs
At 10 years................... 94. Still at Work at Avondale

## No. 3.-Hillcrest Rauwerd Sadie. R. O. M.

 at junior 3 years (just completed).Butter 7 days.
Butter 30 days Milk 7 days

A model heifer, and will be bred betore sale to
Champion Echo Sylvia Pontiac.
POSITIVELY YOUR LAST CHANCE TO BUY UNTESTED DAUGHTERS OF CHAMPION ECHO SYLVIA PONTIAC

## May Echo Sylvia Blood at Toronto

Mr. Holstein Breeder:-Do you know that the Avondale consignment to the CANADIAN NATIONAL SALE brings forward more May Echo Sylvia blood than ever before sold in one sale-ring in America? In the following we are offering you the best from Avondale, at your own price. This will be your last chánce to buy untested daughters of our senior sire, CHAMPION ECHO SYLVIA PONTIAC, the great son of MAY ECHO SYLVIA.

## The Offering:

## AVONDALE FARMS <br> (H. LYNN, Superintendent) <br> Brockville, Ontario

## Four out of Ten are Daughters of Thirty-Pound Cows

It is hardly likely that four out of every ten females selling in the "National" are daughters of $30-\mathrm{lb}$. cows, but this is exactly how our consignment lines up for this great two-day-sale. Following is a partial summary of the offering-can you beat it?

MANOR SEGIS MAYFLOWER A two-year-old daughter of Manor
P. H. Flower 30.59 lb . This heifer is well forward in calf to a $32.26-\mathrm{lb}$ son of King Echo Sylvia Johanna, (75\% the same blood as Carnatio
King Sylvia the $\$ 106,000$ bull).
K. S. A. C. DAISY ORMSBY

A two-year-old daughter of King Segis Alcartra Calamity and Daisy Ormsby Lass 31.47 lb
K. S. A. C

EVANGELINE DE KOL
A two-year-old daughter of King Segis Alcartra Calamity and
Witzyde Evangeline De Kol Witzyde
31.00 lb .

## OTHER FEATURES

Three daughters of May Echo Sylvia's daughter's son, May Sylvia Pontiac
Cornucopia. Two of these are twenty-month heifers and one, just past the Cornucopia. Two of these are twenty-month heifers and one, just past the
five petje Korndyke Queen, an eight-year-old 27.46-1b. cow, (record made at

You will appreciate this offering when you see it at

## THE NATIONAL, ON APRIL 8-9

W. F. ELLIOTT

## Queen 2nd 34.68 lb .

 Roycroft Echo Pietje, year-old daughter of Het Loo Queen Pietje (mentioned above) and sired by a son of Avondale Pontiac Echo. Rag Apple Echo Sylvius, a two-year-old son of Champion Echo SylviaPontiac, and from a $24.09-\mathrm{lb}$. daughter of Rag Apple Korndylee 8th.

UNIONVILLE, ONT

## A Special Attraction

At the Great National Holstein Sale in Toronto April 8th and 9th, my consignment of three richly bred cows will be a special attraction.

No. 1. My foundation cow, Patti De Kol Posch, 32.86 lbs . butter, 516 lbs . milk in seven days. She has two tested daughters-Queen Bos De Kol, 35.50 lbs . butter and 520 lbs . milk in 7 days at 4 years-Patti Bell De Kol, 27.84 lbs. butter in 7 days at 3 years. This worthy matron is a grandam of Princess Lyons De Kol, 23.13 lbs. butter, 418 bs. milk in 7 days at 2 years-a perfect cow nicely marked.
No. 2. Flora De Kol Korndyke has four records one 30.11 lbs . butter in 7 days as a 4 -year-old She is a heavy-set cow, perfect in every way. No. 3 is Rose Echo Segis, a beautiful show cow with a record at 2 years, 3 days of age 26.47 lbs butter, 431 lbs . milk in 7 days; best day's milk, 4 lbs . She is due to freshen shortly after the sale. Bred to Champion Echo Sylvia Pontiac son of May Echo Sylvia. What will this calf be worth, having a double cross of May Echo blood, as May Echo is her great-grandam
No one will be making a mistake in purchasing any of these cows. For further particulars write
Carman Baker, ㄹ,Re. No. Z Brighton, Ontario

## Raymondale Holstein-Friesians




RAYMONDALE FARM Vatd
RAYMONDA
ELDERSLIE HOLST

## archife muir.

HOLSTEIN-FRIESIANS


Gossip.
The Hanmer Dispersal Mr. J. B. Hanmer's announcement in the dispersion of his Glen Otter herd of producing Holsteins, came, no doubt, as a surprise to many. For the past year o success after another in the way of making official records with individual members being the $51-1 \mathrm{~b}$., the world's record made on Rolo Mercena De Kol, which sold in tional Sale at Philadelphia to the Naover $\$ 27,000$. A three-year-old daughter of this cow is perhaps the outstandin feature of Mr. Hanmer's sale, although there are plenty of others that would add three-year-old daughter referred to is Topsy Mercena Posch, a big, strong, wellproportioned heifer, and due to freshen May 1st, to Prince Mercena Echo. This $27,000-\mathrm{lb}$. yearly record cow with 1,200 lbs. of butter for the year, and also a
7 -day record of 34.06 lbs. of butter, and 706.8 lbs . of milk. There is also a sister seven-year-old cow, Canary Flora De of 21.62 lbs . of butter and 550 lbs . milk in 7 days, and she also has two daughters show cow with a $27.52 \mathrm{-1b}$. butter record ear-old heifer, which combines the is a Fayne Johanna, the world's Kol and Segis b. cows. Next in order it will probably Ladoga Idaline Mercena $\$ 3,000$ cow, Mr. Hanmer at Philadelphia last June. ate in May to Prince Mercena Echo, the down the list, will be found a score more individuals, all of which should hold equal interest. Belle Abbekerk 2nd, irst at the Canadian National,' Toront as a yearling; third at the National Dairy
Show at Chicago as a two-year-old and sas awarded first honors as the highest
scoring two-year-old in the Dairy Test at the Ontario Provincial Winter Fair,
Guelph, 1919. The vear-old dauther (iuelph, 1919. The year-old daughter of
this heifer, sired by May Echo Sylvia's daughter's son, May Sylvia Pontiac
Cornucopia, is also among the list as well as her 1920 male calf, which is sired
by Count Paul C. Posch, a 34 -lh,-bred

SUSIE SEGIS WALKER A three-year-old daughter of Pon-
tiac Sir Korndyke Wayne and Lelia tiac Sir Korndyke Wayne and Lelis Segis Walker 30.00 lb ., due April 23
to a $32.26-\mathrm{lb}$. son of King Echo Sylvia Johanna, ( $75 \%$ of the same Sylvia Johanna, ( $75 \%$ the same
blood as Carnation King Sylvia the
$\$ 106,000$ bull).


## Easy on! Easy off! <br>  <br> Dreadnought <br> Tire Chains are used by the most experienced motorists, hence their enviable reputation. <br> Because of their growing popularity, the name and features of DREADNAUGHT CHAINS are now being imitated - not their quality and servicability. <br> The "Just as Good" argument will not do for the motorist who knows. Therefore ask for Dreadnaught Chains. <br> Made in Canada <br> McKinnon-Columbus Chain Limited <br> St. Catharines <br> Ontario



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 Locust Hill, r. p. R. H. C. HAMMIL, MARKHAM, ONTARIO
 own herd sire. Killoch Gold Flake dimp.). 51225, and from imported dams that present silitired by my
Call and see the kind we.breed. Also pricing a few young cows safe in calf to herd sire. in the herd.


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all from hresent

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 JNO. PRINGLE, Prop. cows and show Aour work cows and heiferes. Prices right. We work our show For Sale--Edgeley Golden Jolly, son of ouen 2nd-1 1 , prize in 2 .-year-old in tze C.P.R.. Concord G.T.R.) JAS. BAGG \& SONS, EDGELEY, ont.
DON HERD OF PRODUCING JERSEYS

Hackney Show sponsors will uee the eaving his futur -legged brigade -legged brigade alon mpact kind of horsis ns of the 1920 show Society, held at 1 dir M. the Prince of Walt oner stallion, Findm he Challenge Cup for ikely to get army tony
championship for the championship for ti
on shown in hand of rope, was C.F. K cess, won of Mation is horse was om he won the 1018 . Hinrichsents
Proctor, and only our was his career, the of diff Show. The champion shing Dare was Sir Le daughter of Antonitise te Sir Walter Gilbey. enry Gilding's Flash Cas te Sir W. Gilbey in nship three cups
James Puthan James Putnams Po emost extrovagant actic we have in Britain. I ch has since been क्रोito ner. Again dif
e prove himself pony we have, both as as a sire. The prodio
on by the offspring of Ho on by the offispring of fl
Adbolton Kingmal Altiox
ns and Answers: -
buy a parrot? J.G et them know your mand mall advertisement in oi

## or Partnership.

rased a tractor in partioc eighbor. How showher es be divided for the work dore much per day; and divi
expenses are met, divi

## ling

lling Cattle.
ranmer and $B$ is a

Is a heifer to $B$, thind every way, When bute d the animal to a loc went to the Tomato too lose it? died from some calkom ing delivered to the stim 1 be the loser? 11 it dio ny cubic yards of gened build a silo 12 bd 35 feet | e? |
| :--- |
| en would | ser.

it wersider that
ed it were condemned atte
ed, there is an insurual ets such cases. Tild rate of so muds.
ough the yards. nimal died before being $\begin{aligned} & \text { nd be } \\ & \text { Id be the }\end{aligned}$ the purchaser would be 35 -foot silo shoutd be 0 yards of gravel and 30


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Monarch Hog Feed produces a firm, sound bacon of delicious eating quality. More lean and less fat. Just right to bring the highest price on the discriminating British market. Feed from your dealer Wanch Hog sults carefully. Note how much earlier the pigs reach maturity and the better quality of the animais. If your dealer is o
Hog Feed write us.
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Limited, Toronto, Ont. eaf Milling Coas Limited, Toro

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piss once they are weaned. The object is to fatten them The object is to fatten them
quickly and yet maintain perquickly and y
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perfect substitute for the perfect, substitute for the
mother's milk. Pigs thrive on it and grow rapidly, thus bringing quick profit to the farmer.
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Browilin
Ontarlo
Shropshire Yearling Ewes $\begin{aligned} & \text { bred to } \\ & 84(\text { impo. } \\ & \text { Bibby's }\end{aligned}$ eve lambe sired by him. Two Shorthorn bulls
Two Clydesdal sime

## YORKSHIRES

WELDWOOD FARM Parmer's Advocate, London, Ontari - Pig Type Chester Whites ${ }^{- \text {We celened up a }}$ to Retibititons, 11919. Now oftering p pigs from out
sobili, bows, and JOHN ANNESSER, Tilbury, Ont.

Questions and Answers. Miscellaneous.

What do Cordwood number of cu if instand to be the number of cu. ft. in a cord of wood,
According to table there should bé 128 cu. ft. However, wood is being sold it seems at $50 \mathrm{cu} . \mathrm{ft}$. or thereabouts to the cord. For instance a pile is 4 high, 8 ft . long and cut in $18^{\prime \prime}$ lengths,
would you say that constituted a legal cord? and if the matter were taken to law what would the judgment in your opinion be? I. A. H. Ans.-Legally, 128 cubic feet constitutes
a cord, but wood is very often sold in a cord, but wood is very often sold in
different lengths, for instance, it may be a cord of 18 -inch wood. This would be a pile 8 feet long, 4 feet high and 18 inches deep. Then you might have a cord of 22 -inch wood, which would be a
pile $४$ by 4 Teet by 22 inches. Of course, pile 8 by 4 feet by 22 inches. Of course,
the price of a cord of this length of wood would be considerably less than a cord of cord-wood.

Sharefarming-Vicious Sow. A partner and I rent a farm which is worked solely by a hired man and his
wife. My partner is fully occupied with wife. My partrer is fuly occupied with
business in the city, and suggests that I business in the city, and suggests that
relineuish my oceupation, which returns me $\$ 35$ a week in the city, and devote my whole time and energy to the parits should I be entitled to claim?
2. What is the best way of dealing
with a sow that at time of farrowing is
vicious? 3. I am advised to join a swine breed
ers' $\begin{aligned} & \text { society. } \\ & \text { Kindly explain the justi }\end{aligned}$ ers society. Kindly explain the yusuld
fication of such societies, and how I would
be benefited were I to become a member be benefted were I to become a member.
Ans.-1. It depends considerably on
the amount of work which you would do and upon the class of farming engaged in. You might charge so much per month
for your work and then share the profits and losses equally with your partner, or you might take a certain percentage of the profits. Where you work conthe investment, you should be entitled to eighty per cent. of the profits, and your partner twenty
know how it could be arranged if there were losses; therefore; we recommend the
 several days before farrowing and feed
lightly dan lavative ration composed quite largely of roots and bran. Fever and inflammation are frequently the
cause of viciousness. purpose of promoting the interests of some particular brect orems peculiar to their breed. By becoming a member
of the Dominion Swine Breeders' Association you are able to record your
pure-bred stock for half what it costs a pure-bred sto
non-member

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## BERKSHIRES <br> Registered sows, 7 months old <br> right for breeding. <br> MAIN AND COLLYER <br> P.O. Box 275, - London, Ontario <br>     astifaction to curstomers. Prices on request. HOOD FARM, INC., Lowell, Mass.

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orders for young pigs (both sexes)
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Berkshires ${ }_{\text {the }}^{\text {the the great Smithield }}$ Show, London, England, in December, the Berkshires won clases of the Carass Competitions for pigs of all breedid by winning ALL the four prize in the four
clases; all sixteen pigs being pure-bred except one, We have over eighty head of aplendid stockr. Come and see them, or send for our breeding list.
J. B. PEARSON, Manager, Credit Cange Farm, Meadowvale, Ont.

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a half less powder when you use Egg-O. When powder wiren you use Egg-O.
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EARN and SAVE

## Our School Department.

How to make a Garden lesson plan.
Aim:-
interest the children gardening.
Materials:-A vacant lot, or a part of the school-grounds, or a plot at home;
rakes, hoes, measuring stick, line, seeds,
etc. Method:-1. Of what use are seeds? Method:-1. Of what use are seeds? seed catalogues in spring? Why do we want seeds? What can we do with them? What does nearly every person plan to do out-of-doors in spring? How can a
garden be prepared, planted, and cared garden be prepared, planter
for? Discuss the making of the garden. 2. Discuss the making of the garden.
If possible, actually do the work in a If possible, actually do the work in a at home. Preparation of Soil.-What
First: should be done to the lot first? Should it be plowed in autumn or in spring?
Of what use is the plowing? When should Of what use is the plowing? When should
manure be applied? Why should the manure be applied? of manure? Discuss the digging of the plot with a digging. fork.
Second: Planning of the garden.Measure and make a plan of the garden.
Divide it into lots or plots with paths Divide it into lots or plots with paths
between. Make the plots longer than between. Make the plots longer than
wide. Why is it better not to have the plots too wide? In what direction should the plots run? Why is it better to have them run north and south? Mark the rows in the plots.
Third: What to Plant.-Decide as to what to plant, vegetables or flowers, or
both, and what kind of each. Keep in both, and what kind of each. Keep in mind what plants would look well side
by side, and whether one kind would shade another if close Consider also the use of each vegetable.
Fourth: How to Plant.-Discuss the planting of the seeds. Should they be planted in rows or hills, or scattered? How deep should they be in the ground? after planting? How could it be pressed? after planting? How could it be pressed?
Fifth: Care of the Garden.-Discuss the care of the garden after planting. When should it be watered? How often? How much water? How can weeds be kept down? How much care should the garden receive during the vacation? in good well-prepared soil with the making of one where there is sod only. Which should give a better garden? Why? 4. In planning a garden what are the chief points to be kept in mind? What
work is required in a garden: (1) in the work is required in a garden: (1) in the making and (2) in the care? Why should 5 At have a garden?
garden and care for it home make a gardens and make comparisons.
6. Draw a plan of your garden showing
the rows or beds, and how it is planted the rows or beds, and how it is planted. The above lesson plan is from Book 2 Hamilton, Macdonald College.

## A Springtime Game

$\qquad$
Whatever you do, do it well even if it you play, and work hard when you work Divide into two teams and line up the teams facing each other in two lines with teams take up their positions in the middle of the plaving space each with their the "heads" and the other "tails." A leader falls "heads"" he calls out "heads," if it falls "tails," he calls out "tails." The for its iten, which may be a wall, fence or centre of the playing space. The other
ide meantime trien cam calime tries to tag as many of the (1) poos dow. Fieryone so tagged has (i) phome the the ne thaged has

Some Illusions Regarding Buds and Twigs
by G. w. hofferd, m. i. mong pupils that a general opinin among pupils that the bud seates in woolly coverings, such as found in the scales, of the horse-chestruit, are keep the delicate bud warm. A reflection on winter conditions would smen convince one of how entirely inadenat bud scales, as a covering, are to loen the cold of winter weather $H=O$. you like to stay out all winter expoax "zero weather" with sugh a sar protection as scales afford? The
they could do is perhaps to hey could do is perhaps to protect th
bud a little from too rapid in temperature. The real function protect the young delicate shoot fir losing too much water, and from medi cal injury. The air of winter is num dryer than that of spring and buin selves against this cold, dry protect ${ }^{\text {and }}$ which practically places the ollat desert conditions. At the same timne th cold soil almost entirely retards in absorption, and also water-raiding form are at a minimum. Thus, bud saik protect against evaporation period when the plant cannot aford lose moisture from its dormant growis
hoots. Nature prevents the shoots. Nature prevents the diy
out of twigs by bud scales and excretion of resin between the o


A Beauty Spot:
Another general belief th that the "winter killing". of trees arid sirath is due to freezing. Cold in freezing however, is only indirectly the cause death. "The real cause is the abstri of water from the cell by the ice crystal forming in the intercellar spaces, thes the water content of the cell list extracted from the cell, and consequently its moisture is reduced below the dangt point for that cell, and death ed Investigation has shown that, on fire ice never forms within a cell, but rather the space between celle, and or cell wall does not rupture. Hence freezingis, in reality a drying process; and dryness is the re cause of death in winter-killing not cold. Have you ever noticed hion dry twigs are during the winter mo compared with that of other seasonsi Another error is common regardise grow in height only by the growth of net grow in height only by which start outh each growing season from the termimetly and lateral winter buds. Consequertion branches once formed on a tree renum the same distance apart and aferyed distance from the ground the trees will those long limbless trunks? This is ah illusion in forest trees due to the dyint away of the lower branches, and not any any elongation of the length of anin sea son's growth. The growth goes oniter diameter, but not in length. con the a tree in the forest with one of the it is
species in the open field wher bathed in a flood of light. The difiecent is due to the presence of abuncans shated light in the open field, and the shasest.


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