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*Agriculture, Stock,DAíry, Poultry, Horticulture,Veterinary, Home Circle.w
Vol. LIII
LONDON, ONTARIO, MAY 2, 1918.

## While the New Milling Regulations Require a Higher Grinding of Wheat, <br> We Are Producing in <br> <br> PURITY FLLOUR

 <br> <br> PURITY FLLOUR}(Government Standard)
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IF you are willing to assist in the work The Farmer's Advocate is doing, by sending us the name of a new subscriber, with $\$ 1.50$, the price of the paper for one year; as a return for your interest and help. we will send you a Union Jack.

## The Twenty-fourth of May is Near

For that day and other holidays and patriotic occasions, a flag the size of the one we will send you, about twenty-seven by thirty-nine inches, would be just the thing to hang in front of your verandah.

We have a number of these flags, but our supply is being rapidly reduced, and when it runs out we will not be able to fill any more requests.

Don't be too late to get one, but cut out the coupon at the bottom and send it to us without delay.

THE FARMER'S ADVOGATE \& HOME MAGAZINE, LONDON, ONT. Gentlemen,-Enclosed is the name of a new subscriber to The Advocate the Union Jack as advertised.

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

LIII.

## EDITORIAL.

## The hardest workers in Canada are on the land

Canada has never been found wanting when duty called.

Early seeding is a favorable start toward a satisfac tory crop.
No real man or class of real men will object to further sacrifices for democracy.

## Grow as much food as possible this year

is worth every possible sacrifice.
It is not too late yet to put in a garden. Every farm should have garden vegetables.

This year is bringing the crisis of the war. A distribution of man-power must be made.

Patience and steadfastness have stood the British nation in good stead in many a time of trial.

Plan, if possible, to grow the bulk of the feed neces sary for the live stock this year on the home farm.

A little larger acreage of mangels and turnips might be a reasonable safeguard against a corn failure this year.

Agriculture is the big interest of Canada, but it has so lacked organization in the past as to be a more or less helpless giant.

Good reading, national in character, develops national thought and a oneness of public opinion over the entire country

More rain than we have been getting early in the season will be necessary if the stock are to get more grass than usual this year.

We admire the man who loathes killing, but we loathe the man who would stand by and see the helpless slain by brutal war lords and would not lift a hand to protest.

It is alout time this country was properly organized on a war basis. All men should be doung that which is in the best interests of the nation. National service may yet be a reality.

Canada, since the war began, has risen from ninth place among the wheat-producing countries of the world to third in the list. Producers are doing well but more must be accomplished

The Kaiser's family is said to be the safest family in Germany. It will not always be so. Some day the mighty one and his six sons will fall hard, and
higher and "safer" they get the harder they'll fall.

If Ciermany is determined to force a decision this ear the men and means must be found to make that deci-ion an Allied victory. If the decision does not 1919.

The farmer's biggest problem is to overcome his an extraeffort whes, and he must be given credit field crops in this country last year was 5,095 acres per thousand of total population, as compared with 4,794 acres per housand in 1910, and 3,713 acres per thousand in 1900 . And 191 S will see a bigger acreage still.

## LONDON, ONTARIO, MAY 2, 1918.

The Public Desires a National Press.
Last year the United States Congress passed a War Revenue Bill, the provisions of which included the estab lishment of a zone system in regard to the transmission of periodicals through the mails which, when it become law July 1 next, will increase enormously the postage charges which publishers are called upon to bear. The zone system operates with a heavily advancing rate as the distance from the place of publication increases, and so works to the disadvantage of the publishers of papers of a national character. The Act in the United States makes a big increase in the rates for the first year with further almost, if not quite, prohibitive increases for the second and third years after it comes in force. The first zone is up to 300 miles, the second zone from 300 to 600 miles, the third from 600 to 1,000 miles the fourth from 1,000 to 1,400 miles, the fifth from 1,400 to 1,800 miles, and the sixth over 1,800 miles, and the rates for the second zone are twice as much as for the first, for the third three times as much, and so on, the postage to the sixth zone being six times as much as to places in the first zone. It is claimed by publisher of national papers and magazines in the big Republic that the new rates mean an increase in postage charges of from 50 to 900 per cent., and already there is a notice able and increasing number of suspensions and amalgamations of publications.

On the face of it there does seem to be a reason why higher rate should be paid for carrying printed mat er a long distance than for taking it a short distance but when we look into the matter closely we find any such arrangement decidedly unjust and discriminatory. It is placing a tax on intelligence and education. It will have a tendency to break down rather than build up a national press and will certainly encourage a proincial, local, sectional and separate-thought press in its stead. No country desires sectional thinking; all should work for national and rational thinking. Such an Act is not only harmful to publishers but also to business and the people generally. Trade, religious and farm papers together with the biggest and best national magazines will be most affected by such an Act. Those organs most independent of parties and diques-those whose influence for good is immense will be called upon to carry the heaviest burdens. It is very uestionable whether a government in a producing country can afford to strangle good periodicals which undoubtedly are factors in the production from the lons in manurturing power of the fact rais or for chatious organiza he raising of money for chisseminating religious knowl tion work, as well as and the building up of higher life in the homes. dge and the building up of higher infe in the homes money-making proposition. The Post Office Depart ment in any country should plan to be self-sustaining but raising war revenue by such an increase in rate on periodical literature can scarcely be upheld. Why hould, for instance, John Smith be called upon to pay several times as much for a Toronto publication be cause he lives in Vancouver as he would have to pay if he lived in Hamilton? There is no reason. Why should those people on the edges of civilization in new districts be deprived of the best national reading bemese making the price of the reading Farm women and children far off from pronitres of publication should not be descriminated he centres of publicald dwellers in any town or city against. Neither subli hed be deprived of getting a national newspaper publi hed at some distant place. Such a policy is narrow and unjust. Surely national intelligence and national ducation count for more than the few extra paltry dollars which a zone system of carrying periodicals by mail will ever collect. All papers are willing to pay their income and other war taxes, but such a direct tax as this working as it does directly against the formation of a national public opinion is, as President Wilson said. a "Mischievous blunder.'

Suggestions of a similar law have been heard in Canada, but so far no such foolish and uncalled-for action hs been taken. Canadian publishers have a fair rate, which applies not only to all Canada but to all parts of the British Empire. Outside of the twentymile free zone, which is a foolish arrangement, no matter where the reader resides in the Empire prices for Canare ther impire prices for Canadian publications in so far as postage is concerned remain same And so it would be good polim times think, however, that it would be good policy to deny the use of the mails to periodicals which use fake methods of putting on subscribers' names, and which do not insist upon getting a stated subscription price, as revealed by their books.

## The Relation of Live Stock to Crops.

During the last two or three seasons, which on the whole have not been favorable ones for agriculture in Ontario, one fact has been driven home. Wherever live stock has for years been fostered on the farm the soil has been less subject to adverse conditions and crops have done well. Recently we had occasion to comment on the thrifty appearance of a pure-bred herd, and the owner remarked: "We have plenty of feed. We have always fed a lot of cattle here and the soil is very fertile. Last year the crops did so well they went down." In a dry season or a wet one the soil with plenty of humus incorporated with it does not parch with the heat or become water-logged with the excessive moisture; it is more or less immune to adversity and so is the farmer who relies upon it for the yields. Humus and available plant food are the results rather than the cause of good farming, and behind it all are the herds and flocks which consume the products of the soil and return the residue in the proper condition to form a partnership with the acres that will, in turn, yield still more. Live stock and good farming go together, and this the past few seasons have abundantly

## Why Pure-breds Are Carried at Half Rate.

Breeders of pure-bred live stock are aware that the Canadian railroads carry pedigreed animals, in less than arload lots, at half the tariff rate. There is a limit to the distance, of course, but the policy is to develop the live-stock indastry of the Dominion to such an extent that the revenue of transportation companies may be increased through a larger volume of commercial stocks to be moved, and a more prosperous agriculture in general. Good live stock means good farming, bigger crops, and more tonnage for the railroads. The late J. J. Hill was aware of the extent to which a railroad must depend on agriculture in the territory through which it runs, and the development of the agricultural resources, along live-stock lines, of the country invaded by his locomotives was a part of the wonderful scheme which brought him fame as a builder and operator of roads. Since September, 1912, the Union-Castle Company's liners have been carrying pedigreed animals free of charge from Britain to South Africa. Up to January 1, 1918, this Company transported 2,770 cattle, 333 horses, 513 sheep, and 212 hogs, the estimated value of which totalled 5203312 Britain now imports from hat colony around 22,000 to ber and which goes largely to he fel he liny 1010, the which goes lar 7,028 the 1915 in more the cotal was only 7,928 tons, and in 1015 no more than 2,324 tons. The exports of meat from South Africa are rapidly increasing, and the Union-Castle Company sill not have occasion to regret their free freight policy.

There is a feeling amongst breeders and shippers that, in some cases, the minimum weight upon which the railway agents are instructed to base charges is too high. This should be adjusted equitably, for the history of railroading furnishes ample evidence that pure-bred

## The Farmer's Advocate

 AND HOME MAGAZINE.the leading agricultural journal in the

## Published weekly by

THE WILLIAM WELD COMPANY (Limited):

JOHN WELD, Manager

Agents for "The Farmer's Advocate and Home Magaxine"

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live stock is a wonderful stimulus to agricultural pro duction and rural development. In view of these facts
nothing should be allowed to impede the wide distribution of foundation stock which means so much to a young country like Canada

## Take Good Care of the Wool Clip

 nuch needed, either to feed the population at home or clothe and sustain those near the seat of war, every effort should be made to conserve. Applied to wool this means that while still on the sheep it should be kep clean and free from foreign matter. Shearing should be done on a clean surface and the clip should be kep in a dry place until marketed. Tying with binder twine strings made of wool results in a loss; use paper twine Sates Government has asked the wool merchants of the country to suspend private trading and to offer al he wool and tops owned, whether on spot or to arrive, to the Federal Government. It has also been reported that prior to this order the manufacturers were requested of military fabrics for Government use. The actitur of the United States Government are a good indicator of conditions on this continent in respect to wool, and these suggest that every effort should be made to car Allies may clothe our armies in a satisfactory manner.Those city women who suggest that women from our cities and towns should replace the farm wome the field and help the men, are more enthusiastic than sensible, or more selfish than generous.

## The Rod-of-Iron Rule

 Y SANDY FRASERI wis oot at church last Sunday and oor meeniste gave us an unco'guid sermon that I'm thinkin' to repea for yer benefit, if ye'll tak' the time to be listenin' to He took for his text that verse where it says: shall rule them with a rod of iron." "In the first place," says he, "I want to tell ye that according tae the note in the margin the correct reading $o$ ' that passage is "He shall shepherd them with a rod of iron," and it makes quite a difference in the meaning ye are likely to tak' oot o' it, too. It's one thing to be ruled and anither thing to be treated in the way a shepherd generally treats his flocks. And when a shepherd uses a "roo $o$ ' iron," or a rod o' any kind, it is usually wi' the in tention o' benefiting those that it is used on. It's juist here that the difference comes in between the God that the nations of auld used to believe in and the God that the maist $o^{\prime}$ the civilized warld believes in at the present day. The auld-fashioned Ruler o' the Universe was a kind $o^{\prime}$ an over-grown man that was likely tae strike ony o' his earthly children dead at ony minute if they werena humble enough an forgot to pray an praise a
the proper times. They sized God up according tae the standard they had for measuring themselves, an they took it for granted that He wad do, in ony particu lar case, juist what they wad do themselves. But a the present day the majority o' humanity hae a different
idea o' 'the Power that gave us being," and we look on idea o' "the Power that gave us being," and we look on
God as One who is more interested in oor welfare than we are oorselves, and who is continually trying to get us on the right track an' to keep us there in spite o oor persistence in tryin' tae get intae the ditch again So this is why we are inclined tae think that the correct translation o" oor text is "He shall shepherd them" in stead $o$ ' "He shall rule them." It sounds as though we
were being led instead o' being driven that were being led instead o being driven, that we were being guided alang the right way instead o' being force
into it against oor will. It looks as though it wis only way to develop character an' build up a real man If we persist in daein' what we ken is wrang we'll be allowed to do it, and then after we've experienced the consequences and got intae a mair reasonable state o
mind we'll be shown some way or ither to mind we'll be shown some way or ither to get back on
solid ground again. We're unco' ignorant an' inclined solid ground again. We're unco' ignorant an' inclined
to follow oor feelings rather than what conscience we hae, an' there's na doot that it must tak' infinite pa tience tae deal wi' us; but as luck has it we're dealing wi' a Power that has juist that quality, which is the
only reason, I'm thinkin, that we are gettin' a chance to go on an' finish the job o' makin' men oot o' oorselves if we can't apply it to the conditions that we ken exist in the warld to-day. This war is on oor minds no no' been goin' ahead in a way calculated tae encourage the friends o' liberty an' humanity. Noo here is juist where, maybe, oor text is going tae fit in. It says:
"He shall shepherd them with a rod of iron," and wha is to say that that is no' the experience that the nations
$o^{\prime}$ the Allies are undergoing on the fields $0^{\prime}$ France? This war is the natural result o' wrong thinking on the part o' man but there is that higher Power, that we were talkin' aboot, to be taken intae account in dealing
wi' the outcome o' it all. We all ken that the interests o' the warld will be best served by the final victory o the armies o' freedom an' democracy. It will mean
world-progress, a lang step in the right direction, while, world-progress, a lang step in the right direction, while, naething but years o' struggle by future generations
would overcome. But since we ken that we hae Right on oor side there's no sort o' need o' contractin' a fit we don't get discouraged an' quit. We hae Russia for ony better warning. A peace that comes before its time is naething short o' spiritual death for the nation
And noo as to these reverses an' losses we hae bee enduring off and on throughout the war, an' mair espe
cially in the last few weeks on the Western front. Why cially in the last few weeks on the Western front. Why
are these things coming to us if we are on the side yet as a nation because, although we fight for right What was France before the war? Naething but nation o pleasure-seekers that made this warld every
thing and took no account $o^{\prime}$ ony possible future istence or gave no thought to the real purpose of living.
Was England ony better? Vera little, what wi' the rumation o one class by too much money an' the degrada-
tion $o^{\prime}$ the ithers by too little. For all her braggin' auld England had a good way to travel before she think that we hae ony right to say that, takin', it all in muckle 'shepherdin' wi' a rod oist as , weel wi'oot sae it. In fact, I feel sur that there is juist one thing that
will help mankind frae going tae the bad entirely and
that is discipline. We need it in this coud that is discipline. We need it in this country as well as

parentic, we are no' under the necessity o' takin' oor me as heavy doses as they are. 'Though they " And the proof that this medicine is having its her to-day tell us that a spiritual rebirth wha know with the heroism o' her soldiers and that the things

France, in this fourth year o' her fight for fresd An' the same is true o' England, an' America, an' Canad maybe, but we see the change juist the samt degrees maybe, but we see the change juist the same. travagance an laziness hae pretty nearly got t
knock-out blows an' intemperance is in a fair come by the same fate. There's no occasion for couragement. All we want is a little mair insight things. It will help us to see a purpose in the iron' an' maybe gie us the courage to endure. I Iken it's easy to talk but when the chance comes to throw What little light we hae on the road that is dark enor
for sae mony, I'm thinkin' we shouldna pass it for sae mony, ' 'm thinkin' we shouldna pass it we may be"beaten in this war after $a^{\prime}$. To thesit juist want to say that it isn't possible. We hae the right on oor side, an' while we're willin' tae wark an' tae fight, how can we lose?"

## Nature's Diary



I have an enquiry from E. B., Simcoe, Ont., in regard to the life-history, habits, etc., of the Common Sucker

The Common Sucker belongs to the family Catostomidae, and one of the main peculiarities of this family is the form of the mouth, which is usually greatly protractile and has fleshy lips. It is this pecultar form of the mouth which gives the common name, "Sucker" he species of this family
This family is a large one, embracing some fifteen genera and more than seventy species, two of whic occur in Asia, while the others are inhabitants of the resh waters of North America. The family includes not only the species commonly known as Suckers, but also those known as Mullets, Redhorses, Buffaloes and Quill-backs
As food fishes the species of this family do not hold high rank, as their flesh while it is of good flavor is very full of bundles of fine fagot-bones. None of the species are game-fishes, as they rarely take a hook xcept on a set-line
In Ontario we have nine species belonging to this amily, the commonest being the Common or White Sucker, the Northern or Long-nosed Sucker and the Common Mullet ot Redhorse.
The range of the Common Sucker is from Ouebec and Massachussets westward to Montana and Colorado and southward to Missouri and Georgia. It sometime attains a weight of from three to four pounds, though pounds. It spawns early in the spring soan for the ce goes out, forcing its way up the flooded streame ani hrough the swiftest rapids to reach the spawning heok At this time it is often found in very small streams and is easily speared, thrown out with a pitch-fork, caught with a dip-net or even with the hands.
A small race of this species occurs in ponds and in streams which are blocked by dams so that the fish cannot run down to the lakes. These fish never grow
to a greater length than about five or six inches, and o a greater length than about five or six inche, of this species, but they evidently breed as the supply is maintained.
The Common Sucker is brownish or olive-colored
bove, and white beneath, and the males in spring have rosy flush.
The Northern Sucker is larger than the last-mentioned species and attains a weight of five pounds, and a length ong and slender and is depressed and fattened above. It is found from the St. Lawrence to the Missouri, and the Columbia and northward to Hudson Bay and Alaska.
The
The Common Mullet is deeper through the body
han either of the Suckers, and is olive-greenish vith strong, brassy reflections and with the tail and lower strong, brassy reflections and with the tail and low
fins red. It reaches a weight of from four to five pounds
The Mullet runs up the streams to spawn early pring, and after spawning retires to deep waters. The range of the Mullet is from the upper St Lawrence to Nebraska and south to Arkanses and The food of all three s
insects and small crustaceans

## Another member of this

Another member of this family is the Drum, whicil plain to Lake Huron. This species is Lake Cham the "shoulders" than the Suckers and the Multe, and the mouth is nearer the apex of the muzzle and not 50 markedly inferior as it is in the case of the afore Sucker, Lake Carp or Buffalo.Symptoms.

## THE HORSE.

## Diseases Resulting From Wounds.

## Totanus.

Tetanus, commonly called lock-jaw, is not-infrequent ly met with as a result of wounds or operations. It may result from a very trivial injury, as a saddle or follow punctured wounds, and frequently occurs as a result of a punctured foot. The operations which are
most liable to be followed by tetanus are docking most liable to be followed by tetanus are docking, castration, operations for rupture, the insertion of
setons, and it has been known to follow the application of a blister. The disease is due to a germ which gains ccesstothe circulation through the raw surfaces caused by the object that inflicts a punctured wound. The disease may be described as a powerful and painful spasm of the voluntary muscles, which is long-continued and uncontrollable. The spasm of the muscles is that but of a constant and non-intermitting character disease is technically known by different names, ing to the groups of muscles principally involved, but the term "Tetanus" is used to denote it generally. When the muscles of mastication alone are involved it is called rismus, or lock-jaw. When the muscles of the back and superior portion of the neck are chiefly involved curvature of the spine, and is called opisthotomos When the muscles of one side only are involved it cause curvature of the body, drawing the head and hind quarter of the side affected towards each other and is called tetamis lateralis, or pleurosthotonus. The first two forms mentioned are usually those met with in horses and we notice that, while the spasms involve voluntary muscles of the body are usually affected to a greater or less degree.
Symploms.-The symptoms appear in a variable period after an injury or operation, but usually in eight to twelve days. A general stiffness and rigidity of the
animal will be noticed, he moves with dificulty the nose protruded and the tail usually elevated; the eye champ his jaws and sometimes grind his teeth, and there is often a flow of saliva from the mouth. Respirations become accelerated and the nostrils dilated; the eyes are drawn within their sockets, which causes the ac cessory eye-lid, that is lodged in the inner angle of the
orbit, and is called the membrana nictitans to orbit, and is called the mombrana nictitans; to be pushed out more or less over the eye. If the patient be suddenly
disturbed, as by a slap on the head or neck, he becomes greatly excited, the membrana Nictitans shoots suddenly over the eye, the nose becomes more protruded, the
tail suddenly elevated, and the superficial muscles especially those principally involved, become very hard and tense. At first the pulse is little altered, but in
the course of two or three days it usually becomes hard the course of two or three days it usually becomes hard
and frequent. The progress of the disease is usually and frequent. The progress of the disease is usually
somewhat slow, and a horse will sometimes continue to work for a few days after the first symptoms are noticeable, but the symptoms gradually, sometimes quickly, become more marked, and when the spasms become general the position of the body will be regulated by action of the most powerful muscles chiefly involved. cases it being impossible to separate the incisor teeth sufficiently to allow the introduction between them of a fifty cent piece, in other cases slight motion of the jaws
remains. The limbs are extended and difficult to move. The action of the are extended and difficult to move. difficult. A husky cough is usually noticed when the patient attempts to swallow, which act is usually permuscles of the abdomen are rigid, the belly looks small and feels hard, and respirations are difficult. AlExcitement, meddlesome attendance, strong light, noises, etc., cause paroxysms of great severity. In a modified
light, when the animal is kept quiet, the spasms usually diminish in intensity. In severe cases the symptoms retain the standing position, he falls and is usually unable to rise, and struggles violently and apparently suffers intensely until death ends the scene.
Treatment.-If the jaws become firmly locked in
the early stages, there is little hope of recovery, but the early stages, there is little hope of recovery, but to drink or suck fluids, recovery which enables the patient dermic injections of large doses of a serum known as anti-tetanic serum, is considered the most successful treatment. This should be administered only by a veterinarian. It is very expensive and not successful to risk the expense. As it is a disease of the nervous in a cool, dimly-lighted apartment removed from all noise and excitement and where other animals are not slings. If possible, a purgative should be given by the
mouth, but when this cannot be done the bowels should mouth, but when this cannot be done the bowels should
be acted upon by the hypodermic injection of a gram of eserine or arecoline. The hypodermic injection twice equal, quantity of one dram of carbolic acid in an
in many cases. If he can either eat or drink, it is well to mix with damp food or water about twenty drops of 'Scheel's strength of prussic acid three times daily, out attempts to drench him should ${ }^{\text {® }}$ not be made, as from medicines and good care. When recovery is about
to take place the symptoms gradually disappear, th creases. When a case is going to prove fatal, the symptoms increase in severity, despite treatment and care. It should be remembered that in the treatment of tetanus, quietude is probably of more value than nedicinal treatment, hence none but the attendant be in attendance.

## More and Better Horses Needed.

## editor "The Farmer's Advocate"

Now is the time to emphasize the desimbility in deed the necessity-of breeding all good mares to the The avalable stallions this spring.
The breeder of good Percherons never faced a more favorable future. Draft horses are urgently needed for war, city and farm use. Not more than $1,000,000$ of the $21,000,000$ horses on the farms and ranches of the Unites States will, at maturity, weigh over 1,600 pounds and classify as drafters. No other nation has draft seed stock in sufficient supply to produce a draft surplus of consequence. The United States alone can be counted upon to produce the draft horses, which the world needs.
Exports of horses to Europe for war purposes from September 1, 1914, to January 31, 1918, a period of and 343,435 mules at $\$ 67,390,991$. In addition to the United States Army purchased more than 300,000 head of horses and mules between June 1, 1917 and March 1, 1918.

Additional purchases for war use depend on the length of the war, transport space available and number four men put in the field or mule is reckoned on every importance of calvary, somewhat obscured during the last three years, is likely to receive greater emphasis as the battles approach open field warfare.

Wayne Dinsmore.


A Real Thoroughbred.

## LIVE STOCK.

## J. A. Countryman \& Son, Illinois, had an average

At the Weaver and Garden Shorthorn Sale at Upper
Mill Farm, Iowa, an average of $\$ 1,155$ was made on 46 Mead.

At the third annual sale of Berkshires by Hood Farm, Massachusetts, 75 head aver
The Central Shorthorn Breeders' Association held sale in Kansas City early in April when 191 head average was $\$ 227$.

Herefords are bringing good prices. W. I. Bowman
\& Co., Kansas, realized $\$ 33,485$ for their herd of 107 : Hager sale of 60 Herefords, at Harlan, Iowa, averaged

What the World Owes the Shorthorn.
Thitor "The Farmer's Advocate :
Thot a country in the whole world to which he English or the Scotch Shorthorn has not gone forth, on missionary duty. There are very few places in which
the breed has failed in its mission work, after it has enjoyed a thorough try out.
We in Britain cannot overlook the enormous in
Auence the Shorthorn has exercised on the commercia fluence the Shorthorn has exercised on the commercial North and South. The pioneer.cattle breeders of the
the sam grade up the cattle of their country, and ht lished. Thime many fine pure-bred herds were estabcattle of the Argentine. The native stock of that country has been graded up to a marvellous degree of quality by the continued use of high-class Shorthorn bulls on the large estancias there, and for many years now the been Argentine breeders, and unless they had found the purchase of these high-priced sires a lucrative investment they would not send over as they do year by year for the many of the plums of the breed as can be pulled from The influenc
South Africa, and the Australian has now reached years imported good Shorthorns from Britain. To Russia, Japan, Spain, Germany, France, Belgium and Holland have exportations been sent in pre-war days. The Shorthorn's true value has been in its pro potency; a power which the breed seems to possess in kind of animal is mated with a high-bred Shorthorn the offspring is certain to show strong Shorthorn characteristics. It may be asked why the Shorthorn ex ercises a greater inmuence than any other breed in cross types have been established by a the principal Shorthorn practised by master minds, and that in no other breed of cattle has pedigree and purity of blood received 80 much attention.

The raiser of commercial stock, whether for dairy ing or beef purposes, turns to the Shorthorn sire
being the most reliable and the most likely class of stock they require knowing full to beget the Shorthorn, above all other breeds, possesies in that the tion the attributes of a high-class grazing and millting animal. If we take the dairying interest, for example, we find that the great majority of the dairy herds in in many ordinary or small farmers' herds the although are cross-brds of various types yers herds the cows show evidence of the Shorthorn sire.
The same applies in breeding for beef purposes England and the popular Blue-grey cattle of Northern England and the Border-land of Scotland the result of crossing the white Shorthorn bull with the Galloway or Angus cow, and what is the influence of the Shorthorn
in this case? maturing breed, and never attains any great sive at any period of life. The Aberdeen-Anguts cannot be called a large breed; but the Shorthorn cross gives scale,
size and earlier maturing characteristics, and it is quite safe to say that no class of beef animal is more popular
with butchers all over Britain than the Angus or with butchers all over Britain than the Angus or Gallo-
way Shorthorn crosses.

## The Blue-Grey Crose

Blue-grey cattle are highly esteemed both by grazier
and feeder. They are hardy and suitable for varied conditions, and can be fed to great weights. On many way cows are kept and mated as stated, with Ghite Shorthorn bull. In choosing a bull for this purpose the importance of a good, well-bred one cannot be overestimated. He should be well-fleshed, early maturing and possess plenty of size. On such farms calving
takes place usually in April and May, the cows suckling takes place usually in April and May, the cows suckling
their calves throughout the summer. The calyes are their calves throughout the summer. The calves are
weaned in October, and the cows are then wintered out, receiving in bad weather a small allowance of hay. The calves are also usually wintered out and recelve about 3 lbs . concentrated food, and 7 lbs . to 8 lbs . meadow hay. The advantage of this system is that most
of the stock is wintered outside with the aid of homeof the stock is wintered outside with the aid of home-
grown foods (chiefly hay) together with very little purchased food. The young cattle are quite hardy enough to be wintered outside in this manner (a shelter shed is very useful, however) and are preferred as summer grazing cattle, while these open-air conditions undoubtedy guard against tuberculosis.
The cattle are grazed during the second summer of fat, when they may be sold to the butcher to become is not done may be fed of in the autumn and winter months, making choice fat cattle when about two years old. Many blue-greys are sold in the autumn when keenly competed for in the as feeding cattle and are are wintered out and make excellent cattle for others feeding in the following year. The calves when weaned are usually fat, and would make excellent veal, but so highly are these valued by graziers that the butcher is nable to compete with them in the market.
In many districts where dairying is carried on good this way verys similar blue-grey cattle areway bull. In calves are, as a rule, brought up on the pail, and bring splendid prices either as weaned calves or store cattle, and, like the Shorthorn-Galloway cross, they do squally well. By both methods calves are ometimes produced which are either black, red or roan, but the pre-
vailing color, if bred correctly, is blue-grey.

## Other Commercial Crosses.

The bulk of the excellent store cattle which are now sent over from Ireland are of the Shorthorn-Angus what the Shorthorn has done for Irish cattle consider It is almost impossible to estimate the value of the Shorthorn influence on cattle breeding in that country, Even from the little Kerry cows and others of the nondescript sort excellent store cattle have been bred by
some of the premium bulls of the Shorthrn typ, some of the premium bulls of the Shorthorn type, and years has produced a revolution in the cattle some
of Ireland. As showing the powers of prepotency possessed by high-bred Shorthorns one can quote the case is as ancient and as pure a breed as the Shorthorn, ye is as ancient and as pure a breed as the Shorthorn, yet will show much more of the Shorthorn than the Hereford in appearance and markings. This cross is very popular in middle England.


Fig. 1-The Folding Box Ready for the Fleece.
Three Types of British Shorthorns.
Now, let us analyze the British Shorthorn a little more closely. One of the peculiarities of the Shorthorn colors, but also of different types and distinct characteristics. In regard to color there is the red, white, and roan, the three recognized standard colors of the breed, but these again must be subdivided into red and white, dark roans and light roans, and even the whites are
not always of the same shade, some being of a more creamy hue than others. At one time there were practically only two distinct types of Shorthorn, the Bates and the Booth, but later on the Cruickshank or Scotch type was added, which was more or less evolved by a
process of skilful breeding and selection out of the other process of skilful breeding and selection out of the other
two. These three types of Shorthorn have in recent years
been so intermixed that the distinguishing charbeen so intermixed that the distinguishing char-
acteristics have to a great extent been lost. Still, close observers can see the thick, blocky carcass
of the Cruickshank; the fiery head and eve of the Bates; and the Booth style of horn very often all appearing on the same animal. Then, again, whereas
other breeds are noted either for beef or milk alone, other breeds are noted either for beef or milk alone, lines, on dairy lines, or on dual-purpose lines, so that in regard to color, type and general characteristics the Shorthorn is in altogether a different category to any other breed of cattle. All this must seem somewhat
perplexing to those who do not know the story of the perplexing to those who do not know the story of the
breed, and not only is it perplexing to the uninitiated, but these peculiarities render it extremely difficult
to breed true to type in any herd without pursuing the to breed true to type in any herd
system of line (or close) breeding.
Once the various types were sub-divided. Each
of the most celebrated Bates families had characterist is peculiar to themselves. For instance, the Duchesses, were noted for their high-bred appearance and
grandeur of carriage. "Character" was written all grandeur. of carriage, or them, and the pese of their head, the formation of
over
their horns, their round, prominent eves and altogether majestic appearance placed them at one time at the
head of the breed. They broke the "world's records" in prices and as an outcome nearly "broke" the breed.
Like the Duchesses, the Barringtons, which are the Like the Duchesses, the Barringtons, which are the
chief branch of the family; have always possessed characterist ics peculiar to themselves and distinct from
others of the Bates families. Thei have a certain strength of head and a sort of Roman nose peculiar to themselves, and the bulls of the Barrington tribe are
almost invariably of strong masculine character, but to-day are losing their distinctive appearance. Now, the Booth type was of quite a different stamp
to that of Bates. A pure-bred Booth animal could always be picked out by the head and horn and notice-
able character. Booth cattle had "triangular" heads. The horns were somewhat strong and coarse, with very
often an upward tendency, and although the Booth often an upward tendency, and although the Booth
cattle had not the style and grandeur of some of the cattle had not the style and grandeur of some of the
best Bates sort they had longer cuarters, thicker flesh
and botter-sprumg ribs, and were altogether mum and better-sprung ribs, and were altogether math Cruickshank cattle, hemerer, chomgel "onsthime and created a mixer sppe of pond deal of the sthe has been lost, but shorter less, thicker and more homet
blood is persisted in in the second and succeeding generations away flies the milk supply, is really distinct from the beef type, albeit there are to be found within the Shorthorn breed itself, a number of animals of a genuine dual-purpose type. The Milk-
ing Shorthorn is being raised in ever-increasing numbers ing Shorthorn is being raised in ever-increasing numbers
in Northern, Middle and Southern England. Families such as the Ringlets-are springing up into new fame such as the Ringlets-are sprecras, surpassing the thousand gallons in a
lactation, are now kept and preserved. Cumbertand and Westmorland counties are full of cattle eligible for "The Book", but hitherto left outside of it by their
owners who have "never bothered" about -pedigree charts" until they observed that there keeping genuine and long-continued call for their cattle. They are now "getting together" and stock which can pass upwards in monetary value, which is as it should be.

## Caring for the Season's Wool Clip.

There can be no question as to the importance of wool at this time. The civilian population of this country
cannot fail to notice it in the occasional purchases of wearing apparel and similar necessities. Ordinary clothing is becoming a problem, but there are millions of men in uniform who have prior claims to such comfort as wool provides. The man who cares or he Great Cause, and, at the same time,bringing to himself a greater reward for time and labor expended.

Many flocks have, no doubt, been shorn ere this, but in the great majority of cases wool is still on the sheep's back. In this condition, and later when shorn, it manufacturers, and most valuable as a commodity for which the grower expects the highest market price. A fleece full of burrs and dirt, tied with binder twine and kept in a damp place is not such as will command the
same valuation as clean wool properly folded, tied with same valuation as clean wool properly folded, tied with
paper twine and kept apart from excessive moisture paper twine and kept apart from excessive moisture
until placed on the market. Formerly wool was wool,


FFig. 2-Fleece-folding and Tying1 Sox; Fleece Tied.
but now with a thorough gradin, system in vogue, conducted by the growers themselves,
recognized and appraised at its actual value.

Care Prior to Shearing.
Poorly-fed sheep possess a harsh fleece which lacks oil and of ickness or unthriftiness cause weak sections in the

## -4 mern W001 130 x Mor <br> SHAPING AND ItYING mhabob

Fig. 3 -TheIFleece-folding Box
them. Proper fect racks should be used in order to keel
hay and chaff out of the wool, and burrs should b awided. Sheep running on plowed land before shearing this is objeectionable. Kieep the wool clipped behind Never use oil-paint or tar in marking sheep. These are not sorur cout. There are proprictary materials on the market which give a fairls permaninent lrand under is now wish the wond on the sheep's back. We washing the buyers pefer to have wool in the grease. The weiht
lost in wasthing will not lwe compensatel lor to sufficint increase in price, so the woml should be markected in it Precautions at Shearing Time.
with a large blanket or piece of canvas is an improvement
on the hard floor. The relative comfort enjoyed sheep will cause them to remain more quiey and the Before rolling the fleece, shake it lightly so as Before rolling the fleece, shake it lightly so as to
remove all loose locks should be removed and never or badly-discolored fleece. Always pack these separately, for when mith the clean fleeces the color of the good product is damaged Spread the fleece, skin side down, on a swept floor; the outer edges are then folded over, and after that, commencing at the tail and neck ends, the fleece is rolled up compactly, Never use binder twine in tying the with the fibres of the wool, but it does not take the dye in the same way, so cloth containing this sisal is very much lessened in value. In some cases the neck-piece is pulled out and twisted into a band. This, however, is unadvisable, for the rope thus made is very difficult to untwist, and consequently this method of tying depreciates the value of the wool. There is a paper twine
which is very well suited for the tying of wool. All the suited for the associations require its use, and it is easily obtained through the executive of these organizations. The wool should be tied in all
cases; when untied, fleces fall cases; when untied, fleeces fall
apart in shipping or handling, and far too great a portion of grades, because it cannot be kept in condition to classify properly. Anyone shipping wool in large
quantities should quantities should obtain wool
sacks, the standard size of which is sacks, the standard size of which is wide. These will hold in the wide. These
neighborhood of 200 to 240 pounds.
One of these sacks will hold about One of these sacks will hold about
20 fleeces. Where a farmer has a small number of fleeces, say from five to twelve, clean jute bags are sometimes used. bags are turned inside out and properly shaken, so as to avoid the chance of loose fibres along the seams mixThe wool box for shaping and tying a fleece of wool, illustrated herewith, helps considerably in putting the fleece into proper condition and in tying. Pamphlet No. folding and the dimensions of this box in the two following paragraphs. The illustrations are taken from the same pamphlet.

Description of Fleece Folding Box
It is necessary to keep the fleece as intact as possible
during shearing Fold sides and ends of fleece to centre during shearing. Fold sides and ends of fleece to centre with clipped or skin side out; then place on folding board
after paper twine has been threaded on the board, as shown in the accompanying illustration. The sides and ends of the box should then be brought into the position illustrated in figure 3, and held together by means of wooden cleats
Material required will consist of a board 9 feet long by 1 foot wide and 1 inch thick, which may be cut into $t$ wo pieces 3 feet long and three pieces 1 foot long. The pieces should then be hinged in the manner shown in advisable to use springs to hold the end board upright when compressing the fleece. The foregoing description represents the size most suitable for all grades of fleeces, except Coarse or Lustre. The latter will require a boi of greater proportions. Two inches added to all dhout ensions will make it sufficiently large to contain, wid
difficulty, fleeces of the average size of these grades.


EFig. 4-Proper Method of Folding Fleece

The follow ment pamph nection with It means mo tags.

## Can

Editor "The One of th
Canada w in Canada w mittee of Wo vention of sh and wool pul The manu by the Britis consequently, wool to meet manufact they claim Ca without them upon it. in any reason insure Canad tention stron from Canada prices fall be stricted mark which would
Canadian wo Canadian woo
present restr whereby the imported woo his purchase The result "That the export of in the same options, wand,
free wools, th embargo at export from
now held or of this to be u

Sheep and

The Cul The fax
nnual wiath annual with
leaves and
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Points to Keep in Mind.
The following points taken from a Manitoba Government pamphlet are well worth remembe
nection with the care and handling of wool: 1. Keep wool clean before and after shearing. It means money to you.
2. Dock tails from all lambs. This will eliminate tags.

Don't wash the wool. Sell all wool in the grease Don't shear wet sheep.
Don't roll tags in the fleece with good wool
Don't mix gray and black feeces with white. Keep them separate them separate. them separate
10. Don't use dirty bags

Dont sell locally. Get the highest price.

## Canada Wool Offered to the Manufacturer

Editor "The Farmer's Advocate":
One of the most important meetings of sheep raising in Canada was recently held in Ottawa. It comprised a conference called by the War Trade Board of a Com-
mittee of Wool Growers appointed at the National Convention of sheep raisers in Canada early in February, and wool pullers.
The manufacturers feared they may not have sufficient Australian and New Zealand wool allotted to them by the British Government to serve their purposes, and consequently, might require American and Canadian wool to meet their needs. At present, American wool cannot be exported to Canada except for the purpose
of manufacture of American Government orders, and they claim Canadian wool was most frequently shipped out of the country, either on consignment or direct sales, without themselves being given an opportunity to bid ${ }^{\text {und }}$ The
The growers were eager to assist the manufacturers in any reasonable fashion that at the same time would American market for this product, and drew their at tention strongly to the likelihood of an exodus of sheep from Canada to the United States should Canadian prices fall below the level of those in that country stricted market for Canadian wool, and the advantages which would accrue to the Canadian sheep raiser if Canadian wool went into the United States without the present restrictions imposed by the latter country whereby the Grovernment exercises an option upon al imported wool at July 30,1917 , prices less 5 per cent
At the same time they were willing to present their wool to the Canadian manufacturer before export, fo his purchase at the export price should he desire it. owing resolution
"That the Canadian War Trade Board request that the U. S. War Trade Board continue to allow the free
export of Canadian-grown wools, both fleece and pulled export U. S. A. on the basis that grading is permitted
to the U.S. in the same without exercising government import free wools, that the Canadian Government remove th embargo at present in effect which prohibits the re now held or in future imported into Canada, the export of this to be under license.

## THE FARM.

## The Cultivation of Flax For Fibre.

## The flax plant (Linum usitatissimum L.) is an

 annual with delicate roots, a slender wiry stem, narrowleaves and blue, sometimes white flowers. The fibre, lo which it owes sits strength whd its value, is situated
to whe
near the outside of the stem, near the outside of the stem, the central woody part or
"shove" being of no commercial value. The flowers on the same individual plant open in succession and in colscquence all the seeds do not ripen at the same time
Each seed-boll or capsule is dry when ripe and contains ten or fewer brown seeds. The capsules open by a serics of narrow chinks, but these are not sufficiently
wide to allow the seeds to fall out. When flax is sown thinly each plant is extensively
branched and shrub-like and the ripening of the capsules branched and shrub-like and the ripening of the capsules
extends over a much longer period, as the numbler of extends over a much longer period, as the number or
flowers is much greater. Such a plant has little value
for fibre. When the seed is sown sufficientli; thickly each plant produces a tall, unbranched stem like that of a forest tree, and has only a few flowers at the tip.
This is the type of plant aimed at in growing flax for A climate where there is a considerable amount of mosure in the air and where the crops are not liable
to suffer from drought is the most suitable. This leing
so so, the western part of British Columbia, southwestern
Ontario, the valley of the St. Lawrence and the Muritime Provinces may be expected to produce the lrest A sint that is suited for the growth of cereals and
other arim crops may be expected to give similar re.
sult when sown with flax. Where choce is possible
sand, loam is to be preferred. As uniformity in all
with the profluction of flax fibre it is advisable to chnose a field that is as level as possible and has a uniform type of suil so that the moisture-holding capacity will be similar throughout.
Flax should not be sown on the same land oftene than once in fiye to seven years. Its exact place in the rotation varics, but the common practice is to sow
after wheat or some other cereal, or on land that has nanure should flax. It is much better to manure heavily some previous crop in the rotation. The most important artificial fertilizer for flax is potash. As this is not available at present it may be possible to apply wood ashes, or in
districts near the sea to apply seaweed to some pre vious crop.
It is very important that the land should be reduced
to a fine state of tilth. It should be moderate depth in autumn and worked in spring to pulverize it thoroughly. Only land that is free from weeds should be sown with flax. Any weeding after
the seed germinates must be done by hand and must the seed germinates must be done by hand and must plants. The land is sometimes rolled before sowing the seed, as it is held by some farmers that this practice
facilitates the covering of the seed to a more uniform facilitates the covering of the seed to a more uniform
depth and makes the seed-bed more compact. blue-flowered, others white-flowered grown, some being is considered to give a slightly better quality of fibre The seed used should be that of a fibre-producing flax and not that of a flax grown solely for oil. If possible,
Russian or Dutch seed should be obtained or else the Russian or Dutch seed should be obtai
produce of such seed grown in Canada.
Flax seed often contains immature seeds and weed seeds, and it is very desirable that these should be got rid of by rescreening and recleaning. It is usually impracticable to do much weeding among a growing
flax crop, and weeds are a great nuisance at harvesting Flax is subject to several diseases which may be carried by infected seed. Before sowing, the seed should


An Example of Hereford Character
be treated as follows: Spread the seed on a clean floor or canvas in a thin layer. Use one ounce of formalin to ten quarts of water and apply two quarts of the
mixture to each bushel of sead by means of a knapsack mixture to each bushel of seed by means of a knapsack
sprayer. Mix the flax seeds thoroughly until each seed sprayer. Mix the flax seeds thoroughly until each seed
is covered with the solution. Continue stirring the seeds until they are dry.
Flax should always be tested for germination before sowing, otherwise it is impossible to tell what amount
of seed to use. If the seed gives after three days a of seed to use. If the seed gives after three days a
germination of 95 per cent. or over, $11 / 2$ bushels of seed germination of 95 per cent. or over, $11 / 2$ bushels of seed
will suffice. With a germination of 85 to 95 per cent., $13 / 4$ bushels per acre should be sown, and if the germination falls between 75 and 85 per cent., 2 bushels of seed will be necessary. About 50 pounds are reckoned to The best time to sow will depend on the character of the season which, however, cannot be foreseen. It will early as the land can be got into proper condition, and the rest about a week or ten at harvest time. Flax when quite young can withstand sufficient to freeze the ground solid is likely to injure The seed is usually sown broadcast, and a calm day shoukt be chosen. If sown by hand, care must be is slippery, It may be drilled in rows tour inches If the land wat ansep, a considerable amount of clay it
will lhe advashle not to roll it as the surface may beshould to rulleal hefore sowing. (Clover is frequently first ear Fix for fibre is always pulled up by the roots.
As it has a slender ront there is not any difficulty in this, as much flan as can easily be grasped between
each operation. Great care should be taken to keef the root-tips quite uniform and any soil adhering to
the roots should be knocked off. The handfuls of flax the roots should be knocked off. The handfuls of flax are laid on the ground and are afterwards tied in bundles
of about eight inches in diameter. The bundles should be tied rather loosely, a few stalks of the flax being generally used for the purpose. The bundles are then set up in stooks to dry. It will be found to be an advantage to tie the bundle not in the middle but nearer the upper end. Each bundle may then during we
weather be spread out at the base and will stand alone After rain it will dry much more quickly than in the stook. Any short patches of flax should be pulled separately and kept separate from the rest of the crop through the various stages. An average worker will pull an acre in four days. At present, experiments more thorough testing will be necessary before any of them can be recommended. In case a crop of flax is over 30 inches in length there seems to be no very strong objection to cutting it, provided it is cut very close to the surface of the ground and that the cutting ma tangling.
Flax is ready for harvasting when about half the seed-bolls are ripe. If crushed between the fingers the seed-boll will be found to be quite dry and the seeds dry and brown. At this time the lower half of the stem will be yellow and devoid of leaves as a genera rule. The rest of the seeds will ripen subsequently in
the sheaf. Over-ripening before pulling should ber carefully avoided as the quality of the fibre will suffer in consequence.
The dry flax may be stacked or housed until time is available for removing the seeds. This can readily be done during the winter months when other work is slack. The seeds can be removed by crushing the capsules between rollers, care being taken not to injure
the seeds or the stalks. An alternative method is "rippling" which consists in pulling handfuls of flax over and between iron teeth placed close enough to pull off the capsules which can be crushed afterwards by a wooden mallet. The deseeded flax straw should then be tied up again in uniforin, rather loose bundles
of the same size as before, the band being in the same position. The flax should be kept dry until early summer when it is retted. If flax is rippled a few days after pulling it can be retted the same season. The rippled capsules should in that case be spread on a clean loor and turned
ondition that the fibre may be easily separno such condition that the fibre may be easily separated from
the worthless woody portion or "shove." There are two methods of retting in common use, dew-retting and water retting. In the former, the flax is spread in a thin layer on the surface of the grass and turned several times at intervals of a few days according to the weather
Two acres of grass land will be required for one acre of flax. Dew-retted flax is not so uniform in quality and brings a considerably lower price than water-retter
For water-retting it is necessary to dig a tank about $31 / 2$ feet deep and about 6 feet wide. A pond 60 feet flax, but it is better to make several small retting ponds The tank should be dug several months before it is required, and if possible on a clayey soil. It will be a great convenience if it is. so constructed that the wate e situated near a small stream, the water of which an be diverted to fill the dam. Beginning at one end of the dam the flax bundles are placed nearly erect with the root-ends downwards, but should not be pressed oo closely together. All the flax in any one pond should be put into it on the same day. When the flax
bundles have been put into the pond, stones of moderate size are placed on top as the bundles are liable to rise after fermentation begins. The water should then be turned on and allowed to flow until the flax is well covered after which no water should be allowed to flow through unless leakage has occurred. If the flax rises above the water during the process of retting it should
be pushed down with a fork and more stones added. Water containing lime is not suitable for retting In this case, the dam may be filled beforehand with rain water provided that it has been constructed at the bottom of a slope. It will be more troublesome to put the flax into the dam if it in used any number of times if the water is changed after each operation. The best temperature or retting is 72 degrees $F$., but flax can be retted at a lower temperature, a longer period being required in that case. After the flax has been in the water for five if the right stage has been reached. If the flax stem when bent breaks across sharply and the outer fibre can be readily peeled off clean from the central wsody core it is sufficiently retted. The test should be made about half way up the stem. When it is being taken out of the dam any adhering mud should be washed
off. After removal from the dam it is set up on end to drain, after which it is spread on the grass to dry to is possible in suitable weather to dry it without clining them against i fence or low wooden rail. When quite dry it should be carefully stacked or housed Scutching. This is the term applied to the separa-
ion of the fibre from the woody core. The machinery tion of the fibre from the woody core. The machmery "brake" and a "scutching stock." The former consists and the hard, woody core is crushed and broken into short lengths. The latter consists of a revolving wheel
with wooden or iron blades which beat out the woody
"shoves" from a handful of broken flax when held source them. A small oil engine is the most able, will do equally well. Scutching is generally carried on during the winter months and should only be done by an experienced workman.
reed on are considered an average yield per acre. The aeed on are considered an average yield per acre. The average yield of flax seed per acre for the whole of
Canada for the five years from 1911 to 1915 was $111 / 3$ bushels, while the average yield in the Province of Ontario, where the crop was grown primarily for fibre, was for the same period $161 / 2$ bushels per acre. With proper attention an average yield of 450 pounds of cutched fibre per acre should be obtained
tion of aeroplane wings. Flax, therefore, is an indispensable munition of war. Russia and Belgium formerly supplied five-sixths of Great Britain's demand; now they supply little, if any. Consequently, and despite the greatly increased acreage of flax in Ireland
in 1917, Great Birtain has not now more fibre on hand in 1917, Great Birtain has not now more fibre on hand a half days a week. To further complicate matters, the flax seed crop in Ireland was perilously near a failure last year. So serious indeed was this seed shortage that the members of the Irish Linen Industry held a meeting in Belfast last January to consider the situation. Finally it was agreed that $\mathbf{~} 2,000,000$ should be provided to plant 10,000 acres in Ireland with Western Canada not this inferior variety of flax could be utilized as a fibre crop. The Ontario-grown flax is a fibre flax. It is the seed of this kind of flax that should have been used in Ireland, if it had been available
acres were planted, and $2,600,000$ pere operated, 6,000 acres were planted, and 2,600,000 pounds of fibre and
45,000 bushels of seed were produced. Our flax business last year had a total value of $\$ 2,000,000$. Moreover, the seed produced will accomplish a vital mission abroad, as a large part of it has been shipped to Ireland to meet the great seed deficiency there. And for 1919 Ireland will require more seed of the Ontario fibre flax. is needed in 1918. Already flax-growers are planning an 8,000 acre production, at least. Each of the thirtythree mills is in the market for all the straw and seed that can be secured, and good prices are assured the grower. This latter encouraging feature is made the more sure as a sufficient tonnage of ocean bottoms
will be available to transport a greatly increased crop to English and Irish mills.

The arrangements made in the past have, for the most part, provided for the leasing of flax land by the
mills at a rental of from $\$ 10$ to $\$ 15$ an acre. The mills at a rental of from $\$ 10$ to $\$ 15$ an acre. The grower ploughed the land, prepared the seed-bed and
hauled the crop to the mill- except where the crop was carried on the railroad. The mill operator supplied the seed, often did the seeding, and always harvested the crop. The flax was pulled by hand and the workers
were housed in the fields in tents. Their transportation was paid by the mill company, and they received $\$ 15$ an acre for pulling. It took a first-class puller three days to finish an acre. As the workers prepared their
own meals, the growers were in no way inconvenienced by having them on their farms. farmers may system is still followed almost entirely, farmers may very profitably grow flax, doing all the acre of good flax will produce some nine bushels of seed and two tons of straw. The seed sells now for from pendent upon quality. It cannot be too strongly pendent upon quality, all acreage of flax of the highest quality is more valuable both in terms of dollars and aeroplane wings than a large area of inferior flax. Quality rather than quantity must be the slogan. In case labor conditions prevent the pulling of flax the crop
may be harvested with a binder, the seed sold at may be harvested with a binder, the seed sold at
remunerative price, and the straw at about $\$ 15$ a From Dominion

## White Flour Forced on Buyers

Edtor "Tbe Faraiter which has been a wonder to me
There is a matter whic for some itime patter and would likikeoto have eoort oition
on it. In every paper we pick up these days there is the cry to use other articles of food to save the white
 without taking one-nth of it in white four. Farnuers compelled, to tare home a bay of white your and know one farmer who took 10 bags reiected by the other
farmers who didn't need it and said he would use it lor pig feed. And yet we are told to make grahase thour, we possibly can on our talles. This is true at two
stations at least in Dundas, and probululy in tlont, of
 who goes there. Furthermore we buy bread at many of
the neiphboring bakerise and yan almost never get a loaf of brown bread, although we would he glad to do sh
I should like to know wly white hlour is os connumen that


 foregoing letter is only too common. Whyy in is that
authorities have not shown a stronger inum matter we cannot understand.-EDTTok.

The Barberry and Wheat Rust.
by prof. J. E. Howitt
At the present time when "wheat, more wheat" the cry that reaches us from the firing line, and when the success of the Allies and the very freedom of the world armies in the field no possible means of insuring the maximum yield of wheat per acre should be overlooked. Therefore, the attention of all concerned in wheat grow ing is again called to the relationship of the barberry to the stem rust of wheat.
It is not necessary to go into the complicated life history of the fungus which causes stem rust of whea and other grains. Scientists have known for many years that one phase of ave made a study of the matte agree that the amount and severity of stem rust is very much increased by the presence of the barberry in the neighborhood of grain fields.
In several States and in Ontario, legislation has been passed regarding the destruction of this shrub. So fa as this Province is concerned the "Act" respecting the barberry shrub appears to have "cen a dead letter up The barberry in Ontario should be destroyed. There is strong evidence to show that barberry bushes are centres of infection which in wet seasons may give rise to severe epidemics of stem rust. This is especially likely to be the case this year when so much more spring wheat than usual is being grown.


Signs of Spring.
severe epidemics of stem rust of wheat every three o
sulted in the extermination of the barberry. Since then epidemies have not occurred, and stem rust has
ceased to loe a factor in causing loss. disappear if the harlerry is elestroyed, see rust entirely sensus of apinion seems to be that if it were completely
exterminated the chances of severe epidemics of stem
rust occurring would be greatly reduced. Let all concerned realize that the barberry does
increase the ammom and severity of stem rust of wheat, and a sentiment will be created for the enforcement of the I'ruvince of this menace to wheat. There should
yellow wood, arching branches and grey twigs. The one to three inches long, the margins with bristly from The flowers are small, yellow, and borne in long, drooping clusters. The berries are oblong, red and sour. some sections of Ontario for ornamental purposes and has become wild in many localities.

If barberries are required for orn
low-growing, small-leaved Japanese Barberry (Berberis Thumbergii, D.C.) may be planted, as this species does

## Ontario Grop Outlook.

The following information regarding agricultural conditions in this Province is contained in a bulletin prepared by the Ontario Department of Agriculture, correspondents under date of April 12th: large staff of

Wintering Crops.-Although most
grow winter wheat had intended to increase their last fal!, the late harvest and the scarcity of help kept the area sown to about that of the preceding year. enter the winter satisfactorily hardly enough top to young plants appeared to be vigorous, Afterwise the cleared off, the nights continued very cold, and the snow suffered fr:m the alternate freezing and thawing of the unprotected fields. The present appearance of the young wheat is not encouraging, most of the fields being more or less brown and patchy, and all of them spring rains, as the good part of March and the old and clear April were tically no rain, while frequent winds helped to make the ground exceed-
ingly dry for the A few good warm showsers. may yet help the crop to opinion is that a goneral deal of drilling a in of spring grains will be necplowing und also some eseeding, has beet some already. In those counties In Eastern Ontario where all wheat is raised it has done better relatively Counties where the crop is more largely grown. Winter rye has also
suffered injury by the rying spring weather, but not to so great an Clover, however, has ome through better than While some heaving has
been reported, and while been reported, and while
looking sick in places, the looking sick in places, the general appearance of the sidering the rather unyoung crops wintering eported, the crop was reported, the crop was
needing rain in order to eceive a good spring Orchards.-Unusually low temperatures dur-
ing the winter injured some of the buds on tender varieties of peach portion of the young wood n some grape vines, but age is not serious. There are complaints of girdling of young fruit trees by fied mice and rabbits. The Live Stock.-Horses are plentiful, and drivers and undersized general-purpose animals are selling cheaply,
but heavy working horses are more in demand, and are commanding good prices
Cattle are in good general condition, although not
so many beef animals are being fed, owing to the high so many beef animals are being fed, owing to the high talling off in milk from the same cause, and owners are The swine industry is at high mark. More brood sows are kept than ever before. What is known as igorously for several months past, and farmers generally are raising all the young pigs they can feed, of feed and the comparative failure of the corn crop. A Wellington County correspondent states: "I have raised already 200 sucking pigs, and could sell 400 more if I had them at $\$ 7$ each." There will likely be a steady
increase in the number of hogs from now on, although
$\qquad$
ever, there is a grood subply, of fery sparingly roots on hand. How-
bulk of the reports indical of necessary supports indicate that most farmers have the rationss, but that careful feeding mase fairly well- balanced
the the order of the day until pastures are reaing must be the order of Increased Production.-A.
farmers the general farm attitude when he says: "Most froduction if like to increase their acreage for field production if they could depend upon procuring sufficient endeavor is being made by many fable lack of help, an area of spring crops. A considerable to try spring wheat for the first time or increase about former acreage. More barley will also or be sown. With
the unusually dry weather so for
have been able to get upon the land early, and already a considerable area of spring grains has been put in in as to scarcity of good, well-tested seed corn.
farm Labor and Wages.-The dearth of experienced farm workers continues, and much of the help this
season will have to be more season will have to be more or less untrained. A num-
ber of organizations, official at work to help to supply the need as fully as possible. Correspondents declare that farmers will as possible. change work more than ever and use more horses and larger implements. Wages for married men run from $\$ 400$ to $\$ 00$ a year, with free house, garden and cow pasture. By the month good men get from $\$ 35$ to
$\$ 50$, with board, and in York County as high as $\$ 60$ is

## Canada's Young Farmers and Future Leaders

## Utilizing Summer Evenings.

 Whether the clock is advanced an hour or not the summer evenings are long during May, June and July door recreation. There are those who think of out farmer and his family should work from before sunrise until after the sun disappears behind the western hills, in order that production might be increased to the utmost. However, there is a limit to a man's strength. He can do so much, and then nature calls a halt . isome if they abuse their health and strength they later suffer. There are men and women who should be in the prime of life to-day who are physical wrecks be cause they worked beyond their strength at some time or other. It is but natural for an ambitious boy or girl, man or woman to work hard to get ahead, but itmust be remembered thor must be remembered that what they secure by over-
working themselves avails little if the gain is secured at the expense of health. Experience has shown that the office manager and
clerk cannot keep up their efficiency if they labor over their desks long hours day after day and month after month. While some are able to stand the strain, the majority fall a prey to insomnia, general debility, etc. been regulated so that but a small portion of the day is spent at the office, and plenty of time is left for recreation and rest. This system tends to the greatest efficiency. The same is applicable to the farm. The tiller study and plan his work Hecreation and time to read doing in his line on other farms and in other countries. If he labors with his hands from sunrise to sunset, he is not in a position to plan as he should. It is scarcely
feasible for the farmer to work as short a day as the average office man. It the work as short a day as the average office man. If he did we fear that production
would fall far short. Even after the day's work in the held is completed the chores must be done, so that saying, "All work and no play makes Jack a dull boy" is quite true. The tired body and mind cannot do their
best work. On some farms the chores are counted in
the day's work, and the day's work, and while the hour for rising is rather
early, the teams chores to be finished the field at night in time for the long evening for recreation or rest. The plan harly worked well in many cases; the work is kept up, and the hired help and young people of the farm are more coninnted than if they were called upon to work ten hours ing. held, besides doing the chores morning and even ing.
Those who are many ways of spending the evenings. visit friends or artertunate a show, or go on a pleasure mayn Some are football or baseball enthusiasts, and get a good. deal of sport out of these games. In many communitie A group enough young men to organize a ball team. A group game is excellent training. It trains a person group. It is hard for some to make a play, that whil tending to win the game does not bring them much credit, but the true sport does it, and this trait grows and makes him less selfish as a man than if he grew up Working entirely for the glorification of himself all the time. A few friendly games may be played during the
summer with neighboring teams. son's acquaintances, and a lits. This adds to a perincrease a boy's loyalty to his home community
A tennis club might be organized for the benefit Some ladies and the boys not interested in other sports Sond might prefer spending the evenings reading, others while we know of the working in the flower garden giving the horses anose who spend many evenings To some this would be work to ock special attention as according to some, "A change is as good as a rest." Playing ball or currying cattle might be harder worl than was being done during the day, but it is a change A person does not always have to sit with folded arms in order to rest Plan to utiliz
bear in mind the the time to the best advantage, but bear in mind that continual work is not necessarily an
indication of thriftiness. While hard work helps a man
get ahead, he must work to good advantage, and this requires planning. There is an easy and a hard way of doing many jobs, and there are those who go at their work in the hardest possible way as a result of not using their heads; consequently, they labor long hours in hours less work, a half-hour planning whereas a couple of half of recreation would have put the and hour and aThere must be someone to organize the ball team or start other forms of amusement. These things won't start themselves; there must be a leader, and many communities are suffereing because someone does not of 1918, but remember thaste the summer ${ }^{2}$ tennis, etc., is not waste time.

## Cost of Raising Pigs.

## Editor "The Farmer's advocat

We keep accurate account of every pound of meal that is fed to our hogs and are able to give the exact returns for each litter. We have recently disposed of one load of 6 hogs and during their lifetime they consumed 4,280 pounds of meal, which at $\$ 2.50$ per cwt. would come to \$107.00; 200 pounde of shorte have not charged sesthing total or feed to \$111.50. as it was almost imposibib to estimate exactly the amount fed. The meal was oat and wheat mixed the wheat being the screenings from the marketable On March 25; we killed one hog for our own use, which weighed 167 pounds, and when dressed was worth $\$ 32.60$. received $\$ 215.45$ for them. Thus the receipts for we received $\$ 215.45$ for them. Thus the receipts for the
six hogs were a little over $\$ 135$ above the cost of feed Allowing a fair consideration for mangels, milk and the young pigs at the time they were weaned, we consider that we received good wages for the time spent looking after the pigs.
Halton Co., Ont.

Young Farmer.

## Automobiles, Farm Machinery and Farm Motors.

## The Auto Body

Then we went to school the teacher told us that all Gaul was divided into three parts. An automobile Is divided into two parts-the body and the chassis. carrying arrangement. It consists of four fenders, one fenders and wheel, two running boards connecting the the top of a running board to the lower part of the main body in which the seats are located. It can also be said that the engine-cover belongs to the body proper. The body is bolted to the frame and can be entirely removed
without, in any way, interfering with the power plant. without, in any way, interfering with the power plant.
There is no machinery about the body and so all the care it requires momes under the head of cleanliness. It is it requires comes under the head of cleanliness. It is
well, however, to occasionally look to the bolts which hold the bory, to the frame and make certain that they are not only tight but secure
When the body becomes
or mud make the earliest possible arrangements to have it washed. The longer foreign matter remains upon the
body the more difficult it is to damage it can accomplish. Dirt that cakes upon the varnish soon kills all the lustre and promotes a dull, dead appearance. The first step in washing a car is the water because if you do you will injure not use varnish. running water. Should to remove dirt and that is by rumning water. Should you attempt to rub it off you
will force the grit into the finish and seriously scratch
it or before it has had an opportunity to become dry and hard. Having released all the dirt you can now clean up grease spots or streaks by using a soapy solution
made from clear water and castile soap. Just a little warm water added will give better action on the soap
and provide it with quicker cleansing properties. You should put on this solution very easily with a soft sponge.
The chear The cheaper grades of soap which contain a certain
ancunt of alkali should never be thought of for an in-
stant alkali should never be thought of for an in-
alkalithat a disastrouseffect upont the varnsh.
soaping process is over wash the car again
with clean cold water until every particle of soap has
been removed, then rub the body to a fine polish with a chamois skin that is not only clean but soft.
If your leather upholstery is very dirty it is always
good policy to remove the top in order that good policy to remove the top in order that you may more
easily clean out the pleats or tufts right up to the very easily clean out the pleats or tufts right up to the very
edge of the body. Go over the seats and cushions with amp coth deat do not exert a great deal of tinuous rather than strong and jerky Particles of dirt can be pressed so hard that they will scratch the leather. When the upholstery is perfectly dry again, rub it down
with a cloth that has been moistened with sweet oil. The oil has a tendency to make the leather pliable and prevents any splitting or cracking. Nothing detracts
more from the appearance of a passenger car than dirty upholstery. On the other hand clean seats and cushions always look inviting to those who are asked to take a Your top will not require a great deal of attention other than which commonsense would suggest. Wash
off the ising-glass window at the back with a damp oflothe insg-glass inindow at
cloth at frequent intervals and use a whisk-broom to remove dust and dirt from the mohair after each long
trip. We think it is advisable to drive with the to up although there is no doubt that this uses up a little more gasoline. If you favor riding with the top down
be careful to see that it is folded away carefully in order be careful to see that it is folded away carefully in order
that it nay not become pinched or worn between any of the bow spacers. It is an excellent policy
to pull the envelope over it when it is down. Otherwise the recesses in the top will necessarily gather a tre-
mendous amount of dust. Accumulations of dirt have a tendency to harden and it will not be long until the of grit until they wear small holes in the top material.
When the envelope for your top is not in use fold pockets or under the seat or in your garage in order nat it clean appearance may be preserved as far as
possible. Your car will always look more attractive
t the envelope is tidy.

## Batteries and Magneto.

Edtor The Farmer's Advocate
On page 634 of April 11th issue is a letter by W. F. Hodson commenting on an answer to a query which batteries and mas. It is not necessary to have both been so improved in recent years that the engine will start as readily off magneto as off battery. Mr. Hodson thinks this is not borne out in practice unless the supply of oil and gasoline is watched carefully and neither too this conclusion was reached from experience with magnetos not of the latest design. The "impulse starter" now used on high tension magnetos does the trick. Even though the engine is turned over very leisurely give just as good a spark as causes the magneto to give just as good aper revolutions per minute This is what several mind in the answer relerred to, and I cannot see why an improper amount of either gasoline or oil should retard ignition with this magneto any more than with the
battery.

Electric Lighting Plant on the Farm.
The small electric lighting plant that every country man can have and can operate is a mighty agent for electric vacuum cleaners, electric driven electric lights, chines, irons, cream separators, churns, sewing machines, fans and a multitude of other electric household helps are availabie to the farm home which can afford an electric lighting plant. Since the popular 1,000 watts at 32 volts from the 50 light watts, at 32 volts from the 100 -light plant, the pro spective purchaser, who has reached a decision as to the approximate number of electrical appliances he well
want to operate, will not find it dificult to closely
determine the capacity of the plant
for both lighting and power purposes
ly equal to 30 lights.
equal to approximately 23 light
Washing machine motor, one-sixth horse power consumes
10 lamps.
sume as above motor, one-sixth horse-power will con
Water pump motor one-half horse-power consu
approximately 600 watts, which is equal to 30 .
approximately 600 watts, which is equal to 30 lights.
to Vacuum cleaner consumes 160 watts, which is equa power consumes 200 watts or the equivalent of 10 lights. This size of motor will als? drive a chur equivalent of ectric

Thalent of 2 lights. The makers of some plants are inclined to discourage the use of electric irons as they draw off so much current using them with apparent success, at least there is n information to the contrary

Storage Batteries-The term is misleading as the electricity is not stored as the name might imply. The
action is chemical and the current is given off by chemical action. A storage battery consists of one or more cells. Each cell consists essentially of positive and negative plates, immersed in an electrolyte, the electrolyte consisting of a mixture of distilled water and sulphuric acid The more acid in the water the less depth the hydrometer would sink. This depth that the hydrometer would sink is shown on a graduated scale, and is designated specific gravity. As the discharge continues acid goes into the plates, producing the electric current and at the same time producing the compound of acid and lead called "lead sulphate.
A hydrometer is necessary
A hydrometer is necessary to determine the specific
gravity of the electrclite, or in other words to see how much the battery is charged. So be sure to have a hydrometer to test the cells. When fully charged, a reading of 1,300 will be observed, and when fully dis charged the reading will be only 1,150 . It should neve By sperific gravity we mean any substance compared with water as a basis water, therefore, is considered as having a specific gravit of 1, usually written 1,000 . An equal velume of concentrated sulphuric acid weighs 1,835 . The same things are must be taken in cold weather not tot the battery get disharged too low, as it will freeze mere reatity than it will when fully charged. Distilled water must
be used or trouble will be sure to follow. It seems hard to believe, but the expert battery man of a large aut) actuaty came into the shop filled with anti-freezin
solution and ansther had coal oil. It is high time that pecple who own such equipment would take the at realize that anything that is wet
storage bater

## THE DAIRY.

At the Kansas Holstein Breeters' siring sole,
head averaged $\$ 326.76$. H. H. Curtis, of Pulman, Wash,., recently disposed
of J. Jersers, including 7 small calves, fer an aworage
of $\$ 34.26$. Furt Wirthe for a total of osentli, sold by athe top prion at was
$\$ 625$; this figure being paid for the bull, Brilliant Scholar. Don't allow vernin to tornent the calves or soung
tock Four parts sementut to one part hellelerore sitite into the hair will destroy the lice. Verniin kictp stock,
atall in particular, untliritus. Major Dupont B. Lyon, of Sherman, Tweas, recently


 losely earliv in the spring there
pasture during the ent ire sescosm.

 The patient mhay be tound ber ayy part of the londy
 Chire should be taken to keep the stathe well ventilitecel.

to the milk flow and myy also cause the alves to tike cold. If stables are too warm there is a
cattle to perspire and go off their feed.

## A Banker Assisting in a Cow Campaign.

Raleigh, North Carolina, by the State dairy agents and bank officials. The banker of the town not only said he was in favor of any movement to help put more and offered to advance seventy-five per cent. of the purchase price of any cows to those who wanted to own one, as he believed that dairy cows were a sound invest ment for a both banker and rarmer. The campaign had rather a novel opening. The banker had a stall fixed a Jersey cow and her calf were kept for a day, and we viewed by 3,590 visitors who not only viewed the cow dairy had the privilege of hearing prominent men discuss that one in every six farm families in the United States is cow-less, and that there was no reason why some at least of these families could not feed and care for at east one cow. A good average cow would produce enough milk and butter to pay or her feed and leave a exhibit made an impression educational feature the gotten. The cow exhibit in a bank building brough people from all walks in life to see what was the idea of making a cow-stable out of a marble and bronze banking house. It was pointed out that the dairy cow, "foster mother of man," is likewise the salvation be possible for every bank manager to put may not exhibit in his bank building, many of the bank managers could do more than they are doing to assist the farmer kept on the farms the better it is for live stock that is as for the individual. Some of our Canadian bank managers might follow the step taken by the Raleig


Duchess of Norfolk
 and the farmer would be an advantage t., bath. Agri- properly packed in these packages. Alberta butter on
culture is remognizel as the basic industry and fundt- Sle in Ontario cities is no reflection on the quality of
mental to the life and pros, met many a tiller of the soil firds difficulty in getting operations. Wiould that thered were further the farm
similar disposition thankers of

## similar dis, osition to the one from Ralcigh.

Worth Consideration

Perhaps some of
of mill of milk yesterday, and some gave twenty- two: the
difference of three pounds in the day, a pound and a
half in the milking might casily he overtooked. In fact the smaller quanity might appear the larger on accoum
of more foam on top, and might easils pass as the larmer
 worlh consinteration By man could be a thousand

 Rwo ditterenf primed torms arte avialable for free dio




## Alberta Butter in Ontario.

Ontario people are prone to think of the Western Provinces as being devoted almost entirely to grain growing. However, mixed farming and stock raising are being practiced throughout the West. Alberta in
particular is fast becoming noted as a dairying country pat is only a few years ago that Alberta furnished market for Ontario butter, but s) rapid has been the growth of the industry in that Province that butter from Alberta is now competing with Ontario luutter on the world's markets. That is not all, Alberta butter is
being s)ld in the midst of one of Ont being s sld in the midst of one of Ontarin's best dairy butter. Djes this mean that Ontario dairymen are unable to meet the home demand for this particular product, or can Alberta dairymen produce cream at ess expense than the Ontario farmer? Whichever may sale by Western Ontario produce men.

The grain of the Alberta butter so
Ontario store was excellent and the flavor would score high. The product was made from pasturized cream and was first grade. It did not contain quite as much moisture nor as much salt as is found in the average
Ontario butter. Dry, fresh butter, is favored by many consumers, although fairly salty butter is preferred by others. The texture was firm and fine and while the color was not high it was uniform. A system of grading of cream and butter is followed in Alberta which has
been responsible for the uniformity in quality of the been responsible for the uniformity in quality of the
product turned out, and has aided in putting the creamery industry ori a firm basis. The number of cows kept has increased rapidly during the past few years as it has been found that the dairy cow utilized the product of the field to good advantage. In Ontario the cow has proven her worth but her product has not been given
the care and consideration that it deserved. Lack of uniformity in quality of dairy and creamery butter has not given Ontario butter as secure a place on the market as they might have had were a grading system adopted
years ago. However, the step has been taken and there is every. reason to expect that ere long the product of is every, reason to expect that ere long the product of
Ontario's many creameries will be uniform in color, $t$ exture, flavor and salting.
This will materially aid both the home and export trade as ence a grade with merit
has become established, customers look for that grade or brand. Grading of cream
and butter hashelped Alberta and butter has helped Alberta
dairymen and it will greatly dairymen and it will greatly
benefit the dairymen of On tario. When an article is purchased on its merit, an effort is made to have it as
high-class as pessible. When creamery owners pay for
cream according to quality, they will get better cream from the farim, and when
butter is sold on grade the creamerymen will bend every
effert to have as much as pessible of their product grade high. Alberta butter
has won its way into the markets of the world by its quality, and quality has been
sccured by care in handling cream from the time it is
produced at the dairy until produced at the dairy until
it is made into the golden

The Milking Machine
The cows at the Nova Scotia Acricultural College
 It new rewords for minik prorsuction have been made ind the rerage production of hhe hend has been material. Hill reasen. Mery litele trouble has been experienced in Whing the cows accustomed to the action on the mat viee downist her milk. This has only ocuurred in one Thi. Wh:ifers take to to the machenty cows in the two years Thc haifers take to the macchine every kindly and we have (), eration of the machine calls for alout the same
 Ine gas line engine. We have uuse a a two hose-power Ulistactor) tor Any matate three single untits and iound susel of orillinary inteligence, and interested in the sullis. milking by hand will woon learn to do been accustomed work with In the two and a half years we have been using the montical milker we have never known any harm of Cleaning the machine is not a difficult operation hut must be properly done every day. It requires some

May 2, 1918
in warm water containing 8 some was ing powder, and
since they cannot be sterilized with heat they should be placed after cleaning in an antisz,2tic solution an left there until milking time. The solution we use is one ounce of formalin in three gallons of water. This tubes and cups sweet and clean. In some places there is a law against the use of formatin, and in that case the use of calcium chloride is recommended. The tubes are thoroughly rinsed with clean water by sucking
it through them just before beginning to milk. it through them just before beginning to milk.
From reports of the Central Experimen Ottawa, it appears that there are several satisfactory machines on the market

John M. Truema

## Plan For a Full Silo Next Fall.

 trow years ago scarcity of seed corn would have brought forth little comment from farmers over the greater portor foed in the fall, but on many fare or at all was grown, and an entire field devoted to this particular crop was rarely seen. The men who originated the idea of canning the corn crop, so as to preserve it and give succulent feed of high quality during benefactors to agriculturists than they were greater with at the time. In some localities there appears to have existed a prejudice against silage as a feed. It has been a case of Show me, and the number of are gaining in favor on their merits.Dairymen were the first to realize the value of the silo, and it is not uncommon to-day to see two or three
silos on one dairy farm. In a favorable acre of corn will furnish a larger amount of fodder than can be produced on an acre sown to almost any other crop. By means of a silo the crop can be stored in a form that is ready to serve to the stock at any time. Corn is the universal silo crop, and is one of the cheapest feeds grown on the farm. Were it not for corn silage to serve as the foundation of a ration, many account of the sacreity of feed reduced in numbers on many stockmen. Southern Ontario and the Northern many stockmen. Southern Ontario and the Northern
States have furnished the bulk of seed corn for Ontario last summer and fall resulted in very little corn that would germinate a high percentage being husked.
Frest nippel the crop before it was cut, and then, the unfaw rable weather for drying left the corn with to
much meisture when the severe winter weather set For a time it looked as though no seed corn of any
kind for silage purpeses would be available. However, arrangements have been made whereby a supply of tates. It may not be of the variety which Southern accustumed to plant, but a large bariety which we are produced even if it does not mature. The bulk of it
will be of the Mammoth Southern Sweet type, and we without crin for a year, Many have grown the Mamticularly heavy yeelder. More cand be grown to the acre than of some of the early-maturing varieties.
If the sasom is favorable it will mature sufficiently to
make coarse stalks, and consequently is not so suitable fory feeding in the fall as some of the other varieties. . How ever, this dces not matter so much when it is ensiled.
If sown fairly thickly in rows a little finer stalks are produced than if sown thinly in hills. The quality produced per acre partially. makes up for the lack in Corn is not the only crop that can be ensiled. In
ections of the Dominion, not particularly suitable for has brewing of corn, a mixture of oats, peas and vetches esults loth as to yield and foeding qualities. This not a success. Hewwever, it witl also do well in other
parts. of the Dominion. As high as eleven tons of this
O. IP the Nova Scotia Agricultural College. Silage from this contains a little higher percentage dry matter than
does corn silage, as will be shown by the following

## 

| Pry matter |  |  |
| :---: | :---: | :---: |
|  | ${ }_{23}^{2.31}$ | 2.37 10.33 |
| ${ }_{\text {ata }}^{\text {chat }}$ |  | * |

There is scarcely as much work entailed in producing
The po (). P. V. silage as in producing a crop of corn The land ho. Pould. silage as in in producing a crop of corn.
one of thess condition, and it is is
around trist crops to be planted in the spring. Sown
the outs harvest carly in August or at the time when get too rive, comning into the dough stage. If the one wits The there is morc or lese wor pack well in the silo. The secding for this mixture is or whase by mould

 grown on the Demonestro bunder. This mixture is als Ontario, , the Demonostration Farm ar Monteith, New filled a silo 11 feet three arres of this shap twoter and the thirds appearance of this silage was simitat to terdinany siluce.
 very lond of it. This shows shat tit is a sthage crop that which might be rensilover, and alfalfa are other crops which might be ensiled with more or less other crop
results. The clovers are cut pesults. The clovers are cut at the regular time and put in the silo while, still fresh. This is essential in
order that the material will pack firmly and exclude the air. Some who ensiled the sweet clover that they could not harvest for hay last year, owing to the wet weather, reported that the stock cleaned up this form of silage and maintained their ordinary milk flow durensiling the clovers if they can be cured for hay, but with unfavorable weather conditions cured for hay, but with silo furnishes a means of saving the crop.
Second-growth clover and alfalfa are
ready to harvest at a time when the weare frequently Some have ensiled a time when the weather is catchy. in a load of the clover to every corn. We have seen some of the silage resulting from this mixture, and it looked very good indeed, and was relished by the stork. The corn seemed to qid in preserving the rl
ensiled alone.
While the seed corn for silage purposes of varieties and quality that we have been used to planting may not e available this spring, the Mammoth corn will prove will, no good substitute, and under favorable conditions would be secured from some of the of fodder than mature under Ontario conditions. Do not let the silo go empty next fall just because you could not secure the kind for of corn you are accustomed to. Secure has been used to having a supply. The dairyman who the winter's feeding operations scarcely apprecintes the full value of a silo full of feed until he is forced, through no faut of his own, to do without this important succulent fodder. Plant the usual acreage to corn if seed is any variety that will grow can be pur
s one of the most economical crops grown.

The Price of Cheese to be 23 Cents Per Pound
Editor "The Farmer's Advocate": of members representing the British Ministry of Food, the Dominion Department of Agriculture, the Canada Food Board, the Producers and the Trade, held a Arthur J. Mills, representing the British Ministry of Food; J. A. Ruddick, representing the Dominion De partment of Agriculture; Dr. Jas. W. Robertson, repre-
senting the Canada Food Board; Messrs. Jas. Donaldson. A. Gerin and James Alexander, representing the ProMr. Mills

Mr. Mills stated that the British Ministry of Foot for them in connce Dairy Produce Commission to act Canadian Cheese, Condensed Milk and Butter of the make of the season of 1918. The price authorized for at Montreal; $221 / 2$ cents per 1 b . for No. 2 grade, and 22 No. 3 grade.
After fully considering the whole situation, the Commission unanmously approved of the proposil.
A committee was appointed to work out the question of a relative price for condenser milk. The object in competition will arise between the manufacturers of the patrongae of dairy farmers. It is expected that the price of condensed milk will be determined and announced in the near future. The price for butter will
be arranged as soon as there is a surplus available for be arranged as soon as there is a surplus available for
export. It also will be on a basis of parity with the prices for cheese and condensed milk. The chicf advantage to the cheese industry of Canada from this arrangement is the assurance of a regular put, regular shipments even under the present extreme
shortage of tonnage, and the financing of a trade of shortage of illons of dollars.
about 40 mill
The only alternative method of disposing of the cheese of Canada would be to leave it open for the
British Ministry of Food to ppurchase such quantitics as they would require from time to time, and that with-
out any assurance that they would purchase the whole quat any assurance for export. At the present time,
quantity avalable fore

the Allied buyers are being offered United States cheese | of this season's make at 22 cents f.o.b. New lork. |
| :--- |
| Now that prices have been arranged, it is hoped | Now that prices have been arranged, it is hoped

that financial arrangenents will shortly be completed to
enable the Commission to accept delivery of new season's

## POULTRY

## Open Front Henhouse.

Weidereral years agoo a deecription was siven of the Mredumod henhouse, I gave the paper to one of my thenhouse this spring. At present we bave no proper plece for our fow and we realize that in order to hove surcess with paultry it is necassary to give them the
 Ans-The open-ron house designed and recom. mended by Prof. W. R. Graham, of the Ontario Agri Thetural College, has iven remarkably good resulta The pen 20 ny 20 cert accommodrtes 100 hens, and from the cold. It is constructed of others he do not suffer circulate to cause a draft and yet there is fresh air light and dryness in the pen the year around. These therefcre to he essential oo the health of the birds and tronefcre to high egg production. The original open
ront house was 20 by 20 feet on the ground, 4 feet 6 inches high at the back and 3 feet high in the front. ridge is 7 feet high, with a door in the east end and a door 5 feet 4 inches by 4 feet $21 / 2$ inches in the west end the roosts are placed at the back of chicken wire, and house at Weldwood has a slightly different roof. The north part is raised at the ridge a sufficient height to deep. This alteration gives extra light in the pen and permits of the sun shining on the roosts and dropping luring the sash is on hinges so that it can be opened ion to the pen. Four feet is also added to the pen fo the purpose of having somewhere to store feed and also
a place for sitting hens. This is partitioned off from th main pen by a substantial wall. Nests are instam th this wall and can be drawn into the feed room. This is a convenience in that a brooding hen can be left on her original nest and yet not be disturbed by the other fowl
However, wa do we believe there would be less trouble from hens eating their eggs were the nests darkened somewhat. Being able to slide the nests into the main pen in the morning when the hens are fed and drawing them into the feed room at night prevents the hens roosting on the nests,
which tends to keep them cleaner and more sanitary than if they were stationary. The roosts arranged at the back of the pen are made in the form of a frame which is hinged to the uprights in the wall so that the $/$ may be amount of material is required when. A considerable of this size, but second-hand lumber would be just as good as the new. We have found th? prepared roofing very satisfactory. The floor is of cement, but on high and dry ground an earthen floor would be all right. even in the most severe weather. While the the frost ture of the pen is low, the atmosphere is dry. This is possibly one reason why the combs and wattles of the blowing from the sen frozen. When a direct wind it解

## HOR TICULTURE.

Arsenate of Lime as an Insecticide.
During the last few years the Entomological Branch
of the Dominion Department of Agriculture has been devoting increased attention to the study of insecticides, with special reference to the possibility of securing cheaper materials. One of the first results of this study A pamphlet has been recently issued by the Ento mological Branch explaining in detail the nature and make it plain districts or provinces where the experimentalists in hose districts have not found it safe enough to be Caesar, in Ontario, is not yor instance, Prof. Lawson of arsenate of lime without limitation, so it ise the use hat climatic or natural conditions may so differ in the horous provinces that arsenate of lime should be insecticide. However, we quote liberally standard pamphlet issued by the Entomological Branch, in order hat fruit growers may become acquainted with the under certain conditions which they know will guarante good results. In the following paragraphs may be found detailed information concerning arsenate of lime. a

Where Arsenate of Lime is Used.
At the present time arsenate of lime, which should
be clearly distinguished from arsenite of recommended as a spray for apple, potatio and only It is not regarded as a safe insecticide for trees havin tender foliage, such as plum, cherry or peach, nor do only in conjunction with lime, Bordeaux alone, but sulphide sprays, as described later. During the or sulphide sprays, as described later. During the years mercially and experimentally in a variet although the results from its use have not been uni

## THE FARMER'S ADVOCATE

Founded 1860
such chemical change taking place bet ween the sulphide and the poison as would result in injury to foliage. added to lime-sulphur a certain amount of double decomposition occurs resulting in the formation of lead sulphide and crude arsenate of lime, five per cent. of which is soluble arsenic. This reaction may precipitate as much as 35 per cent. of the sulphur from the solution arcead sulphide, the black "sludge", with which the
orchardist is familiar. Arsenate of lime, on the other hand, does not cause any perceptible decomposition or change in the sulphide composition, and the standard brancescontain much less than one per cent. of soluble prevents the formation of soluble arsenic compounds. from arsenate of lime.
Sulphur" and "'Sulfocide", solutions, such as "Soluble Sulphur", and "Sulfocide," arsenate of lime is the only commercial poison that can be used without damage
to foliage resulting from the formation of soluble arseniage compounds.
On account of the apparent increase in the toxic sodiue of arsenicals that results from the presence of sodium sals, it has been found desirabie to decrease the to the proportion of one-half pound of sulsente sprays to forty gallons. It has been found that the sodium sulphide solutions do not adequately protect the arsenate ing where the air, and that in order to eliminate yellow combination is used for the four whr arsenate of hydrated or water-slaked lime must be added to eact 40 gallons, although it may be pointed out that injury
has been practically eliminated by using five pounds of has been practically eliminated by using five pounds of
lime to each 40 gallons in an orachard that was not wime to each
The Use
Mixture.
Arsenate of lime has given the best of aliratio
and no leaf injury when used as a spray for the a apple in conjunction with Bordeaux mixture made according to of its adhesive qualities, arsenate of lead assists the fungicidal action of Bordeaux mixture more than arsenate of lime. On the other hand, the difference in cost and
greater convenience are both in fave of

Formule for Use of Arsenate of Lime.
As a potato spray:- Arsenate or lime: $1 / 3 /$ pounds
As an apple spray: The following proportions are prac
tically equivalent on account of the effect of the fungicides on the action of the poisons:-

With Bordeaux mixture: 1 pound of arsenate of lime to 40 gallons.
lime to 40 gallons, adding 5 pounds of hydrated or water-slacked lime to th "Soluble Sulphur" and "Sulforid" pound of arsenate of lime to 40 gallons,
adding 10 pounds of laked lime to each spray.

## Cost of Arsenate of Lime Compare

 With Other Poisons.When the cost of arsenic is taken into consideration proaches in any degree arsenate of lime im cost as
potato poison. Paris green and arsenate of lead are at the present time, costing about two-thirds more than
arsenate of lime, while arsenite of zinc is costing about

## FARM BULLETIN.

New Orders Re Exemption and Leave of Absence
ing the powers of the Leave-of-Absence Boards, went to press new orders have been issued which cancel those appearing on page 796 . Under the new regulations, men in any class under the Act are subject to call, and cease from and therefore granted to any man shall ordered so to report, and no claim for exemption the is se entertained or considered after the issue to him of grant leave of absence however, that the Minister may of the death, disablement or service of other mereson If the same family, while or service of other members In regard to the leave of absence to draftees, several
-lauses of the new order are important. Ife quote from L Leave-of-Absence Boards will be immediately
atolished in all listritc

## made on behalim for a feave of absence, without pay,

made on behalf of a man who reports force, with thout pas ordered by the Registrar, on the ground of death, disablement,
or service of other members
ing the Hish Seas, Great Britain or Ireland) will, if it Category " $A$ ", or mot, is the enly whethaining son in militiary afo, be immet istelye only remaining som of Commanding the District for transmission to Ofilet Headquarters
such cases a man may be granted provisiona feave of absemce, without pay, on the authority of th instructions fram M ion is made before the man is issued. his the applica quipment, no such issure will be made to him.
4. If a man is in Category "A," no claim for leaw previously granted will be for exsideredsion of such heave on the ground mentioned in paragraph unless it is baser Leave of absence will he conshder. ategories lower than "A," regardless of cer men in granted or claims made for same, and the grounds upo Which application is made will determine under what Any member of the Considered
in Canada, in a category lower than "A." who Force temporaribl spared from military duties may be grantel leave of absence, without pay, on the authority of the
Officer Commanding the certificate from the Agricultural Rreprestoduction of a district appointed by the Department of Ave for the at Ottawa, to the effect that the man concerned is an efficient farm laborer, whose services are urgently re quired on the land. The first leave granted will be und the 1 ath dray of July, and this may be again exRepresentative issures a cortificate to the Agricultural man concerned has been engaged in agricultural work during his first lave of absence, and that his services
are still urgently nended are Leave gimed
may be extended grantil the under C. E. F. order No. 355 production of a certificate from the Agricultural Repre sentative, provided the man is not in Category "A.' This leave may be again extended for a further three
months.

## The Limitations of the Press.

An Order-in-Council, dated Tuesday, April 16, im. poses certaim restrictions on the Press of Canada which the reading public should know and understand. Free. dom of speech and liberty of the Press have long been symbols of Canadian democracy, but the recently enacted Regulations restrain editorial comment to a rather startling extem. The various publications of this Dominion havr, as a whole, performed a remarkable service in disseminating useful information concerning the war and placing the facts before the people in such whole-heartedly da realied her duty and threw herself Now, in onderty and determinedly into the confict. Now, in order to stitic a few recalcitrants, that should have been prosecuted long ago, the following orders nd and which will menessarily ban even constructive criti-

Order and Regulation.
on offence:
(a) To print, publish or publicly express any acverse or unfavwrable statement, report or opinion or purposess for which Canada or the United Kinglom Great Britain and Ireland or any of the allied nations intered upan or prosecutes the same, which may tend o arouse hostick feeling, create unrest or unsettle or (b) To print
or unfavorabrele statement, report or eppress any adverse the action of Camada, the United Kininon concernin Britain and Ireland, or any allied nation in prosecuting
(c) To primt or give public expression or circulation
any fals staterment activities of any department, brancc or the work Public Service or the service or activities of Canadas Military or Naval Forces, which may tend to inflame Qublic opinion and thereby hamper the Government of
Canada or prejudicially affect its Military or Naval (d) in the prosecution of the war
ment To print, publish or publidy expross any state in any way dotrapt from the united effort of the people (e) To prime, prosecultion of the war
f, or to purport, to describe or to to refer express any report at any secrect session of the House of tome proceedina held in pursurance of a resolution passed by the syid House or Senate, exxepp such report thereof as may be
officially communicated through the Director of Public Information.

## (f) Witithout lawful authority to publish the con-

 tents of any confidectial document bublish the conany confidential information obtained from any
Governnent Devartment or ation obtained from any co Hi
2. Any person found guilty of an offence hereunder shall upau sumumary ron suction of an liable to to freune not exceeding five thouksand dollars ( $(55,000.00$, or to im
prisonment for mot more than five years, or to both fine

Week En

Toronto (Unic
Montreal (Pt.
Montreal (Pt.
Montreal (Ea Montreal (E Winnipeg
Calgary.
Edmonto

## Marke

 Toronte ( Cattle receinIorty-ine hun was not as gooce number of hea
nd the offerin and bue oferin everi were the te rere operating vere bought Were shipped
of theses oads and three "
 have been paid
should allow the butcher cattle a
notwithstanding ing the winter
opened on Mond mand, and qu of the previous w
thirty hundred nearly all gone

May 2, 1918
THE FARMER'S ADVOCATE
Toronto, Montreal, Buffalo, and Other Leading Markets

Receipts and Market Tops.
Week Ending April 25

\author{

 calves

| Week | Same | Week | Week | me | Week |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ending | Week | Endin | Endi | Week | Ending |
| Apr, 730 | 1918 | Apr. 18 | Apr. <br> 88 <br> 800 |  |  |
| 2,313 | 2,900 | ${ }_{3}$ | 816.00 12.50 | 115.00 11.50 | 818.50 12.00 |
| 2,680 | 2,391 | 2,484 | 12.50 |  |  |
| 63 | 65 |  | 16 | 13.50 |  |

Reveip sheep

| $\begin{gathered} \text { Week } \\ \text { Ending } \\ \text { Apr. } 20 \end{gathered}$ | $\underset{\substack{\text { Receipts } \\ \text { Same } \\ \text { Weet }}}{\substack{\text { N }}}$ | $\begin{aligned} & \text { Week } \\ & \text { Entivg } \end{aligned}$ | $\begin{gathered} \text { Wop } \\ \text { Week } \\ \text { Endity } \end{gathered}$ | Price Ciood | ambs |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Same | Week |
|  | 1917 |  | Apr. 25 | 1917 | Ampris |
| ${ }_{18}$ | 291 | 76 | \$21.50 | \$15.25. | 86ivo |
| 15 | 48 | 28 | 17.00 | 15.25 | .ht14,00 |
| 29. | 65 6 | 25 | 17.00 <br> 8.00 | 15.25 | +14:00 |
|  | 270 | 100 |  | 13.50 |  |

CAI.VES

HOGS

per humedred, which was about 81.00 per the same grade of calve prices paid for vious week. vious week.
Few sheep and lambs were on sale. Prices were unchanged since the previous week.
Hog prices remain around $\$ 21$ per
hundred, off cars, and while there are home predictions of an easier market this does not seem to be borne out by the itght receipts of hogs at the present time Pr. St. Charles.-Of the disposition from the Yards for the week ending April
18th. Canadian packing houses and local butchers purchased 3,083 calves, 46 canners and cutters, 61 bulls, 619 butcher cattle, 1,274 hogs and 28 sheep and lambs Canadian shipments were made up of 38 were no shipments made to United States points during the week
The total receipts from January lst to April 18th, inclusive, were 9,759 cattle 3,725 cal $\mathbf{0 , 4 7 4}$ hogs and 4,698 sheep, received during the corresponding period of 1917 East End.-Or the disposition from the Yards for the week ending April 18th
Canadian packing houses and loca Canadian packing houses and ocal
butchers purchased 1,560 calves, 447 butcher cattle, 778 hogs and 25 sheep and lambs. Shipments to United States conisted of 703 calves.
The total receipts from January 1st to April 18 th, inclusive, were 8,922 cattle,
12,260 calves, 11,653 hogs and 4,848 sheep; compared to 12,134 cattle, 13,846 calves, 15,733 hogs and 6,020 sheep, received during the corresponding period o

## Buffalo.

Cattle.-With receipts rather liberal last week, trade on all classes of steers
was a full half dollar to seventy-five week, making the Buffalo market the highest within its history, shipping steers selling up to $\$ 17$ to $\$ 17.25$, with Canadian rices ever paid on the Ruflo, highes Best heavy fat cows and heifers ruled full quarter to half higher, best heifers selling up to $\$ 14.50$, with best fat cows rades of butchering cattle commoner grades of butchering cattle were lowe a quarter higher, best ranging up to $\$ 16$, with yearlings bringing that price. Canner and cutter stuff ruled about steady Stockers and feeders were higher, bulls
sold a full half dollar higher on milk cows and springers ruled about steady. Offerings for the week totalled 5,900 head, as against 3,650 for the pre ceding week, and as against 4,975 head Or the corretions:
Shipping
prime, $\$ 16.50$ to $\$ 17.25$; fair to good, orime, $\$ 15.75$ to $\$ 16.25 ;$ plain and medium, $\$ 14$.
1o $\$ 15 ;$ coarse and common, $\$ 13$ to $\$ 13.50$. Shipping
15.50 to $\$ 16 ;$ fair to good, $\$ 1.50$ to
$\$ 15.25 ;$ common and plain, $\$ 13$ to $\$ 13.50$ Butchering Steers. Choice heav, $\$ 16$
o $\$ 16.50$; fatir to good, $\$ 15.25$ to $\$ 15.75$. st handy, $\$ 15$ to $\$ 16$; fair to grod, $\$ 1$ earlings, choice to primen 815.25 to 813 ; tockers and Fecders. Best feeders, 89.75 ; best storkers, 89.50 to 810 ; fair to
rood, $\$ 8.75$ to $89.25 ;$ common, 87.50 to $\$ 8$.
Hogs. cipts, were quite a bit lower last week-
Ionday, when the decline figured ansWere from a dime to twenty-fice cents,
heary hogs sild from 818.2 .5 to 15.50 ,

## CRANO TRUNK RAILWAY

A Suggestion for
Your Summer Holiday

## This Year

Algonquin Park highlands of ontario An ideal spot for your Summer Va-
cation midst wild and delightful scenery

## Excellent hotel service at the

 Highland Inn Tult information from any Grand Trunk Ticket Agent or C. E. Horning,District Passenger Agent, Toronto

Do Your Banking by R. F. D.
Make the mail your messenger ; and save yourself the long rides to town
Deposits may be made-butter and cheese cheques cashed-money withdrawn-jus as easily and safely by mail as in person.

Write the manager to tell you all about this convenient plan of Banking By Mail - or call in and have it explained, the next time you are town.

## THE MERCHANTS BANK <br> Head Office: Montreal. OE CYNAADA Established 1864

 with its 102 Brancheos in Ontario, 32 Branches in Ouebec, 19 Branches in Manitoba21 Branches in Saskatchewan, 33 Branches in $A$ lberta, and 8 Branches in British Olumbia serves Rural Canada most effectively. OR CALL AT NEAREST BRANCH.

| $\$ 22$ to $\$ 22.25$, with one bunch at $\$ 22.50$ selling at $\$ 19$, few $\$ 19.15$; Tuesday's an quality was not very good and none sol above $\$ 18.75$, and Friday the bulk lander at $\$ 19$. Cull lambs without heece went from $\$ 16.50$ down, shins going as low a yearlings brought up to $\$ 17.25$, wethe ewes from $\$ 14.50$ down. The past week' receipts totaled 12,700 head, as agains 13,300 $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ <br> Toronto Prod uce. $\qquad$ $\qquad$ |  |
| :---: | :---: |

 chickens, ordinary yed, 270, por iber bowi
$31 / 2$ libe and under, 25c.
 over, 32c. per lib; duckkings, joc. per llb. turkeys, young, 30.. per lis. turkess, oldi
25 c . per 1b. These 25c. per th. These are the live..weight
prices now being maid prices now being paid to the protucer?
Potatoes.
Owing
to secdi preventing theme coming in poptateos had
 81.60 and 81.65 per hag, and N. B. Deceat
wares at 81.75 per bag.
Cobbler and wares at 81.75 per bag. Coiblier and
Green Mountain seed potatocs selling at $\$ 2.25$ per bag.

## Montreal

Dresed Hogs. - The market readily aborbs at frim prices all the dresed
 sold at 29 cents to $291 /$ cents per lb.
Eor gxss had gone below that the market Ior eggs had gone below 4oc. per dozen.
but no confrimation of this was found Instead, it would seem that the price was frm at around 41c. to 42 c . per doz, for straight-gat hered stock and that selects rought about 2 c c above these prices. on looks as though packing would go case. lower figures are unlikely
Butter.-The time of the season has now arrived when lower prices for reamery are likely to develop. Since a weel
ago, the price of creamery han ago, the price co creamery has undoubted
1 y allen a couple of cents The now increasing, and quotations were 491/ cents to 50 cents per lb: for finest, while fine was about one cent under theses prices.
Dairy butter ranged from 42 cents to 45 cents per lb . Chese--The announcement is mad the price of 23c. per lb, has been agreed Mpon for No 1 grade, f o. b. steame.
Montreal, being 114c. higher than 1977. Gomewhat during the week oats decine Canadian Western and extra No. 1 ieed Were quoted at 81.02 ex-track, Montreal
No. 1 feed Dein. $\$ 10101$ No. 1 Ieed being si.003: No. 2 teed
$98 c$, and Ontario No 3 vite si can orn is $\$ 1.70$ to $\$ 2$ wer best Amer Flour.-The percentage in Manitoba flour having been increased, the price
was correspondingly reduced, and was was correspondingly reduced, and was
$\$ 10.95$ per bbl., in bags, f. o. b. cars Montrall, and 10 c . more delivered to bakers. Ontario winter wheat was steady at 811.00 to 811.50 per bub., in bats.
ev.store.
Rve flour was firm at 816.50 ex.store. Rye four was firm at 116.50
per bbl. and corn four is s s1300. per bbl., and corn four is 81300 .
Millfeed.-Bran was $\$ 350$ \$40.40: ced - bran was res..40 and shorts including bags.
 ton , .0 .3 being $\$ 15.50$, and low grades
88 to $\$ 10$ per ton.
 to 33c. for red clover, and 23. to 266 . Or alsike, fo. o. b, Montreal.
Hides.-The marke
Hides.-The market las advaned b5c. and 48c. per Ib. Spring lambs were


 Stor scrap fat; sc . for al

Chicago
 Ons and heifers, 87.75 to 813.80 ; calves,
77.50 to $\$ 13.50$.
.



Cheese Markets
yacinthe, Que, 203 _c; Belleville, Ht Montreal, finest westerns secesil)
$\qquad$

In Hushed and h The glad, oont
Where sunti Sisters swift at
Seem to trea Seem to trea
Like flowers st Like flowers st
Heads turn Beauty, blood
Blending in
Eternity's to-Eternityis half-1
In this

[^0] June 11.-D)r. A. A. Farewell, Oshawa,


In Hospital.* Hushed and happy whiteness, Me mas ontented cots, The glad, contented brightness
Where sunlight falls in spots.

Sisters swift and saintly Seem to tread on grass;
Like flowers stirring faintly Like fiawers stirring aint thy,
Heads turn to watch them pass.

Beauty, blood and sorrow,
Blending in a tranc
Eternitys to-m
Eternity's to-morrow
In this half-way house of France
Sounds of whispered talking
Thabored, indrawn breath;
dear familiar Death.
"The Glory of the Trenches", John
The Y. M. C. A. and the Canadian Forestry Corps.

$0^{N}$many a track of forest land laid waste by fire is to be found grow-
in a crimson flower. This plant is in a crimson flower. This plant is owing to the fact that it is said to spring Another healthy growth has sprung to life in the track of the awful conflagration in Europe to-day, and it is known as the
Red Triangle, the crimson sign of the Y. M. C. A. . Wherever the Khaki goes, the Red
Triangle follows. In some cases this Triangle for thews, In some, cases this
insignia of comport and cheer for the insignia of comfort and chere for the
troops keeps almost abreast of the troops keeps almost abreast of the
changing columns. At Vimy Ridga, for changing columns, At Vimy Ridga, for
instance, the " $Y$ ", man was on the job instance, the Mo man was on the job
with his coffee stall before the place was
consolidated serving biscuits and consolidated, serving biscuits and chooo-
lates to the weary men. The work of the lates to the weary men. The work of the
Red Triangle is not confined to training camps and bases, and there are dozen trenches, some of them only 100 yard from the German line, and where the
secretarics ane secretaries are under continuous shel
fire. Ten davs after the Canaious beg fre, Ten days after the Canadians began
their Somme offensive, the Red Trianglo had thirty-seven centres operating on the battlefield. The Y. M. C. A. was given the definite responsibility of caring for of men came in they were cared for by hot drinks. secretaries, According to one seniur Medical Officer, this service was the means of saving hundreds of lives.
The work of the Y. M. C. A., however. is not confined to the war-stricken areas
Its Secretaries and their dugouts ara be found in France and Flanders, Messpotamia and Palestine, in every field
where the allied armies Where the allied armies are fighting; but
they are also very much in evidence with the non-combatant forces. From end to end of Great Britain are
the Camns of the Canadian Forestr) Corps. These are nearly fifty in number has in mest of them the Y, M. C. A
has
and and qualified man, and there are ordained supervis.l among them. The staff is 1. M. C. A. Headquarters, who spend most of lis time roing from camp to cami The men in the camps, while not calle! wreme are the rigors and risks of act talal
 com, Mincuise would le emploved in danges wre not extraordinary, still they
amps are for the most part isolated, and tess and homesickness the of lones me mo one foreign strand than in another "Till the boys come home", the sign of the Red Triante boys. At some lumberjack, pining for countrie', can find American and Canadian Magazines. He can purchase, for a nominal rate variations of camp diet such as hot and cold drinks, sandwiches pastries and cakes. Any profits are paid them in the main to defraying expenses connected with the Y. M. C. A. work. make frequent visits to ne nearest towns the social and entertaine camps, and include cinema shows and dances. Checkers, chess, dominoes and letter-
writing fill many an evening's lisure, writing fill many an evening's leisure, and classes where men may lened there are that will make them more effficient in days to come, when the sword is sheathed and the battle flag is furled.
Over two hundred men in different units are taking specially selected courses related to forestry work. For this a small fee is charged, and the balance is divided between the Forestry Corps Headquarters
and the Y. M. C. A. Classes in Englis and the Y. M. C. A. Classes in English
and arithmetic are also conducted by and arithmetic are also conducted by are in sufficiently close proximity to town or village.
Amongst the most enjoyable and best
aftended functions at the Hut are the the song service in the morning, and latter is a gervice in the evening. The the men choose their own hymns the singing is most hearty.
In what light Forestry Cight the men of the Canadian Red Triangle is seen the work of the that throng the building large numbers making full use of the privileges provided by Bre Officers estimate was expressed by Brigadier General McDougall, Director Writing to Lieut.-Col. Gerald IW Birks the General says:--
"This work of yours which is educational, inspiring and entertaining, has, I feel sure, helped us in our production, because
it has bred in the men a healthier outlook on life in general, and thereby been the means, indirectly maybe, of stimulat ing them to greater efforts.
Touching the
intimately on their spiritual these men so physical sides, the work of the Canadian Y. M. C. A. has earned the ever-increasing gratitude and unstinted support of all who would see, not only honor and glory Armageddon is being waged, but who also hold that no service, no sacrifice is too great to render the men who by their supremely unselfish labors are giving Canada a "place in the sun", and a
foremost seat in the councils of the great ivilized nations of the world The people of Great Britain have shown
lively interest in the Canadian Forestry Corps, and although the men of this unit are noncombatant, their big contribution to the war is recognized and valued most highly. The accompanying illustration
shows one of the 30 Canadian Foreatry Camps in the Old Country, in orestry which the Y. M. C. A. has its "hut" In the picture the "Y" building is seen
$\qquad$

Some Vegetables Worth Knowing
N OST people get into the habit of nips, onions, lettuce and cucurrots, parsthe staples. But there are several other vegetables that are well worth adding oo the list, not only because they are toothsome and valuable foods, but because they add interest to the garden.
Of these a few of the best are given below: Artichokes.- Most people look on Jerusalem artichokes as a pest even going so far as to try to get rid of
them. True, if allowed to grow past the second year they may become a pest because of the many sprouts they send up, but this may be avoided by digging up the tubers either in fall or spring and storing them in sand in the cellar until value to the potato, and most people find them very palatable if cooked propery. Moreover, the plants are not troubled by insect pests, and the leaves and stalks the tubers of the artichoke become very small and knotty, but when put in suitable soil and cultivated as other garden rops they grow to a large size. Artia sandy soil, well-drained, to which enough humus has been added to make it rich. Plant the tubers now, and, after a few early cultivations leave the plants to themselves except to take of the
flower buds if extra large tubers are desired.
Scarlet Runner Beans.-In Canada "scarlet runners" are grown almost solely they are quite popular as a vegetable as they are equally good when cooked young, as "green beans", or when ripened The garden fence may be covered with consideration when the garden-space, a limited. In fall the roots may be take up and stored in sand in a frost-proo cellar, care being taken that they are no Brussels Sprouts.- Brussels sprouts caste, when cooked, something like解 among the hardiest of the cabbage family being better after a cublage family, so may be left growing in the garden until wher sets in. The sprouts grow about tuft of leaves which should be broken off when the sprouts appear. When
removing the sprouts for cooking knite should be used, and as much of the heel left as pessible for the starting of Sow very thinly in a seed-bed, about half an inch deep, and transplant when When transplanting fertilize with liquid manure, and weekly for 3 or 4 weeks about the roots in the cellar, keeping the Cwiss Chard, Spinarth Beet, Asparagus Beet, etc., is grown for its leaves, of which the eaf portioms are cooked as greens and
the thick stalks and midribs as asparagus.
It the laber, as when cut new leaves grow up
rapidly. It is wery hardy and will stand
liquid manure from time to time during the season. The plants should be thinned from time to time (and used) until finally winter approaches they may be lifted with earth about the roots and stored used.
Garden Cress.-A peppery flavored plant that is liked with bread and buiter runs to seed successive sowings should be Kale 1 .
Kale.-A very hardy plant of the
cabbage order, which is not cabbage order, which is not. good until garden after winter hasset in. Cultivatelike cabbage, feeding at intervals with liquid manure. Breakdown fower-stalks as soo as they appear. A strong, moist, rich Oyster Plant
the roots which may be cooked in variou ways. The plant is hardy and easily grown. Grow like parsnips. May be roots may be left in the some of the spring. Grow in deep, cool, rich soil, not recently manured.
Winier Radishes.-Sow thinly in May or June and thin 3 to 6 inches. Cultivate
like parsnips. Dress heavily with wood ashes after sowing to prevent weods Storein sand for winter using. All radishes do best in light, warm, fairly rich soil and should be cultivated on the surface o mulch. Before eating keep up a dust soak them for an hour in cold water. Summer Squash.- Excellent for sauce, or when cooked as a vegetable Should grow quickly in quick, warm as it makes the plants run to vines Vegetable Marrow.-Good baked boiled and served as a vegetable. Cul tivate as for squash or pumpkin. Spinach need not be sown on farms and woods plants, as well as beet weed Young dandelion plants, pigweed, lambs' quarters, pusley and young brown dock eaves may all be cooked as greens, milkweed sprouts may be cooke while
asparagus. All of these are best when well
seasoned with butter and served very hot on toast as a supper dish.

## Hope's Quiet Hour.

## The Lord is There

The name of the city from that day
shall be, the LORD is there.- Ezek. $48: 35$. "Thou ant a port protected Erem storms 4s. A garden intersected
The streams of Praradise."
The prophet Ezekiel had a wision of a
wondertul city-a city which was temple-and, after eight chapters careful and 'minute description of this temple-city, he sums up its glory in its name: dhe name of the city from that day shall be, The LORD is there."
If
we compare Ezeliciels city with that of St. John we see that tit glory is still the same the Presence of God. The New Jerusalem has no need
of a temple, because it is all a temple of a temple, beceuse it is all a temple
It is Goople beeting It is God's meeting-place with His people
The Lord is there, and He is Himself the Temple. $\begin{aligned} & \text { We look forward to the satisfying ful }\end{aligned}$ filment of this Vision of Peace: but, even here and now-in the midst of war-God ofiers Himself as a a sanctuary to all who
will accept His invitation..Ezek. 11.16 .16 The German who, before the war, said proudly: "We don't need God, we have guns!"' has many followers in many countries. Young people, especially, who
feel as if their strength would overcome allobstacles, are apt to talk as if religion were only for the feeble and the old, Perhaps they may turn to God some day at present they think they can get along
quite well without Him. But when they realis
-as they may any day be forced to dowhere
beautiful poetry when with our troops at the front, wrote a hymn more than of view clearly. He was living in Drummondville, Que., when a letter reached him from a friend in England explaining malignant disease and had only a few malignant disease and had only a few
months to live. Canon Scott could not sleep that night, and in the darkness the hymn came to him-the hymn beginning, "Cast thy care on Jesus." In this hymn we are reminded that our Lord is also our
Brother, who has power to enter into our troubles as no one else can do, for "the way of sorrows is the path He trod". His sympathy is ready at all times, for small worries and for great anxiety and
fierce temptation. In the blackest darl ness we may-it we will-"clasp His living hand." Even death-that dreaded journey into the unknown-will be "but a short step further, nearer to His side. vond the misty barrier He witl for be Himself more clearly. To depart is not to be torn away from all that is familiar it is to be with Christ, to see the King a beauty and the distances. A soldier, who was blinded by an explosion, wrote to the mother of a
comrade about those who were killed by the same explosion: "One moment they were going on with their work then the whole world seemed to explode, then nothing, and then they went on weariness and all the strain and the cumstances of humanity. Nothing terrible about this. I'm sure they're not less alive but much more alive, going on with finer and more fascinating work, with greate scope for development, clearer under-
standing, and less to bewilder and hamper hem. Things must be better in the next stage, and-freed from all the clumsiness of matter-we must have finer powers -found something to enjoy in . If minute here, we needn't doubt that he is doing so there." Those words of cheerful confidence were written by a young man who has
in the dark. In the gloom and darkness he is clasping the living hand of a trusted pitying contempt on the follown Christ supply him with a better ligh to cheer and guide him on his way? He can go forward unfalteringly because the Light of the world the future see the gloomy and cheerless. Your turn be come any day-your turn to walk in the dark, with earthly lights extinguishedsee to it that before the darkness falls
you have found Him who you have found Him who says: "I am shine in the night and He is able to change night into day, for He is not only the Morning Star, but also the Sun of The whole
good cheer to His children-His reage of ing promise: "Surely I will be with thee" From the message to Abraham, recorded in the first Book of the Bible: "Fear not, for 1 am with thee", the same message reach the great promise which seal we the Love-Letter of the Bridgegroom to Hi Bride: "Surely I come quickly." there". He was with His "The Lord is furnace of affliction long people in the He walked in the midst of the flaming When with the three young men in Babylon. Wheir two criminals were executed, heand dying with them, and their load of guilt
gather the hittle company of the disciples gathered together with closed doors, for in their midst. At first Master was visibly present, but really the was in time. So He is really in the midst whenever two or more disciples meet together in His name to-day. St. John saw Him in the midst of His church, and heard tim praising, rebuking or encouraging
various members of the seven churches in Asia. So He is still in the midst of the church, warning us of the danger of lukewarmness and boastfulness, assuring
us of His unchanging love which will ns of His unchanging love which will comfort. Instead of being terrified by the sorrows of this present time let us look up and lift up our heads. Listen to His cheering word: "As many as I love, 1 rebuke and chasten; be zealous there-
fore, and repent. Behold, I stand at
the door, and knock, rousing jet and knock.' That was the ago to a careless, easygoing, wealthy congregation. There was danger in their comfortable, arm-chair Christianity, and
Christ would not allow them to be lulled into a deathly sleep. He offered His own satisfying fellowship to any man in that
lukewarm church who heard His voice lukewarm church who heard
and opened the door of his heart.
He is here. His voice is as the voice of a great trumpet, ringing through and
through the world. It is a poor triumph for His loved Bride to be able to say:
"I am rich, and increased with goods, and have need of nothing!" if His eyes, which are searching as a flame of fire, can pierce through the earthly riches and splendor,
and can find no glory of love beneath the glitter of gold lace.
Dare we unveil the secrets of our "Lord, Thou knowest all things; Thou knowest that I love Thee?" Do we
really love Him more than all earthly friends? Do we feel that His love is the
pearl of great price, so that we are really pearl of great price, so that we are really
rich if He is abiding in us, though in outward appearance we riay seem to be
poor? What is the name of our ideal city? Is it our ambition to be rich or
famous, to have an casy and pleasant ime, or are we athirst for God? Gates of pearl, streets of gold, foundations of "nough for us?
IIe are infinite in our longings, and nly the infinite God can give us peace. and He is our Peace. Listen to His great "I will set my sanctuary in the midst
if them for evermore. My tabernacle lso shall be with them: yea, I will be 'Is the Cross heavy? Doth thy sorrow When the terefners, gold is in the fire, He is near.", Dork Farkcons.
at once to help a sick man. Another dollar was passed on to-day, to provide comiorts still waiting for its special mission.

## The Ingle Nook



$D^{E}$AR Ingle Nook Folk, -Do you eve
stop, in the midst of stop, in the midst of your work,
to think of the strangeness of the spring we have come to? Sometimes
shink that no one realizes that more than 1, when trying to prepare reading to send year, in the good old At this time of the war, there were so many things to tall about, cozy home-like things about houses and flower gardens and new clothes. Then it was a pleasure to run down town to see
the new wall-papers and curtain stuffs, then come back and tell you all about it Now everything is changed. You would
not have the heart to read about such things, and it would scarcely be right to When so much money you about them. seas, and so much work to keen up the
ood supply of the world, it would be little short of wickedness to spend too much ime and money on things that are purely personal, and so, as we are all only human
and love pretty things, the best thing to do is to keep away from temptation. That is, generally speaking
But I have just now come from a spot pretty things a bit, with an entirely clear conscience, since practically every dollar
spent is to find its way directly to the hot coffee, tea, cocoa and soup to "the boys" when going in to the trenches, and, above all, coming out from them, weary, mudy and only too glad for a good hot
drink as a stimulant to shorten the long march back to camp. "Coffee In a Jam Tin ", was published in our pages, which told all about how a "Trinket Fund" is raised, and how you
may carry a trinket campaign throug perhaps, in your own locality, although in some places some other scheme may be better for raising money,
In this city
In this city a very vigorous campaign
was instituted some weeks ago for the
collection collection of all sorts of trinkets that be converted ing that or may melted down to
Tonto money. To-day the sale of the saleable articles
began, and the little shop rented for purpose proved to be a most interesting
spot. Jevelry and silver of been donated - old or superfluous brooches, bracelets, watches, spoons,
lockets, silverware for the table, and so on, making a fine collection.
For the was especially ieler in antiques the place
words of Words of admiration expressed for quaint
old "dog-collars" of silver, old brace lets in two or three kinds, of gold, and
cameo and amethyst brooches that told
of of the time of our grandmothers One coulld imagine the pang with which
some of these old keepsakes had been
given given nip, but surely the greater the sacri-
fice the, greater the virtue. One woman for instarcect gave a splendid gold watch,
that had belonged to her father and had been treasured because of the associations connected with it. "I don't think it could go in a better cause," she said. time "tin-type" of a man. One wondered why was the story connected with it, and Posility it was left to sow the use to
whicl.the space could be put.
was the most beout . There too, richly chased on the back, watch
silver face decorated with flowers in gold and an inscription in French inside
Thent there were tables and tables o newer things, superfluities, perhaps, in
houses antrady well-stocked, but p ovid
ing ing possililitites for less abundant house-
holds.
jeweler .." se had everyth lelver, sidd one of the women in charge,
and mary hing that is not solid metal know cractly what , hey are getting.
It was quite "safe" to buy, but as one
but also the long line of footsore home, and perhaps wounded boys, crowding into refreshing cups of hot drinks which the "Tringt not have were it not for these

rings of field-guns and heavy guns firing battery was revealed by its flashes, and all the fields around were filled with red winkings and sharp stabs of flame. Single voices, shaking the ground on which I stood with an earthquake tremor, and
after the long travelling howl of each shell I could see it burst on the high of each near Bailleul. There was no real darkness of night, for every second the sky was crossed by rushes of light, and burning beacons in many places, and gun
flashes etched out the lines of trees and cottages."
Then he tells of our flying men.
"Almost till the darkness came these
birds of ours were on the wing, birds
with brave hearts in them, flying over the frightful fields. Our airmen were flying low, searching through the mists for
the movements of enemy troops in order to call to the guns to shell and scatter
them. "Through the dusk and the darkness there were many men moving in groups. ing, marched towards the fires. One party as it went ,broke into song: 'Good-
Think * * * *
these "birds with brave hearts," mere lads of from eighteen to twenty-four "flying low" amid storm and fire and smoke and sharp, fierce missiles! Think
also of the weary mud-colored infantry who are the backbone of the army, men often called to stem fright-
ful tides of on-coming hosts, as were the ful tides of on-coming hosts, as were the in thisters and Highland Light Infantry
fighting four days and nights without topping, at Neuve Eglise. And yet, being done need arywhere along our lines. in numbers at Neuve Eglise called upon and Meteren, but even as I write this someone comes in to say that they are now "into it. For long, weary days Ridge and Lens and Hill 70, Before
Rey watching grimly this reaches its readers they 70. Before acquitting themselves as they always do, with the doggedness and dash that have put them among the best soldiers in the ing out from the trenches, weary, comcolored" men. For their sakes the work here which we women can do, whatever whether it be cheerfully carried through, and knitting in the house, or helping with Trinket Campaigns and Red Cross concerts, or any other devices that can formed to raise money for the soldiers.

## Junia.

## Medical Colleges-Raisin Pie

Dear Junia.-We have taken the Advocate" for a great many years, and paper. Will you kindly tell me if there are any medical colleges for girls in Ontario? If not, where could I study nedicine? I will close with a recipe for raisin pie which we find delicious.
One and one-half cups seeded raisins,
large cups milk, $3 / 2$ cup brown sumar yolks of 3 eggs and white of 1 , pinch of salt. Bake in one crust. When done


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tifully white enamelled, with brass top rail. knobs, and mounts; strongly constructed woven wire spring and mattress, filled with selected curled sea grass, wool top and bottom, heavy
twilled ticking.
rhis splendid outfit sent freight paid

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Patent Solicitors- Fetherstonhaugh \& Co
The old established The old established firm. Patents everywhere.
Herd Office, Koyal Bank Building, Toronto,
Otrawa Office, 5 Elsin St Bofle

3 tablespoons granulated sugar, pinch of sait, a little vanilla. Return to oven and brown slightly
Bruce Co.

Jennie Lind.
There is no Medical School especiall for women in Ontario, but girls are ad mitted to the men's colleges in Toronto and are to be soon in London. Write to the registrar of Trinity Medical College London.

## Re Y. W. C. A's.

For E. B., Norfolk Co., Ont. - To ascertain whether there is a Young Wotown, address your letter to the "Superin tendent." If there is none the letter
will be returned.

## Cooking Potatoes.

'When potatoes are old
That was a slogan dinned into our ear at cooking school, and then we were told that the converse was true, that when
potatoes were new they should be put in potatoes were new they should be put in
very hot water. It was told us, also that the old-fashioned way of boiling potatoes in "plenty of water", and draining it off afterwards, is the most wasteful way they can be cooked, because they contain certain salts that are very valuable to the body, and that are thrown away in the
water. Under the skin, too, is a layer of fine starch, which is lost in drained-off water or by taking off too thick a paring It is evident, then, that the very best way to cook a potato, to conserve the food value, is to bake it. By having a small tin oven, which can now be bought
to cover one burner of the oil-stove; this to cover one burner of the oil-stove; this fuel. The next best way is to scallop the potatoes, frst taking off a very thin paring, then slicing thin in milk and baking in the oven. Potato puree also conserves the food value, and is a nice supper dish. To make it, pare the powater until soft and mash fine in the water. Season with butter, pepper and salt, and serve very hot with bread and butter, biscuits or hot toast. When beef is being roasted, peeled potatoes may be placed When potatoes are to be boiled in the ordinary way see that the paring is as thin as possible, and cook in the very least quantity of water that will boil them. When fire is on for any length of time they may be steamed, but the water ased thus must be kept boill better it is, to cook them in their jackets, first cutting a small paring right around the tuber lengthwise. When half done throw in half a cup of cold water, as this tends to make the potatoes lighter. Some potatoes are so mealy that the outside is likely to boil of whil when the potatoes are half done add just nough water to cool the outside a little, leaving the inside hot. A little salt should always be added to water in which pared potatoes are boiled, but when they are scalloped the salt should until they are done, as if put in too sordle the milk.
it may curd
The gravy server
The gravy served with potatoes is, of
course, half the dish, and should be brown, smooth and delicious. If there is not enough meat gravy on hand, one that is very appetizing may be made as lows: Put some fat or dripping in a pand and fry in it soble you choose, such as tomato or celery When fresh tomatoes are not on hand, some canned tomatoes may be added after the onion is cooked. Add a cupful of the water strained of potatoes or any other
pepper and salt to taste, and thicken pepper and salt to taste, If a more meaty flavor is desired add a few teaspoonfuls of The water drained off potatoes or any other vegetable, by the way, should be saved and used in making soup. This saves the salts and
ments of the body instead of pouring them down the sink. All that is nem is to add milk, or water and meat extract, then thicken slightly and serve with biscuits or croutons of buttered brea tables may be cheped in tables may be chopped and, if liked.

Camouflaged Left-overs. Tomato Jelly Salad.-Take left-overs


Economy in baking is one of the biggest ways in which Canadian housewives can help to conserve food. Thousands of thought ful
women have found Egg-O Baking Powder a big help in economizing,

## EGG-O BAKING POWDER

means better baking at a smaller cost. Use only a level tea poon of Egg-O to each level, measuring-cupful of well sifted flour. These proportions will give you the best baking Try Egg-O yourself, next bake day. Surpris delicious Egg-O War Cake, eggless, butterless and milkless. It is easy to make.
1 th. raisins, 1 teaspoon allspice, 1 teaspoon cin3 cups water. Boil together 5 minutes. When cold, mix with 4 level cups of flour, 4 level
teaspoons of Egg-O Bating teaspoons of Egg-O Baking Powder, 1 level
teasponn of salt; sift and beat together. Bake stowly for 1 hour in a shallow pan. Better kept day or two before eating.
Buy Egg-O in the pound tin or larger sizes14 is much cheaper. Your grocer's name and
10 cents will bring a 4 oz . (net) tin of Egg-0
 and the book of Reliable Recipes.
The Egg-0 Baking Powder Co., Ltd., Hamilton, Ont.

it, and add plain powdered gelatine a
cording to cording to directions on the box. Stir well until thoroughly dissolved in the hot
liquid, but do not let boil, then pour a little into the bottom of wet cups, pend set in a cold place to stiffen. Turn out on lettuce or cress, put a spoonful of salad dressing on top, and serve with cold meat or hish.
carrots, oner peas, beans, potatoes, spinach, carrots, onions or celery.-Cook in a very
little water and rub through a colander, water and all. To the pulp add rich,
sweet milk. Reheat and serve very hot for supper, seasoning at the last minute On top of each plateful put a spoonful of rolled in melted butter and crisped in the oven. Paprika and white pepper are nicer than black pepper for seasoning milk soups. Also some prefer celery salt to ommon salt.
Vuce by andfé.-Make a thick cream heaping tablespoonful of butter and as much of flour, cooked together. Stir all the time while cooking, and add the milk ery gradually to make the sauce smooth has been chopped as fine as possible, which the beaten yolks of 2 eggs. Finally fold in carefully the whites of the eggs, beaten very stiff, and bake in a hot oven until brown. Folding is done by turning in he whites, then curning the mixture over and over very gently until the whole Meat Soufflé- Finely chopped chicken through a food-chopper) or flaked fish may be used instead of the vegetables in the recipe given above. If there are and ham, they may be chopped together and used.
The Last of the Bone.-Take any bones to which shreds of meat are still cling-
ing after the meat has been sliced off cover with a little water, and simmer until the marrow taken out of the bone. Scrape the shreds into the water, season, and add pieces of potato, carrot and turnip, or any combination one likes. If needed the whole is seasoned just then see that thicken very slightly with a little and blended in cold water. When at boiling point put in some small dumplings, cover Closely, draw back on the stove, and keep simmering constantly until done, threequarter, with the dumplings around the outside and the stew in the centre. The dish is made nicer by dabbing the dumplings with butter and sprinkling with finely chopped parsley. Serve for dinner ib. sumplings.-Two small cups flour, baking-powder, pepper and salt, $1 / 2$ teaspoon powdered herbs if on hand, $1 / 2$ small onion chopped fine, 3 sprigs o
parsley chopped fine. Sift flour, baking parsley chopped fine. Sift flour, baking
powder, pepper and salt together, then powder, pepper add other ingredients. Make into a stiff dough with cold water, stirring it
fully with a knife. Divide into 12 balls roll each lightly in flour and drop into the stew. The secret in having them boight is to keep the stew simmering (not boiling) constantly, Dumplings make a kind of stewed fruit, or even in slightly salted water, but when making them for that purpose the pepper and herbs must
be left out. Also a little shortening may be leit out. Also a little shortening may
be used instead of the suet. If cooked in the salted water serve with syrup or always be eaten while very hot, and just as soon as cooked, if possible, as they are spoiled they
are kept waiting until cooled. If they must wait a time before being served, put
them in a covered dish over water that will keep them hot without cooking them. Left-Over Porridge. - Reheat the and add a cupful of milk for each cupful wo. Beat all together. Put a spoonful of butter in a frying pan, turn the
mixture in, stir until creamy and serve
very hot, with pepper and salt, or with little syrup poured over, as preferred. substitute, so far as food values are con-
cerned). Make like porridge cup of chopped peanuts or any other kind
of nuts, and 2 beaten be beaten in after the cooking is com-
pleted. Beat until smooth, then turn into
moulds. When cold, slice and fry. May moulds. When cold, slice and fry. May
serve hot with gravy for meat, or with


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pended
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not be knocked over and the teat-cups cann fall on the stable floor and suck up straw

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Bruce's High Grade Seed Corn


| Banana Marmalade. <br> Bananas are rich in food properties and are especially good when cooked When the jam jars are empty this recipe, from "American Cookery," may be appreciated. <br> Take 1 cup water, 2 lemons, 6 large bananas, half as much sugar as cooked fruit pulp, or less sugar if a thinner marmalade is preferred. Peel the bananas and drop at once, sliced, into the water, which should be boiling. Add the juice | of the lemons and cook until very thick, stirring to prevent burning. Measure the pulp now and add the sugar, then cook down until clear and amber in color. The recipe should vield 1 1/2 pints marmalade <br> The Scrap Bag. <br> Peanuts as Food. <br> Peanuts are a valuable food. They may be used in salads, in cake and mixed with fruit in gelatine jelly. | Spots on Floor. <br> If you want to stain a floor which is spotted be sure to remove all spots before applying the stain. They will usually Scrul) well, then apply stain and waper as usual. <br> Pressing Waists. <br> A good way to press new waists or those that have become mussed is to sprinkle the ironing sheet well |
| :---: | :---: | :---: |

steam which arises from it will be sufficient
to take out the creases, to take out the creases.

Use Plenty of Water.
The majority of people do not drink solvent to carry off the surplus of uric acid, chlorides, etc., from the system, and also aids digestion and helps to pre-
vent constipation. Rheumatism and pyorrhea in the teeth are said to be due
to too much uric acid in the system. House Dresses.
The neatest and most serviceable house working dresses for the summer are made gether at the waist so there can be no wears out sooner than the skirt, it is advisable to have two waists for each skirt, they fade they will all look alike. An apron of thin oilcloth shou!d be used to prevent soiling. ${ }_{\text {* }}$ *

Banish Carpets.
""The weekly sweeping, and still more the half-yearly house-cleaning, illustrate, as
when a carpet is beaten, the infinite number of particles which, unseen, are further only necessary to leave a room closed in which a carpet is present to moisture in the decomposition of the organic materials present in it, through composition. We thus realize how dene the first steps we must take to keep a house clean is to allow nothing to be on
the floor which will retain particles of the floor which will retain particles of
organic matter, and the microbes which settle upon it, which cannot be readily and frequently removed and cleaned in
the fresh air. Thus polished, hardwood floors with rugs fulfil best both sanitary and aesthetic houshold conditions; while, pose so well as linoleum, which can be cleaned with a moist cloth, or, still better, frequently rubbed with a weighted felt block, which has been treated with paraffine dissolved in turpentine, or with
some other wax preparation."-Conservation of Life.

Wheat Substitutes.
There is no difficulty in finding wheat And how could that possibly be when all Western Europe-our soldiers and the people of our Allies-are needing wheat
bread? Our sacrifice in doing without it is so little; theirs, in the great fight and in the devastated country, is so imOatmeal makes splendid cake to be eaten hot with butter, as well as scones and
porridge; cornmeal is excellent for porridge, muffins, pancakes and Johnny cake; buckwheat pancakes and syrup are palatable and nutritious brown bread, ittle different from the bread made of graham flour or entire wheat; rye bread
also is liked by some people; boiled rice, boiled pearl barley and tapioca make delicious and nutritious desserts; po-
tatoes and vegetables of all kinds may be made important factors in conservation. Where there's a $\qquad$
House-cleaning Made Easier. $W^{\text {HEN every woman owns an electric }}$ vacuum cleaner, and has electricity to run it, house-cleaning use of such a cleaner every two weeks
will keep the dust out of rugs, upholstery, and even off the walls and curtains, so clean, and house-cleaning becomes rewoodwork, and clearing-up of closets and the attic.
It is no vague dream that, some day, practically every woman in the more
thickly-settled portions of Canada may be able to avail herself of such con-
veniences. Electricity was coming-full force-before the war, and the war can't
last forever. Things have been checked, In the meantime, in many homes, In the meantime, in many homes, on as usual, although the now prevalent
use of rugs over painted floors, dustless
mops, and sash-length curtains, has driven away most of the horrors_of the
$\qquad$


ADVCATE.

## old-time tacked-down carpets and trailing

 draperies.Every
Evices for liar, too, there seem to be new own fault if we don't avail ourselves of them. Here are a few that may not be known to you:

## Helps in Cleaning.

- ERE is a formula for cleaning large rugs which has been found very bars white soap, 5 cents' worth borax, 5 Boil all together petre, $1 / 2$ pint ammonia. the ammonia which dissolved except after the mixture is taken fro be added The jelly resulting may be used hot or cold. Apply it to the rug with a scrubbing brush, dipping the brush at once into hot water and scrubbing well until a good a shingle or some such take the edge of scrape off the some such bit of wood, and wiping each spot hard, first with a damp cloth, then with a dry one. Dry the rug that aill place, but not in sunshine, as This jade the carpet.
This jelly is also good for cleaning If the and pillows.
may be rugs are not much soiled they may be brightened by rubbing over, after beating, with warm water to which a little Splendid cleaners fod
now be bought at any good hardware store, but if it cannot be got easily a dough made of flour and water, with a little gasoline added, will do the work very When cleaning woodwork avoid soap,
which removes the gloss warm water to which a little coal-oil has been added. Windows may be very easily cleaned with Bon Ami, or with warm cloths to polish. Denatured aly of dry For splendid.
For white


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## water is a good clea

 dry, then brush off.For sweeping dow nothing is better than a cover of old moves the dust without scratching the paper. Gilt picture frames may be brightened by washing them with water in which onions have been boiled, with a
little sulphur added to make a vellow little sulphur added to make a yellow
color, while brass curtain rings will look clean again if boiled in water to which vinegar has been added. Nickel on stoves will respond to a mixture of whiting and coal-oil, while the zinc underneath, or on the top of the kitchen working table, ashes and coal-oil, left on for an hour before scrubbing
To clean window shades rub with magnesia, roll up and let stand a day or two, then brush off. If very much soiled
and faded, cover with two coats of thin paint.

## Serial Story

## An Alabaster Box

## -Y Mary e. WILERNS presman and moorenci

By arrangement with McClelland, Goodchild \& Chapter XXV.
Jim had no definite plan as he tramped down the road in the falling darkness speculated with regard miserable as he could not guess at half the Lydia. She people must be saying; but she would would give bread of sympathy and they might carry her awane. He wished he comforting her against shielding her and knew he would willingly storm. He knew he would willingly give his life
to make her happier. Of course she did
not care for him. How could she? Who
was he- Jim Dodge-to aspire to a girl
like Lydia? like Lydia?
The wind had risen again and was driving dark masses of cloud across th from behind the hills, touching thed up edges of the vaporous mountains lower purple. In a small, clear space above the red hung the sitver sickle of the new moon, and near it shone a single star.
Lydia was like that star Lydia was like that star, he told himsel There were in
There were lights in the windows o
Bolton House. Bolton House. Jim stopped and gase and powerful rising within him. Then yielding to a sudden impulse, he ap proached and looked in. In a grea armchair before the blazing hearth sat or rather crouched, Andrew Bolton He was wearing a smoking-jacket of crimson velvet and a pipe hung from his
nerveless fingers. Only the man's eyes appeared alive; they were fixed upon Lydia at the piano. She was playing some light tuneful melody, with a super abundance of trills and runs. Jim did
not know Lydia played; and the knowledge of this trivial accomplishment seemed to put her still further beyond his reach. He did not know, either, that she had acquired her somewhat indifferent skill after long years of dull practice the man, who sat watching her with bright, furtive eyes, Presently she arose from the piano and crossed the room to his side. She bent over him and kissed him on his bald forehead, her white saw man shake off those shoulders. Jim rough gesture; saw the grieved with a her face; saw the man follow her slight hgure with his eyes, as he stooped under pretext of mending the fire. But he could not hear the words which passed
etween them.
"ou pretend to love me" Bolton was

 long enough, by gad! I should think you
"But you wanted to come home to Brokkille, , lather. Don't you remember "That That was when I was back there in
that hell-hole, and didn't know what wanted. How could I? I only wanted
to get out and way! if you weren't to get out and way! If you weren't so
damned selfish, you'd let me go. I hate a selfish woman!
closer to the long window, heard her say "Very well, father; we will go. Only I must go with you. You are not
strong enough to go alone. We will Andrew Boiton got nimbly out of his chair a and stood glowering at her across
its back. Then he burst into a prolonged
it fit of laughter mixed with coughing. "Oh, so you'll go with father, will you?"
 mirthlessly, he went out of the roomghing
Left to herself, the girl sat down quictly enough before the fire Her Her
serene face told no story of inward sirrow to the watchful eyes of the man
who loved her. Over long she had concealed her feelings, ccen from hersslf.
She seemed lost in revery, at once sad and profound. Had she foreseen this
dire disuppointment of all her hopes, he wondered.
He stele away at last, half ashamed of spying upon her lonely' 'igil, yet withal
curiously heartened. Vesley Elliot was right: Lydia Orr needede a frimend.
He resolved that he would be that friend. In the room overhead the light had
leapt to full brilliancy. hand pulled the shade down crookedly.
As the coung man at the house he perceived a shadow lighted window. Then all at once the
shadow, curioust. hutdled and was gone. There was something sinister in the sudden disappearance of that
active shadow. Jim Dodge watched the lacant window for a long minute; then
with a muttered exclamation walked on

Here at Present- TEN IMPORTED BULLS coward the village.
To be continued

To be continued.
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Cockshutt, 42 Colborne Street, Brantford. Ontario. FOR SALE
Two hackney mares, one four years old, and regis,
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cratic peoples of the world. If that crop is sufficient the Allies can be fed.

# If that crop is not sufficient the Allies may have to accept a German peace. 

Ontario's Wheat Crop Does Not Support Ontario's People

It may astonish you to learn that, in 1917, Ontario did not grow enough wheat for its own needs. Consequently, every Ontario farmer whose land is suitable has been urged to sow five acres more spring wheat this year, so that Ontario's demand for wheat shall not be met at the expense of that portion of the Western crop that should more rightfully be shipped overseas.
For this same reason every householder who has a garden or a piece of vacant lang is being urged to grow vegetables, because the more vegetables that are grown and eaten in Ontario, the less wheat and meat there will be consumed; and, that being so, the Ontario wheat crop should then be sufficient to feed our own people, and leave more Western Wheat and other foods available for export.

## Why Substitutes for Wheat Cannot be Sent

Some foods, such as potatoes, occupy too much space in proportion to their
nourishment. But people often ask: Why not send corn instead of wheat? The chief reason, at present, is because for two months after the first of April corn will not keep during shipment abroad, for that is the germinating season. Wheat, on the contrary, is a durable grain.

And, though some do not realize it, the Allies have been using much corn in their bread - as high as 30 per cent. - a far larger admixture than we have adopted.

In Appreciation of the Farmer's Part

We are not unmindful of the magnificent results of your work last year. We recognize the difficulties you have to contend with, but we know that your heart is in the Cause.

This year, we are glad to say, the labour shortage is not as great as it was last year, and if you need help, communicate with your County Agricultural Representative, or the Public Employment Bureau, in Toronto, Hamilton, London or Ottawa, and help will be forthcoming.

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Bennet. $R$ R. Bennett, R.R. 1, Cottam, Ont. Eggs, Single-comb White Leghorns, $\$ 1.50$ and $\$ 3$
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## The Dollar Chain

 For the soldiers and all who are suffer ing because of the warM. J. K., $\$ 10.00$. "Bil", Sh to April 26 M. J. K., \$10.00; "Bill", Shedden, Ont $\$ 5.00$; A. Friend, London, Ont., $\$ 10.00$ "Toronto", $\$ 2.00 ;$ M. C. F., $\$ 1.00$; J. E McIntyre, 'R. R. 5 , St. Thomas, Ont
$\$ 5.00$; "Scotia", London, Ont., $\$ 10.00$. Previously acknowledged.........\$5,437.30
Total to April 26. \$5,480.80 Kindly address contributions to The
Farmer's Advocate and Home Magazine London, Ont.

## Gureent Avents

destroyers and a number of British Cruiser Vindictive made a raid against Zeebrugge and Ostend. A number o French destroyers also assisted, but the
raid was undertaken under command of Vice-Admiral Keyes. Part of the plan filled with cement, and sink them to block the way of the submarines coming out from these bases. This was carried out at Ostend. Meanwhile, under cover Mole fighting continued which the sailors reembarked hour, after Vindictive. About 20 yards of inner worls of The Mole were blown up by the ex plosion of a sunken vessel.
On April 23 Germany sent an ultima transit through Holland of the right o war material, both by canal and railway, and next day the German Minister the Netherlands left The Hague for Berlin, while the Dutch Minister at Berlin left for The Hague. At time of going to press Holland is emphatically
resisting the German demands further step has been taken in the matter

At time of going to press the battles of the Lys and Amiens are again in full prog-
ress. In the Northern, or Lys area, the Germans, on April 25th, after 6 hours Hill from the French, who man after the hill was completely last rounded. The battle has now developed from Dranoutre, which is in possession Canal, the immediate ppres-Comines Germans being to gain the high lands, Scherpenberg. On April 26th a fient struggle took place on both sides of the time of going to press, is in the hands of the British. A little farther south the
village of Locre, which has changed village
hands remains in the hands the last few da further evacuation of the Ypres salient and part of the Allies has taken place, Foch may have ordered withdrawl from military value. Midway bet of no two great battle Mreas the Canadians hear been making a series of sharp raids of gas shells, while at the sousthern end the Battle of Amiens rages anew, Here the Germans, on April 24th, re-
sumed a great offensive against French, British and American troops all the way Hangard. They also took the, regaining position marked by the village of Vellers Bretonneux, on the direct road to Amiens,
but on April 26th it was wrested fron them again by British and Australian
$\qquad$
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$\qquad$
cously British and French troops were
vious
landed on the
hore of the Artic Ocean, to assist the
Bolsheviki in guarding the supplie
mermexam

## EDDVARDSBURG GLUTEEN FEED

## is the ideal feed for milk production.

THE mere fact that it costs a little more than Bran, does not
cheaper than Bran-it is about the ciscapest feed you cen give
the cows-because it increases the mai.. yicld so much,
We have a little book that tells about Ldwardsburg
Gluten Feed - what it does and how it makes mooney 068 - FATtEN hogs on edwardsburg oil cake.

THE CANADA STARCH CO, LIMITED
TORONTO


THE

## Frost and Wood Mower

takes of the heaviest, thickest crop you want to tackle. It's built so it's not laid up for repairs just the day the hay is ready.

Many a hay crop has been lost because just work. Farmers who use the Frost \& Wood
Mower never have any mower-troubles - they'll gladly tell you so. This mower is built with extending over 80 years. Every sound feature of Mower construction we have learnt is emod in latest mowers.

An important feature is the continuous cut
of the knives. As long as the Mower is moving and in gear, the knives are cutting. You can or straining) to clear an obstruction, and drop it again, cutting full speed, saving time and
getting more crop.

FROST \& WOOD LIGHT DRAFT

It is our fixed policy to work for light draft
as well as rugged strength. We use highest grade materials of proven strength and perfect
fitting, dust proof roller bearings at points, saving all possible horse power for the work at the knife edges. The Frost \& Wood is Built in 6 ft ., 5 ft ., 4 ft .6 in . cut for 2 horses, and 4 ft . and 3 ft .6 in . cut for 1 horse 2

We have a special, nicely illustrated folder describing all our haymaking machinery
which we strongly recommend you to ask our nearest agent for, or write our nearest The Frost \& Wood


Just where the power is transmitted from the
drive wheel to the drive wheel to the
shafting we use the
"Internal drive" principle as against the gear a small toothed pinion inside a large oothed drive wheel-
so both wheels mesh moothly, run in the not tend to work loose and throw each other off, breaking teeth, machines so many little wheel is outside the big one. The F. \& W. Mower is a compact, rigid,
rattle-free, sure-working implement.

Cockshutt Plow Co Limited

## Barron's English Leghorns


GILLETT FARM



DITCHER MHR Matim DIGS YOUR DITCHES
GRADES YDUR ROADS

puickly
ChEAPLY
infour bur
DOES THE WORK OFSO MEN SEND FOR FREE BODKLET

Thu Preston Car 8 Coacm Co lum
97 dover st. prestan camuan

## SAWBLADES

pact of saw blades fo.e. factory



 267 KING ATREET WEST, R.

[^1]Gossip
Holstein Females Selling Privately In the advertising columns of of this
issue Thos. L. Leslie of Alluialdale Farm Norval, Ont., ies ofle of Alluvialdale Farm,
Holdozen or more Holstein females at attractive prices to make room. The Alluvialdale herd is not only one of the largest, but is also one of the oldest herds in York County straight, commercial been run only on a of the thirty-odd milking with every one
or official or private records treating or separatele re if if space worthy oo There were, in fact, at the time of our
visit several visit several young, cows then under test
and among them year-old. These was one $25-\mathrm{lb}$. three-year-old. These records like all others
in the herd were being ordinary conditions as at no time very Mr. Leslie ever specially prepared any cows for official testing. The uniformity of all records in the herd proves this, and breeders purchasing any of these females
may feel that everg may feel that every individual is capable
of increasing its year to year. It is also worthy from there are no three-quartered cows in the herd which should make them all the more attractive and safe to select from, These cows are all bred to the senior service sire at the farm, Sir Gelsche
Walker, which is Walker and Urmagelsche Segis Segis lbs. He is a grandson of King Segis on the side of both sire and dam and his seven nearest dams average 29.33 lbs . of butter and 520 lbs. of milk in 7 days
with a 4.60 average 1917 and 1918 calves test. All the bull and include twenty heifers and sis young bulls. The bulls range from small calves up to serviceable ages and are
worthy of inquiry.

Holstein Bulls at Roycroft Holstein breeders who are many Ontario for a new sire to place at the hed looking herds for the coming breeding season In drawing attention to the various offerings advertised elsewhere in
this issue we would suggest that prospective purchasers take special notice of those offered by Roycroft Farm of
Newmarket, Ontario. In the offering there are five bulls mentioned specially and aH five are of serviceable age. Two are by the senior sire at Roycroft and are therefore brothers to the world's record junior two-year-old heifer, Het Loo while another one is from a $20-\mathrm{lb}$. junior two-year-old sister of the champion heifer and by Avondale Pontiac Echo the famous son of the world's greates milk producer, May Echo Sylvia. The King is a 13 -months youngster by King Segis Alcartra Spofford, a son of
King Segis Pontiac Alcartra (the $\$ 30,000$ sire) and has for dam the 27-1b. cow,
Keyes Segis Walker Pietertje. The fifth and last is a 14 -months youngster and a half brother to the new Canadian champion senior two-year-old, Lakeview calves around the farm are all 1918 calves and those from the mature cows are nearly all sired by Pontiac Korndyke of Het Loo, the sire of the world's champion junior two-year-old mentioned above. The records of the dams of these youngsters run up as high as and all are still owned in the herd In closing we would like to add that there are now nine tested daughters of Pontiac Korndyke of Het Loo in the test, and at an average of two years and five months the average for the nine is 22.68 lbs . of
butter in 7 days. Several of these heifers also have 1918 bulls two of which are sired by King Segis Alcartra Spofford
and all are a choice lot throughout. When on the market for something choice in Holsteins, and just at this time Holstein bulls of serviceable age in particular, it
will pay to write Mr. Shaw, Roycroft Farms, Newmarket; for full

## Things War Won't Affect

 milk. 'he questions children ask at milkin' The amount of butter that's needed on Pride in a pair of new working overalls. That summer is comine-and creen

Invest Your Money in Canada Canadian Securities should be held by Canadian Investors. Taxation is likely to e imposed on non-Canadian Securities. time can be patriotic and at the same money by investing your funds in your

Standard Reliance Mortgage Corporation Debentures
This Canadian Security does not fluctufired value. It is repayable at certain fixed periods. Meantime it bears interes local bank, in cash, on the day it is due.
Thousands of people have invested thelr envings in invested. The debentures are issued in amounta
of \$100 and upwards for a fixed period to suit your
convenience


## Infantile Paralysis





A SUPREME COURT JUDGE
writes as follows regarding his policy.
"Allow me to express my satisfaction
with the result of this investment"
EXCELSIOR POLICIES YIELD SATISFACTORY RETURNS
Dept. M. Excelsior Life Insurance Co., Toronto

# How the Y.M.C.A. Contributes to Victory 

"Earnand Give" Campaign for Boys

Serve your Country by your labor and make a gift to the Red Triangle Fund from your earnings! What a fine chance to do a double service! Six thousand boys are asked to give $\$ 10$ each. Of the total, $\$ 50,000$ goes to help the soldiers, the belance for boys' work. Gifts must be at least S10, the standard unit. A boy may subscribe more than than $\$ 10$ in $\$ 10$ units but not less. A beautifully engraved certificate will be given to each subscriber. Ask your local Y. M. C. A. representative for pledge card

Y. M.C. A. man serving coffee 100 yards from German Trenches

YPRES, Langemarck, Festubert, Vimy Ridge, Paschendaele-how the very names thrill! They stand for deeds of the bravest of the brave-our own Canadian lads! They fight and win, not always by strength of numbers, but by unbeatable fighting spirit, or " morale."

Said a British Staff officer: "I have known morale to be found in a cup of hot coffee. I have seen it sustained by a man's merely writing a letter home. If you want an easy and short definition of 'morale' you will find a good one in the four letters V.M.C.A."

## Y.M.C.A. Red Triangle Fund <br> $\$ 2,250,000$, May 7, 8, 9 <br> Canada-宸de Appeal

The staff officer pointed to the men trooping into the big Y.M.C.A. hut and continued: "Those men are going to the front line to-morrow. In the Y.M.C.A. some of them will be playing games, others attending divine service, but each in his own way will find a strengthening of his 'morale' in the comradeship of his fellows under the Red Triangle. All this is a thing which is going to turn the balance in our favor."

Through the hell of battle after battle, our brave soldiers fight. Through fire, water, mud, filth and deadly danger follows the ever faithful Y.M.C.A. man, even if he can bring but a bucket of invigorating coffee to fagged fighters. Will you help us to supply the coffeeand to render the thousand and one similar services to soldiers everywhere?
The Y.M.C.A. needs at least $\$ 2,250$, 000 to meet the tremendous demands. Be generous!

Bits from Soldiers' Letters
"The Hut is very well termed next to home.
I went home for the first ime in 18 years and I had have given up my old habits of drinking and gambling and thank God for it. Thanks to a little word caught at one of
"From one end of the train to the other I heard nothing representative did his best to supply our needs, purchasing stuff at rock bottom prices the same way"
"They send guides out with parties of soldiers on sight--
seeing tours all over London."
A German prisoner said: such fight is easily understood. Your officers' canteens, Y. M. C. A.'s and Who pays? I don't know. But whoever they are, God fathers of thousands of boys."

## Tributes

Lord Northcliffe
I do not think the war can Be fought
Maj.-General Burstall The benefit to the troops is beyond calculation.
Lt. Colonel Mayes:
Games have a tendency to increase fighting spirit. Any efforts on your part othletic equite delivery of of national service."
Harry Lauder:
" We took the responsibility of sending these boys to not fail them. The Y. M C. A. huts are the soldiers 'Home from Home Brig. Gen. Odlum;
I want to let you know how much I was impressed with the work done by the Y.M.C.A. It was simply magnificent. All ranks are commended one of your officers for the Military Cross. The Y.M.C.A. has endeared itself to the
soldier in France as no other institution has."

## National Council, Young Men's Christian Association

## Morale!

## British Staff Officer Defines It -How Y.M.C. A. Enhances This Great Factor of Victory

"IsS VICTORY always on the side of the biggest battalions?" was asked of a British staff officer, as recorded by Dr. John R. Mott in the "Ladies' Home Journal."
"It is and it isn't," he replied. "There's something else. You cannot chart it, you cannot weigh it, you cannot express it in any military figures. But Napoleon knew what it was and he called it 'morale.'

## How Morale Is Created

"I cannot define for you exactly what morale is, but I can tell you it comes in many different ways. I have known morale to be found in a cup of hot coffee. That sounds unromantic. But think what that means to a man who has had ten hours consecutive shelling.
"I have seen morale created by a man's taking a big risk; I have seen it sustained by a man's merely writing a letter home just before he went into action. You can describe morale," he continued, "in a score of ways, little and big.
"It may come from faith in a future life or from the thought that one is protecting the loved ones at
home. But it you want an eary and short definition of morale, you will find a good one in the four letters Y. M.C.A."

## Strengthening Morale

And he took his questioner to the window and shewed him men trooping into a Y.M.C.A. hut.
"Those are men," he said, "who will be going up to the front line to-morrow. Some of them will be playing games, others will be writing home, others will be attending divine service, but each in his own way will find a strengthening of his morale in the comradeship of his fellows beneath the symbol of the Red Triangle and the inspiration forwhich it stands.

## Y. M. C. A. Playing Big Part

"All this is a thing which II cannot show on my charts. But it is also a thing which is going to turn the balance in our favor. Go back and tell the people at home that a dry soldier, concerned alone with millitary calculations, believes that the Y.M.C.A. is playing a far bigger part in winning the war than any mere civilian can recognize.
"I do not speak to you as a philanthropist. That is not my job. But I want to see the end of this horrible business, and if a soldier's words have any weight, tell them at home to help the Y.M.C.A. to carry on its work."

THE FARMER'S ADVOCATE.
Questions and Answers. Miscellaneous.

Hens Lay at Night.
What is the cause of hens laying off the roost during the night. My flock of 50 lay from eight to a dozen every night

Ans.-We can give no direct cause for this occurrence. Eggs are frequently found on the dropping board or under the roost, but it is rather unusual to find so many laying at night. We have noticed when hens are starting to lay that this frequently happens. We do not know that anything can be done for it. If there is plenty of straw under the roosts it will prevent the eggs from being broken.

## Starting in Bees.

impresn because they are impregnated with a chemical stick "dead" immediately th match is extinguished.

CHEAPEST because there are more perfect matches to the sized box than in any other box on the market.

War-time economy and your own good sense will urge the necessity of buying none but EDDY'S MATCHES

The E. B. EDDY CO., Limited hull, Ganada

## Clover Seeds

COVERNMENT STANDARD
No. 1 Red Cover
 . $\$ 23.00$
.22 .00
..
16.00
No 1 Northern Grown Alifalfa No. 2 Timothy (This seed grade
 O.AC. No. 72 Oats........
Marquis Spring Wheat.. Canadian Beauty Pea Golden Vine Peas.
White Seed Beans.
Terms, cash with order. Bags extra On all orders, east of Manitoba, of
$\$ 25$ or over, we will pay the freight. We guarantee seeds to satisfy,or ship TODD \& COOK Stouffiville, Ont SteeWheels Made to Fit Your
 Now in the itime to papea
 satisfaction in every prov
ince in the Dominion. The saver theyareuneaccelled. a new wagon out of mot old one. Write to-day for
illustrated circular and pric
ind list, together wand price
chart, showing how to tree

easurements correctly,and testimonials from sat

wo quote price delivered to your nearest station
no matter where you livel The Cooke Meta
Wheel Company, 19 West St., Orillia, Ontarle

## BEEKEEPER'S SUPPLIES

 A loss of time. years to come.Write to-day for Catalogue E
Ans.-It is rather difficult to explain just what treatment should be given to
bees as you will find certain problems centinually arising that would have to be solved. The book "A. B. C. in Bee Culture," by Root, which can be secured through this office for $\$ 2.75$, deals very fully with the bee problem, and you would
find much valuable information in it Once the bees commence gathering honey it is necessary to keep them supplied with foundation frames and to watch them closely as the season approaches when they swarm. In Bulletin 256, issued by the Ontario Department of
Agriculture, valuable information is given Agriculture, valuable information is given
relative to the wintering and spring care relative to the wintering and spring care
of bees. This Bulletin may be secured from the Department.

Wood Ashes-Lime Sulphur 1. When is the proper time to transthis be done?
2. What is
wood ashes to the land to to apply best results? What plant food do the particularly supply?
of lime-sulphur and water quantities gether for making lime-sulphur boil tolong should it boil? in the ground all winter poisonous left when do they become poisonous
Ans.-1. Maples may be transplanted any time during the spring. The earlier
it is done the better, as it is more of a shock to the tree once the leaves begin to come out. In transferring from on
place to another the top should be cut back pretty well as it gives the roots a better chance to take hold. They should be planted a little deeper than they were
in their original place. Fairly large hole should be dug and surface soil hole in around the roots. If the soather dry some advise pouring a pailful o
water around the roots of each tree as this aids in giving the small rootlets a start. If comparatively dry soil is
packed around the roots it will draw more or less of the moisture from then more would be detrimental.
wood ashes the quickest way to a la them would be with the fertilizer drill. However, they may be spread off the
wagon or may be dumped in small wagon or may be dumped in small piles
and then spread. Hard wood ashes contain a considerable quantity of potash besides some lime and phosphates. They are beneficial to practically all crops.
3. Home-boiled lime-sulphur is mat by using 20 lbs. of fresh stone lime and 15 ilss. of sulphur, to 40 gallons of water.
Slake 20 lbs . of lime in about Slake 20 lbs . of lime in about 15 gal-
$\qquad$
$\qquad$
$\qquad$
$\qquad$
o 50 gallons of water, and an hydrome ter

Montrea


A Bicycle on the Farm Will Save your Horses, your Gasoline, your Time, and your Money
 LWAYS ready for instant use.
Costs nothing for upkeep. When your farm machinery breaks down, or your motor car goes on strike, you can jump on your Bicycle, get to town and back with the spare parts, and make the repairs without any serious

Be sure that your Bicycle is a "C.C.M." -the best is cheapest in the long run. Its first cost may be a trifle more, but it will stand up on the country roads, and will look well and run smoothly for
 MADE CANADA and GUARANTEED by CANADA CYCLE \& MOTOR CO., Limited
Toronto WESTON, ONT.

Winnipeg Vancouver

## Twice as easy as walking Three times as fast

$|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||\mid$
TO ALL


## T <br> O THE YOUNGER GENERATION

 peculiar force for the the
reason thata Life Policy
is the only investment is the only investment
in which the younghave
a decided advantage
only in the considerably lower cost - but in the greater immunity from iver health and other
causes that prevent insurance - there is a strong argument for arranging this urgent matter
of protection early in life.
The Great-West Life issues policies specially attractive to young persons. Premiums
may be paid annually or otherwise to suit the applicant. Rates on request.
The Great-West Life Assurance Company

Cloverlea Farm Holstein-Friesians

## Safe, Clean Cooking

SAFE, because the oil tank is away from the heat, and because the height of flame cannot vary. Clean, because there are no wicks to smoke or need trimming.
Burners can be regulated to give degree of heat desired, and when not in operation are left completely up out of oil contact. The asbestos lining and dead air space, and glass door of "Success" oven ensure heat retention and visible baking.

An economical cooker and baker, beautiful in appearance.


For the Business Man on the Farm The desk pictured above-the "Efficiency Desk" will do for you, in your record-keeping, what the automobile and the modern tractor have done in
the field of actual farm development. In it you can keep, indexed for instant reference, your Government re- it is to suit your needs exactly- Here pors, your market prices on produce the price of a desk alone
for use in basing future prices, and your clippings from farm papers on
interesting subject. interesting subject.
Your accounts, taxbills, insurance papers - everything fits into it - and
right at your fingers' ends. You've probably been looking for something

Take a pencil now and write a postal to our nearest branch for descripThe office specialty mpge con limited
Home office
NEWMARKET
Canada Filing Equipment Stores at
Toronto Montreal Ottawa Halifax Hamilton
Winnipeg Regina
Edmonton Vancouver


Questions and Answers. Miscellaneous.

Killing Ground Hogs 1. What is a satisfactory means of
exterminating ground hogs?
A. M. Ans.-1. Moisten a rag with carbon
bisulphide and put it in the burrow in bisulphide and put it in the burrow in
the evening. Carbon bisulphide forms a gas which is heavier than air and will gradually settle to the bottom of the
burrow, destroying all life within. The material is inflammable and care should be taken not to handle it around buildings
or where there is fire of any nature. As it is very poisonous it should be handled

## Scratches.

1. I have a five-year-old horse whose above the fetlocks. What remedy would you recommend?
aloes and 2 drams a purgative of 8 drams with $11 / 2$ ounces of arsenic twice daily for a week. Apply for two davs and two the affected parts the parts three times daily with a lotion made of one ounce each of acetate of lead and sulphate of zinc to a pint of
water. If the parts affected get muddy, rub well until dry but do not wash the ministered to pregnant mares.

Raising Turkeys.

1. How should turkeys be raised that 2. Which proves the more satisfactory a gasoline or kerosene engine? How much gasoline will a 5 horse-power engine
consume in a day? Ans. -1 . Turkeys that are hatched same manner as those hatched by turkey hen. Particular care must be taken in feeding and in keeping the poults There are various rations which to them be fed After various rations which may be soakied in skim-milk grit are given, bread gradually substituted by shorts. The shorts may be soaked in milk but should
be fed fairly dry. Feed should be given


## Palmer's Summer Packs <br> 

GIVE real foot comfort to tired, aching feet. They proof leather. These summer packs or plow shaerare light, strong, durable-made with water-proofed leather sole and heel and solid leather insoles are laced, have large eyelets and bellows tongues. The

They are also specill land.
They are also specially suitable for ranchers, trackmen, laborers, sportsmen and all others
ing extra strong yet comfortable footwear.

The style shown-No. 109, is nine inches high. Ask your dealer for Palmer's famous and sizes to choose from.
JOHN PALMER CO., Limited
Fredericton, N. B., Canada
IMPORTED AND CANADIAN BRED CLYDESDALES Columbus Stables. We have on hand at present one of the strongest selections of imported and
Caradian bred stallions we have had in the stables in years. A Atrong combination of size, ouality and


## Aberdeen-Angus

We havea splendid selection on last spring's bull calves to offer, sired by our noted herd bulls and
from our choice home-bred and imported cows. Inspection invited. Berkshire boars and sows larkin farms oueenston, ontarió

anadian-bred champion bull at Toronto
nto and Otta wa winners this year all

## $+$

$\qquad$

Clydesdales and Shorthorns $\frac{1}{1 \text { still have some thorthorn bullis, }}$ iour great-grandsons of Royal Blood; these are an exceptionally fine lot; also a number of females. In

SALEM SHORTHORNS

out of the hand as disease frequently
results from feeding All drinking founting of the ground thoroughly clean. Finely-chopped onion with the shorts: in fact may be mixed of the ration should be of these materials. As the birds develop, small wheat may be fed. Some use quite a bit of oatmeal with good results. Young turkeys will provided they are properly teoked reeds, 2. Both gasoline and kerosene engines proving satisfactory. Gasoline sene and an engine will start a little quicker with gasoline. The amount of fuer used hin a don anorse-power engine would aepen on the amount and

Weight of Stock by Measurement of. How can I find the live weight the same rule hold true for calves less than a year old?
Ans.-1. We cannot vouch for the
accuracy of the following accuracy or the following rule for esti-
mating the weight of an animal by measurement, however, it is as follows Multiply the girth in inches immediately behind the shoulders by the length from the shoulder back in inches, and divide multiply by 16 , if from 5 to 7 feet to 5 feet, multiply by 16 , if from 5 to 7 feet multiply by 31 to get the number of pounds live weight. Another rule is to take the diameter of the animal behind the shoulder and find the area. This is multilplied by the length of the animal's body, which figuring it as a cylinder. To do this the circumference is divided by $31 / 7$ to get the diameter, this is squared and then multiplied by. 7804 to get the area of the end or the cylinder, and this is multiplied 576 to get the inches and divided by This is multiplied by 14 to reduce it pounds. The same rule would apply to a younger animal.

[^2]
## Compare the

SANITARY KING with all other Cream Separators
Then you will understand why
"Sanitary King"


 lor electricity Sold on easy terms it
desired.
Write for local agent

King Separator Works of Canada Bridgeburs, Ontario

In nearly fifty years
The Mutual Life of Canada has never gone back on a guarantee

Clydesdales and Holsteins
 HoLstens. Females -a number fresh. Also
twobroodsows (grade Yorkshires) due to fartow Warren Stringer, R.R1, Dunnville, Ont.

## BULLS

am offering, for immediate sale, three good
buls.
one roan, imported,
nis.
months. and two others extraw well bred.
Anyone wanting a bull
of the better sort the better so
should see
A. G. FARROW, OAKVILLE SUNNY ACRES
ABERDEEN-ANGUS Bulls of serviceable age and

WM. CHANNON \& SON P.O. and 'Phone

Alloway Lodge Stock Farm
Angus - Southdowns - Collies SHOW FLOCKS
Remo and ewes. Heifers in calf to Queen's Edward,
1st prize, Indiana State Fair. Robt. McEwen, R. R. 4, London, Ont. MESSRS. A. J. HICKMAN \& CO, (Late PEDIGREED LIVE STOCK of all descriptions. Speciality mage of draft horses,
beef and dairy breeds of cattle. show and field
shep hepp. Milustrated catalogues and testimonials on
plication. All enquiries answered with pleasure.
ow is the time to import betwer, and insurance against all war risks can be
covered by payment of an extra $1 \%$ only. HF SUNNYSIDE HEREFORDS -

in heifers, and bulls with size quality and breding ; wil promise not Arthur F. O'Neill \& Sons, R. No. 2, Denfield, Ont. ABERDEEN-ANGUS

H. Fraleigh, Proorietor, Meadowdele Farm. Forest, Ont Kennelworth Farm ABERDEEN-ANGUS

Tweedhill Aberdeen-Angus




Taylor, H. H., 1,375; 39, Gibbard, 1,374 Katcharian, 1,346; 41, Lindala, 1,339
42, Laing, 1,329; 43 Taylor, W. D., 1,327 42, Laing, 1,329; 43, Tay lor, IV. D., 1,327
44, Christensen, 1,322; 45, Devitt, 1,295
2, Co, 20; 46, Cohen, $1,278,11,20 ; 47$, Brown
1,$266 ; 48$, Lowrie, $1,265,10,13$. 49 Conway, 1,263, 20; 50 , Segal, 1, 1,257, 13 ,
$20 ; 51$, Collier, 1,$254 ; 52$, Goodier, 1,239
$20 ;$ ${ }_{1,237 ;}^{53,}$ Webster, F. F . $1,1,231,3 ; 54$, Sirrs, $1,178,4,57$, Thompson, $1,140,11,13$
58, Bernal, $1,099,1,3: 59$, Lathey 1,07 58 , Bernal, 1,099, 1, 3; 59, Lathey, 1,079
5,$10 ; 60$, Williams, $1,074,1,20$. Subjects.-1, English Literature; ${ }^{2}{ }^{2}$
Composition; ${ }_{3}$, Drainage; 4, Arith-
 Chemistryics ${ }^{2}, 8$, Manual Training; 9
Cheology; 11, Botany 12, Zoology; 13, Horticulture: 14, Field
Husbandry; 15, Animal Husbandry; 16, Dairying; il, 'Poultry; 18 A Apiculture Medica.
Serond Year-1, Hopper 2387.

 2,132: 11 , Hall, 2,$127 ; 12$, King, 2,0s3:
 19, Arnold, 1,942; 20, Leavens, 1,919;

$\qquad$
$\qquad$
Subjects.-1, English Literature:
 Drainage: $\overline{7}$, Agricultural Engineering;
8. Electricity, \%, Farm. Mechanics; 10 ,
Organic Chemistry; 11, Soil Chemistry:
 Botany; (Christmas); 17, Economić
Botany; 18, Phys. Botany; 19, Field
Oushon,






## Bow tory eage

"My overalls and shirts are the best made, because hey are roomy and comfortable. I designed them with legs occasionally." " Big 11-the big grey overalls-the cloth with the test R. G. LONG \& CO., LIMITED

BLAIRGOWRIE SHORTHORNS JOHN MILLER $\qquad$ Myrtle Station, C.P.R., G.T.R. ASHBURN, ONTARIO FARVIEW SHORTHORNS AND CLYDESDALES In Shorthorns we can offer you a choice from 60 head. including both bulls and females, of Lavender,
Missi.. Aususta, Duchess of Gloster Vilage Girl. Miss Ramsden and Clara breeding-the best of
catte ind the best of pedigrees Iu Cives. Guelph 1917 STE
ROBERT DUFF

## GLENGOW SHORTHORNS

WM. SMITH, offering in young, bulls, fit for service. They are all of pure Scotch breedin Robert Miller, Stouffiville, Ont.
still has a few Shorthorn bulls. fit for service, and some females that are as good as can be found for
the man that wants to start right in Scotch Shorthorns. They will be sold for a low price, considering
the quality, and the freight will be paid.
SPRING VALLEY SHORTHORNS
 SEVENTY-THREE HEAD OF SHORTHORNS Four good young bulls of serviceable Her NS


SHORTHORN BULLS Will. A. Dryden
 SHORTHORNS-T.L. Mercer, Markdale, Ont.
 IMPORTED SCOTCH SHORTHORNS
 escana farm shorthorns

## Evergreen Hill

Plaster Hill Herd ${ }_{\mathrm{S}}$
 Spruce Lodge Short


THE FARMER'S ADVOCATE.

. Anderson, 1,233; 30, Minielly; 1,217 1,188, 11:33, Cook, 1,049, 10, 11, Light Subjects.- 1 , English Literature; ${ }^{2}$
and
and journaism
Economics; 4 , French; 5 , 5 Heat; 6 , Meteor ology; 7, Cold Storage; 8, Inorganic
Chemistry; 10, Quantitative Chemistry; 11, Organic (Christmas); 14, Bootany 13, Botany Systematic Entomology;' 16, Economic Entomology; 17, Bacteriology.

Questions and Answers. Miscellaneous

| Removing Telephone. <br> ten years ago 150 farmer together and built a rural tele ine, each paying an equal part erection of said line and had the y incorporated. One man sell $n$; can he remove the telophone ing was said in the agreement? |
| :---: |
|  |  |

## Flintstone Farm

Breeders of Milking Shorthorn Cattle Berkshire Swine
Belgian Draft Ho Draft Horses All Shorthorns eligible for repistry
 Books Wo we will resister and trans-
for in both herd books all animals
sil dy us
Dalton
Massachusett

## MulPurpose Shorthorns

Herd headed by Dominator No. 10624 whose grandam on his sire's side has testing 3 . record of $13,535 \mathrm{lbs}$. of milk, $P$. record of 10 whose dam has an R. $O$. 3.88. We have several choice bullo about ready for service, from this sire, and 8,000 to 11,000 with records running from WELDWO Iatation period
Farmer's Advocate

## Mardella Shorthorns

Dual-purpose bulls, 20 young cows and type, quality; some full of Scotch. The great massive Duke-dam gave 13,599 Thomas Graham, Port Perry, R. 3, Ont Newcastle Herd of Shorthorns and Tamwortha
For Sole:- 2 brars 8 and 12 months old, several boars and sows 2 to 6 months old $Y$, All descendants of Colwills choice, champions at at Toronto Industrial 3 years in succession, and Imp. a. Colwill, Prop., R.R.No. 2. Newcastle, Ont Bulls all sold. One extra good roan bull calf of 4.5; he would work by July, Also a few females
bred to the herd sire. Ropal


## College Duke 4th in sprvice

Rerinthschid and Tayice - a high-record son aring joung cows and heifers, bred stock. Am Evergreen Hill R.O.P. Shorthorns Herd headed by the R. O. P. bull, St. Clare.
Vothing for sale at present. Plaster Hill Herd Dual-Purpose Shorthorn hirteen months. Size quality bulls from four to Martindate \& Son, R.R. 3, Caledonia, Ont. Spruce Lodge Shorthorns and Leicesters


Cream Wanted
Ship your cream to us.
We pay all express charges. We supply
cans. We remit daily
We guarantee highes
market pric
Ontario Greameries, Limited London, Ontario

\section*{Cutting Grain.

## Cutting Grain. <br> 1. Is it best to cut wheat a little

 the green side and let it ripen in the Which will shrink the least? E. H. S. Ans.-1. Allowing the grain to ripenbefore cutting will possibly give the best before cutting will possibly give the best
results and will cause the least shrinkage In the case of oats some prefer to cut ittle on the green side as it gives them
a little better quality of straw for feed a little better quality of straw for feed
It does not tend to materially injure the grain. Moving Building.

Moving a Building

1. Have bought a building 22 feet by village, and wish to move same on my farm. Have I the right of way in regard to telephone, telegraph and electric
light wires and concrete bridge light wires and concrete bridge with
concrete railing? If so, what steps should I take, and how many days' notice should
the respective companies receive from me? Any information will be much appreciated. Subscriber. Ans.-1. No, it is a Mmatter for
arrangment with the municipal and
other corporations interested suggest your first seeing the Reeve.

Paying for Farm.
My husband purchased his mother's
farm and the writings stated that a certain sum was to be paid annually. It is all paid but $\$ 400$. The time has expired when the entire sum should have been paid
and his mother refuses to give receipts for small payments. If anything should to hold the farm by paying for it? We have a large stock and could finish paying
for the land. for the land.
mortgage has we understand it, the the mother wishes payment in full. By paying the remainder of the mortgage
you would have the farm. It would be well to raise the money even if it neces sitated the dispersal of some of the stock
then you would have the deed of the farn and further trouble in the matter would be avoided.

Vermin on Horse.

1. A six-year-old mare appears very
itchy. She bites her legs and body at every chance, and rubs against the sides of the stall when in the stable. What
is the matter with her? Can a cure be effected? How should she be fed? Will medicinal treatment be effective? H. R.
Ans.-1. It is possible that the mare is infested with vermin in which case
she might be washed with some disinfecting material, or a mixture of parts cement to 1 part hellebore might
sifted into the hair. If this is done care must be taken that the mare does not ge applied. There may be a skin diseas such as eczema. This Treatment for thi onsists of purging with 8 drams aloes and
drams ginger, following up with on 2 drams ginger,
ounce Fowler's solution of arsenic twice
daile for ounce
daily
daily
of one $x=3=$


PERHAPS you have been putting off buying an engine until you could lay by enough money to pay for it,
A much better way to save the money would be to install an ALPHA Gas Engine NOW and put it to work. It would soon save is own cost, as the thousands of Alpha users in Canada will tell you.
Alpha, but hear in mind to buy engines that cost a little less than the Aha, batbear in mind that an engine that costs you less to buy and manufacturer less to build. And that can mean but解 inferior quality throughout the engine.
You don t want that kind of an engine. Its life will be short, ins fuel and repair bills high, and you will be subject to time and oney-wasting delays.
Send for our catalogue, which tells why the farmer who buys

$$
\begin{aligned}
& \text { Alpha Gas Engines are mado im } 12 \text { sizes, } 1 / 2 \\
& \text { portable and portable styleo with hopper or } \\
& \text { tank-cooled cylinder. hopper or }
\end{aligned}
$$

THE DE LAVAL COMPANY, Ltd. Lakiest manuFacturers of darry supples in canada.
 MONTREAL PETERBORO WINNIPEG VANCOUVER
$50,000 ~ B R A N C H E S ~ A N D ~ L O C A L ~ A G E N C I E S ~ T H E ~ W O R L D ~ O V E R ~$ MONTREAL PETERBORO WINNIPEG VANCOUVER
$50,000 ~ B R A N C H E S ~ A N D ~ L O C A L ~ A G E N C I E S ~ T H E ~ W O R L D ~ O V E R ~$

## HIGH-CLASS SHORTHORN BULLS

 THE MANOR STOCK FARM---SHORTHORNS
 DENFIELD, ONTARIO. BURNFOOT STOCK FARM

## 

## WELLAND DISTRICT SHORTHORIN BREEDERS' CLIB <br> New sales list out: cows, heifers bred, young bulls, also stock bull Morriton Pride $=10939$

Chae. Gainer, Secr
Getary, Box 607 , Welland, Ontario. A. E. Howell, Preeddent, Penwick. Ont.
 FLETCHER'S SHORTHERIE BROS., ELORA, ont

## FLETCHER'S SHORTHORNS

Mur herd of Scotch Shorthorns represents Orange Blosom. Kilbean Beauties, Matchlesses, Mysies,
Missies, Clementinas,
 30 Shorthorns for Sale - in aight bulls and a loo of good breding, revistered females


## FIFTY IMPORTED SHORTHORNS


PLEASANT VALLEY FARMS

## 

 MAPLE HALL SHORTHORNS

$\square$
 PLEASANT VALLEY FARMS



LIFT YOUR CORNS
OFF WITH FINGERS
Tells How to Loosen a Tender Corn Callus so it Lifts O
Without Pain.
 doesn't even irritate the skin
Hard corns, soft corns, or corns between the toes, also toughened
calluses, just shrivel up and lift off so easy. It is wonderful! Seems magical! has Freezone. Ask him! Your druggist


HOLSTEINS
from a $2.35 / 2 \mathrm{lb}$. 3 -year-old dam. One 18 old,
One bull 13 mis.; others younger. One R. M. Holtby, Port Perry, Ont.

For Milk, Butter, Cheese, Veal Holstein Cows Stand Supreme "t sou try just one anit sam I you will very soon | wantmarye |
| :---: |
| WRITE THE |





THE FARMER'S ADVOCATE


## There's no use crying over lost milk

IF you had had an Ideal Green Feed Silo this last winter your cows would have given 25 per cent more milk and your feed bills would have been 20 per cent less, in the

From this you can figure how much bigger your profits would have been, with milk at such high prices.

You can't remedy your oversight now, but you can prepare now to get all the milk you are entitled to, next winter.

NOW is the time
to install an
IDEAL GREEN FEED SILO
Summer will soon be here, and the first thing you know another winter will come around and youll have no silo.

Write today for our catalogue, which not only shows why the Ideal is the best silo you can buy, but contains much valuable information about silos and silage.

THE DE LAVAL CO., Ltd. LARGEST MANUFACTURERS OF DAIRY

 MONTREAL PETERBORO
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50.000 BRANCHES AND LOCAL AGENCIES THE

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Hospital for Insane, Hamilton, Ont.

> ONLY THREE BULLS LEFT

APPLY TO SUPERINTENDENT.
"GOING TO SELL 'EM"'

## SUMMER HILL HOLSTEINS

30.76 junior four-year-old; sire's dam 34.60 . The three nearest dams average nver 100 los. milk a day. Can spare a

HAMILTON, ONT
DUMFRIES FARM HOLSTEINS

RIDGEDALE STOCK FARM
hivhert producing cow of her age igh the testing dams, such as Lakeview Dutchland Wayne Rose, the wi pay you to inspect these before buying.
DR. F. A. HESLOP. Prop., R. R. No. 1. FREEMAN. ONTARIO. CHAS. HESLOP. Manare

## SOVEREIGN STOCK FARM

the average large city church than in
some whole towns with five or sixc chychee some whole towns with five or six churches
in them. The
The new church must be alert and
aggressive, aggressive, giving , practical embodiment
to the "goodwill", which it has bent charged to exemplify before all men. It must demonstrate till "Gentiles come to its light and , princes to the brightness
of its rising." of its rising." The new church must
undertake the leadership of the pormer it must undertake human nature il must relate itself to the real life of the people and keep down the invidious dis.
tinctions betwen tinctions between sacred and secular,
religious and moral ethics and religious and moral, ethics and politites,
and so forth. In short it must life and save the community R. O. Armstrong. R. O. Armistrong.

Limitations of Powers of Leave-of-Absence Boards.
The following information concerning the powers of Leave-of-Absence Boards was obtained from Headquarters, Military District No. 1, and may be of interest to many who are liable for military service.
The Leave-of-Absence Boards are established for the purpose of dealing with the cases of men who have been ordered under the Military Service Act, to report for Military duty, but who think there is good reason why they should, nevertheless, be allowed to continue for a period in civil life. The grounds on which they seek this may be
compassionate grounds or business grounds. The authority which established these Boards has, however, set limitations to their powers, some of which are as follows:

1. Applications not presented to the Commanding Officer of the lst Depot Battalion, W. O. R. (the unit to which draftees are assigned) within one week
after the man reports for duty, cannot after the man reports for duty, cannot
be received. 2. Men surrendering or arrested as
defaulters are no longer entitled to claim exemption.
2. Where applications for Leave-of-
Absence are presented in Absence are presented in cases which
have been dealt with by the Tribunals established under the Act, the decision of the Tribunals should not be overridden by the Leave-of-Absence Boards,
(except in case of farmers) unless, sub(except in case of farmers) unless, sub-
sequent to such decision, cirsumstances have arisen which, had they existed at the time the case was considered by
the Tribunal, would have justified the the Tribunal, would have justified the granting of exemption. apply to the case of farmers for the reason
that in most instances neither the Local nor the Provincial Appeal Tribunals were aware of the seriousness of the
food situation. Such cases may, therefood situation. Such cases may, there-
fore, be dealt with by the Leave-offore, be deait with by claims have been refused by the Local or Appeal
Tribunals. The principles laid down by the Central Appeal Judge, however, must be strictly followed. Furthermore, if Central fused leave to appeal or has disallowed the claim for exemption, leave-of-absence should not be granted, unless, in the meantime, a serious change has occurred
in the man's circumstances which would in the mans circumstances action. 5. No application for leave is to be
considered except in cases of extreme 6. All applications must be made in the first instance to the O. C., W. O. R., and must be accompanied by a statutory The Declaration should also state what Tribunals have dealt with the matter and what their decisions were.
7 . Many persons have been coming to London at their own expense to put in applications for such leave in cases
which, under the above mentioned rules, which, under the above mentioned rules,
were hopeless from the first and it is were hopeless from the first and rules
pointed out that a study of those rure. may save such fruitless quests in future. 8. The employment of counsel before the Leave Board is quite neeatess
and is now prohibited by Headquarters and is
Order.


THE FARMER'S ADVOCATE.
Education and the Fran-

## Cutter's

Germ Free Batalies Fititate Bladietec Tissule Agycresin
The New, Safe and Efficient Agents for Protecting Calves from Blackleg.
 leg.
Cutter's Blackleg Aggressin,
 sues, aroras even greater pro-
is antion and iscommended
for Pure Breds.



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| 50 |
| 50 |
| dose |



 Write for booklet telling what
Gree vaccines






## CUT'TER'S

 BLACKLEE PILLS"California's Favorite"
for nearly 20 years

 advantag Pricess
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50
50

 C
The Cutter Laboratory, Berkeley, Celif.

|||| Linseed Oil Cake |||




| Canada Linseed Oil Mills. Limited |
| :--- | :--- |
| Toronto and Montreal |

## JERSEYS and BERTSHITRES




Chise.
$\left.\begin{aligned} & \text { The state has seen } \\ & \text { wealth in erecting to spend enormous } \\ & \text { equitpping thecting public shools, in } \\ & \text { fact, edur }\end{aligned} \right\rvert\,$ weatin in erecting public schools, in
equipping then, in
fact, education, is paying salaries; in statesman or the one politice where the
on extravagance and not can border
one question. Why? and not be called in
regarded as regarded as the eecause education is
good citizenship. We walt ondition of
to goad citizenship. We want our people
to be an edurated people. Yet when we
come to come to lok into people. Yet when we
citizenship we fine requirements of our citizenship we find that education is not
once mentioned except it is required thet a man be sante enough to keep out of the
asylum. Twentyoyears in the conty-one years of age, three
subject, these ne naturalized British purposely leave out the requirements. I ment, that of male sex, because it is
rapidly being dropped. But which one
of the is it which ensures thaing qualifications ceiving the ballot has any real conception
of its value or its The followits use? how much intelligence is required to Federal a vote. During the second last important town in Alberppened in an
citizens who several citizens who had been born in other lands
were discussing the were ediscussing the affairs of the day.
"What's this procity thing that everybody is talking pabocty thing that everyexplanation. Another man to offer an just at that time and seeing the chance
for some fun he sin is a new fun he said, 'Why, Reciprocity make its mark. I tell just beginning to boys, asd in a few days there is dandy to be a great race between Recinocity and Dan Patch and a good many believe that the colt will win." Within a few
moments wagers were offered and accepted two to one, that Reciprocity would beat
Dan Patch. Those men citizens, and within a few days would cast their ballots to determine the trade
relationshins betwen relationships between Canada and the
United States. But to return to our subject. What
relationship can there be established between education and the franchise? Briefly
this that there should be sme e fucation this-that there should be some education-
al standard required for the franchise. It would seem that there is a natural
standard almost only to be recognized. The state pro-
vides an education as far as the end of the public schools absolutely free;
in fact, we go so in fact, we go so far as to try to force
every child to obtain this standard of
eduat ectucation wor this very reason that we
think it will make him a better citizen. Moreover, this standard is very nearly
uniform throughout the preme uniform throughout the provinces. Why
not standardize it and make it the bas not standarcize it and make it tre basis
of our franchise? Here, then, would be our
ideal compulsory education forced attendance at school, not in order order to secure the privileges of citizen${ }^{\text {ship }}{ }_{\text {Of }}$ affect the standing of anyone who is already enfranchised, nor could such a change be brought in suddenly. Time
would need to be given for all those who are now beyond the age of conmpulsory obtained their entrance certificate, time would need to be given them to get their
names on the voters' list before the change girls ten years of age and under could
not tay any charge of injustice if they were told to-day that unless they passer the examination commonny known as the
entrance examination, or its equivalent, they could not be reconnized as en
franchised citizens of Canada. made. There are still pioneer district
where adenuate school where adequate school accommodation
is impossille. Dispensation would have to be granted in such cases; sickness
would have to be taken into considera-
tiol tion, but every policy of reform, has ty
make room for exceptions. Only twar classes would in reality be delarred from
voril voting by this measure, thase who can
not learn, and those who will not learn An electorate where unteracy is de-
barred would do away with a grod many
of the sources of politital corruption. It may be argued that it is educated
men who devise orrupt methords, never-
thelossit is certain that an illiterate person is mere ration -if not, why should we
an eddation
spend enormous anount of mones in


Good enoush for town streets, yet chean enough for country roads
This street is just good macadam which has been "wearproofed" by spraying with "Tarvia-B" from a modified T -
Tarvia applied thus every three or four years is the cheapest known method of road maintenance. In fact, it lowers road before for rural highways. The old fear that macadam would before for rural highways. The old fear that macadam would
cost too much to maintain is removed-Tarvia makes the macadam endure.
The Tarvia actually enters into the road, cementing the stone together making a tough, plastic surface over the whole road, excluding water and Thousands of miles of cross-country States are tarviated now as a matter roads in the Dominion and the The main roads of
The main roads of whole counties in the States have been converted to are just as good as the nice residential street in Woodstock shown below

Booklet telling about the various Tarvia treatments free on request.
The Sodirats Company
MONTREAL TORONTO WITED WIPEG VANGOUVER
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Winnett Street, Woodstock. Ontario, treated with "Tarvia-B" in 191

## JERSEYS

The Lord might have made a better butter cow than
the Jersey, but he didn't."- Ex.-Pres. Green.
According to the R. O. P. records, a four-year-old and a mature
Jersey cow have each produced more butter in one year than any Jersey cow have each produced more butter in one year than any
other cow of any breed in Canada. For information, apply to C. J. C. C., B. A. Bull, Sec. Brampton, Ont

BRAMPTON JERSEYS
 B. H. BULL \& SON BRAMPTON, ONTARIO

 R M A CE Cod work our shed RECORD OF PERFORMANCE JERSEYS R. \& A. H. BAIRD Brampton senior sire, Bramption young bulls of serviceable age, all from R.O.P NEW HAMBURG, ONTARIO MPION HERD OF JERSEYS
 THE DON JERSEY HERD-

## Saving Money by Spending.

SAVING" money by continuing to use an N inferior machine is like "saving at the spigot and wasting at the bung." For instance, if your machine skims down to .1 per cent. for every thousand pounds of milk skimmed, compare that result with the splendid, proven record of the Renfrew You find by having the

## Benfrew

that you will save about $1 / 2$ pound of butter-fat per week for every cow. The Renfrew skims down to .01 per cent. That loss of $1 / 2$ pound means money With eight cows, and butter-fat at say 30 cents per pound, you would be losing every year ( 40 weeks' milking) the tidy sum of $\$ 48$.
This sum saved is accepted by us as a first payment on a Renirew. The saving soon pays for the machine-and then the $\$ 48$ per year for eight cows becomes extra profit.
Will it not pay you to discard the old machine for the Renirew? It gets all but the last three ounces of butter-fat in a whole ton of milk skimmed. If you could reckon the losses the old machine made the last few years,

wouldn't it decide you right $\underset{\text { away to get the close-skimming }}{\text { Renfrew? }}$

Our illustrated booklet gives in
teresting proofs of the Renfrew's closi skimming, including tests by Government Dairy Schools. It also explain
the Renfrew's self-oiling system the ine Renrrew's self-oiling systern, the interchangeable capacity y cature, easy
to-clean advantages, ctc. Send for booklet to-day.
Other Lines: Renfrew Kerosene Engine, Happy Farmer Tractor
Farmers' 2000 lb . Truck Scale.


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Eastern Branch: Sussex, N.B. Works: Renfrew, Ontario
Eastern Branch: $\underset{\substack{\text { Sussex, N.B. } \\ \text { Agencies almo }}}{\substack{\text { al }}}$
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Kent or Romney Marsh Sheep

 Cloverdale Shropshires and Berkshires -
Aheartina
and
 Shropshires and Clydesdales
 Morriston Tamworths and shomentari



## TAMWORTHS

ohn W. Todd. R. R. No. 1, Corinth. Ontario
Meadow Brook Yorkshires


WELDWOOD FARM
 YORKSHIRES

Winne stuck to of er WELDWOOD FARM

No

# Rennies War Time Production Seeds 

THE farmer will be well advised who make certain of a good crop of potatoes. In selecting your seed potatoes, get Rennie's-the best We have secured a supply of good seed potatoes absolutely free from disease; but the supply is limited and we advise you to send yourply order
right away.

## Seed Potatoes




prepaic, 1.30.
Ripens one week later than Improved Ohio. Aly potato of splendid quality
 xtra Early Eurelka-An extre ( tubers, of a shortened oblong form, thick throuriety and producing ofine large
flesh is firm and of good flavor. Bus, 9 , tew eyes. The Green Mountain-Its cropping pualitiog ( 90 lbs ), prepaid, $\$ 3.95$. breen Mountain-Its cropping qualities are phenomena, and we
believe be one of the heaviest fielding potatoes grown, Its productive-
ness is largely attributable to the crowning meryit is its superb cooking quality. Bus., $\$ 2.75 ;$ bacg ( 90 , lbut). fis
prepaid, $\$ 3.95$.
Gold Coin-
The flesh is fine-grained, and cooks to a dry, floury whiteness, Buan on $\$ 2.75$ :
bag $(90$ lise.), prepaid, $\$ 3.95$.

| Study | Our 1918 catalogue contains infor- <br> mation that no farmerer should be <br> without. Watch especially the par- |
| :--- | :--- |
| Tours | agraphs enclosed in the star borders <br> containing special values that can- |
| not be beaten. |  |

When buying from dealers inaist on Rennie's Seeds.
1- TVTTTTTE COMDANT
 KING Se MARGKET STS TOROM TO

## DUNLOP TIRES <br> Special Tread"-"Traction Tread <br> Long in Service

More People buy DUNLOP TIRES because they have to buy them less often.

## Market Your Wool This Year Co-operatively

## What co-operation is doing to raise prices and stabilize the market in Ontario

## Last Year-

About 300,000 pounds of wool were sold co-operatively in June at Guelph at new, high-record prices for Ontario. Before the sale wool was ranging anywhere from 5 cents to 20 cents per pound less than the average Guelph price. The very fact that a Co-operative Sale was in prospect, of course, tended to stiffen the market prices. It is safe and fair to say that the Sale influenced the wool prices at least 10 cents per pound in favor of the Ontario wool grower who sold through the Ontario Sheep Breeders' Association. That means $\$ 30,000$ more cash on the 300,000 pounds.

And that isn't all-as soon as the Co-operative Sale took place it fixed new high prices from which every grower benefitted. Ontario wool growers who sold their clip independently, after July certainly got a higher price than they would if there had been no Sale-at least 10 cents per pound more. On a total of say another 300,000 pounds of wool that means extra cash amounting to another $\$ 30,000$.

If enriching the wool growers of Ontario in one season to the tune of $\$ 60,000$ isn't evidence of the value of Co-operative Wool selling, then what could be?

Ontario Wool Growers-to a man, you are invited to send your Wool to Guelph for Co-operative Sale this year. If every one will get behind this movement it will simplify and encourage wool buying and put every one of you in touch with your final customer
-and you know that always means more profits for you.

This Year
With the experience of last year behind us we be lieve the farmers are justified in selling their Wool co-operatively through the Ontario Sheep Breeders' Association.

All Provincial Wool Growers' Associations are now united, forming the Canadian Co-operative Wool Carowers, Limited. This Company will sell Wool direct to the manufacturers, thus bringing the farmer in direct touch with his final customer without the intervention of several middlemen-who, of course must always have their profits

If the bulk of the Wool in Ontario is marketed in this way there is an added inducement for buyers to bid on Ontario Wool

The method of preparing the Wool for market by using paper twine in jute sacks ensures to the manufacturer a product put up in the best possible condition.

The fact that the wool is graded gives the buyer ful! information as to the product offered; he knows exactiy what he is getting and is willing to pay full value for it.

By making application, the farmer can get full supplies and he can ship his wool without pre-paying the freight. As soon as the wool is received in Guelph it will be weighed and an advance payment of about $75 \%$ of the estimated value will be sent at once. and the balance after the sale of the wool

Application form and full information, also twine and sacks will be furnished by your District Representa tive or by the Secretary of the Ontario Sheep Breeders tive or by the Secretary of the Ontario Sheep Breeders'

Some Pointers to be Observed When Shipping Wool to the Ontario Sheep Breeders' Association.

The fleece should be placed with the clipped surface down. Then fold in the sides and roll from each end to the centre, after having carefully removed the dung locks, and then tie with paper wool twine. Never tie the fleece with sisal or ordinary binder twine, and avoid tying with neck portion. The dung locks should be placed in a separate sack from the fleeces.

The fleeces should then be packed in wool sacks, or in case of small shipments of 15 fleeces or less use ordinary jute bran sacks, being certain the inside surface is clean.

The wool will be graded by wool experts of the Live Stock Branch, Ottawa, and will be sold through the medium of the Canadian Co-operative Wool Growers, Limited, which insures all profits to you.

A CHEQUE REPRESENTING AN ADVANCE OF ABOUT $75 \%$ OF THE APPRAISED MARKET VAL.UE OF THE WOOL WILL BE SENT IMMEDIATELY UPON RECEIPT OF THE WOOL. THE REMAINDER WILL BE SENT UPON COMTHE REMAINDER WILL

The Canadian Co-operative Wool Growers, Limited in selling the Wool will charge only actual operating expenses.

For your information, the following are the Direc Brien Ridgetownio Sheep Breeders' Association: J. D Brien, Ridgetown; James Douglas, Caledonia; E. Rob son, Denfield; J. E. Cousins, Harriston; W. H. Beattie Wilton Grove; Cecil Stobbs, Leamington; George L Telfer, Paris; James Bowman, Guelph; H. M. Lee Highgate; W. Whitelaw, Guelph; J. W. Springstead Abingdon. The Officers are: President, James Douglas, Caledonia; Vice-President, George L. Telfer, Paris; Secretary, R. W. Wade. Parliament Buildings, Toronto.

Mimister of Agriculture

DR. G. C. CREELMAN,


[^0]:    Sale Dates.
    The WFatt-Gardhouse Short-

[^1]:    Seed Grains
    O. A. C. No. 21 Barley, Bunker King Oats
    O. A. C. No. 72 Oats, Silver Hull Buckwheat, Centennial Peas. Ask for our prices on Mangels, Turnip Onions, Potatoe
    seeds of
    If $i$ all kinds. Inserd need of feeds, write us. We can supply
    Gake Meal, Corn Oil Cake Meal,
    Gluten Feed Corn Meal Re-Cleaned Standard Screenings,

    CRAMPSEY \& KELLY

    We aro Abfindeen-ANGUS CATTLE
    

[^2]:    "Strike while the iron's hot,"
    "Ife good old blacksmith said.
    You must hit it while it's red."

