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T${ }^{\top}$ HE service rendered by En-ar-co petroleum products in aeroplanes and other motors of war can be duplicated in your tractor, automobile, gas engine or other power machinery. You can experience the same increased power, longer wear and smoothness of operation. You can benefit by nearly 40 years of experience in Scientific Refining.

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Start the season right. Insist on En-ar-co Products. Ask the dealer nearest you. If he has not yet received his stock, send us your order on the attached coupon. Don't be satisfied with less than En-ar-co - the best.

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## Canadian Oil Companies, Limited



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Heavy "IDEAL" Fence
Made throughout of Full Gauge No. 9 evenly
Galvanized Hard Steel Wire. Carried in stock in 20, 30 and 40 -rod rolls.

 No. 630 c ㄴ․․․․․ $=44 \mathrm{c}$.


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## medium heavy <br> "IDEAL" FENCE

Made throughout of Hard Steel Wire, evenly Galvanized. Carried in stock in

No. 611
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Improved "IDEAL" Farm Gates
Horizontal wires all No. 9, only 6 inches apart. Upprights No. 12 wire, 6 inches apart. Dilgon-chicken- 13 , furnish a strong, close mesh brace tightener and latch-the biggest gate improvements in years.


> Height,
inches
36
42
48
36
42
48
48
36
42
48
42
48
48
48

48 | Price |
| :--- |
| 3.15 |
| 3.30 |
| 3.40 |
| 3.40 |
| 3.30 |
| 3.40 |
| 3.75 |
| 4.00 |
| 6.75 |
| 7.00 |
| 7.05 |
| 7.25 |
| 7.25 |
| 8.75 |
| 8.00 |
| 8.25 |
| 8.75 |

Improved "IDEAL" Stock Gates
Wirg filling No. 9 throughout, same as Heavy IDEAL"' Fence. No fence filling used.

Carried in stock in following sizes only: 12 feet long, 51 inches high, each....
13 feet long, 51 inches high, each. 12 feet long, 51 inches high, each
13 feet logg, 51 inches hight each
14 long. 51 inches high, .87 .25
.7 .50

Fence Supplies, Brace Wire and Barb Wire
 Hand Stretcher each. eaca............
Universal Post Hole Digger, each...
Galv, Staples in $25-1 \mathrm{~b}$. boxes.



## Barb Wire



## How to get big, delicious loaves of bread

FIRST of all, remember that all wheats are not alike, owing to differences of soil, climate and seed. No two mills grind just alike. Naturally the best equipped mills grinding Nature's finest Wheat can give you the most complete satisfaction with your bread recipe. Make certain of splendid big loaves of delicious and most highly nutritious bread by using

## Cream of West Flour

## (Milled according to Government Standard)

The whole world seeks the Western Canada hard wheat. Why? When you realize how rich it is in gluten, you know why Cream of the West is famous for splendid big loaves of bread. The gluten is not only highly nutritious but, being an elastic substance, it imprisons the bubbles of yeast gas, thus making your bread rise into great big swelling loaves that will delight you and make you proud of
your baking every time you use our flour Due to the most modern and up-to-date equipment, including testing laboratory, Cream of the West flour is always the same high quality-it never varies, never disappoints you. So far as the flour is concerned, your recipe always comes out right. Certainly you should give Cream of the West a right good trial. Then you will use it always.

The Campbell Flour Mills Co. Limited, West Toronto


Founded 1866


LIV:

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

## EDITORIAL.

## Sparks are now flying from the political anvils

Europe will have to quiet down soon or next winter will see empty cupboards there again.

Don't allow spring to take you unawares. Have the seed grain cleaned and the implements in repair.

Pullets hatched late in March or early in April mak the best winter layers. Speed up the broody hens!

Germany certainly needed a greater chastisement than she got from

If R. O. P. work is commenced with poultry the inspectors will be able to look a hen in the face and make her confess to any misrepresentations in her alleged production.
members would sessional indemnities to parliamen to the people's business with the same dispatch as the do their own when at home,

Canada should keep every high-class, pure-bred sire in the country and raise the standard of quality so we can more successfully compete with our rivals on the markets where we dispose of our products.

Farmers who are obliged to hire help should give the farm-cottage idea a very thorough consideration A small house for the hired man makes it much more pleasant for all concerned and, furthermore, it makes it
possible to employ a more experienced class of help.

A woman's organization in Brantford, Ontario asked that military training be continued in the city schools after a council composed of men had seen fit looking to woman suffrage as a means of establishing universal peace.

Without taking into consideration the effect of generally it is ens thata or generally, it is easy to see how it will tend to make the dustries in all the countries involved will be working on a basis of international party so far as the hours of labor are concerned, but, of course, the price of labor will affect competition between nations. In spite of make hay while

The West is divided on the question of price-fixing in regard to wheat. Many growers require protection in order to survive the effecs of several lean years, the 1918 crop to keep it down the price was set for is still another class of beginners, including many unfortunate settlers, who consider theirs an "infant industry" and, according to Canadian traditions, entitled to protection. The United Grain Growers believe that the most desirable method of marketing our 1919 wheat cróp would be for the Dominion Government to sell our exportable surplus of wheat and flour at a fair price, based on world values, to the British and Allied Governments. Such a price, mutually agreed
upon by the farmers of Canada and the Allied Govern ments, could be made a fixed price until August 31, wheat for donestic course, govern the price of flour and are opposed to opening the wheat market on the old basis, which allows unrestricted speculation.

## Farmer Members in Parliament.

Readers will find the analysis of the House of Commons, published in last week's issue, exceedingly valuable for future reference. The last column, particularly, has a direct bearing on the legislation which is likely to be enacted, for therein is shown where the interest of the majority of the members lies. By giving every would-be farmer the benefit of the doubt and including all those who acknowledge any connection with the soil, there are 35 farmer members. Of these 23 come from west of the Great Lakes, and 12 from the eastern provinces. Prince Edward Island sends 1 farmer to Parliament, and in this regard she is just one ahead of Nova Scotia; New Brunswick sends 2; Quebec sends 3, and Ontario 6. There are 4 Manitoba farmers in the House, 10 from Saskathewan, 5 from Alberta, and 4 from British Columbia
Agriculture being the "backbone" of the country, one would naturally expect to see its representative preaoninate in the House of Commons, and if there on the speach from the Throne would have acbate less than als the time it did. Ferperince would bied ess than half the time it did. Experience would bave laught them to make hay we che sun stines, and hey wold have proceded haur some of Pa legisla Instead nstead of getting cown to dusiness the House has been subjected members may remain in Ottawa and enioy these oratorical pastimes.

## R. O. P. Poultry Work.

Among other things accomplished at the recent Dominion Poultry Conference held at Ottawa under the auspices of the Dominion Department of Agriculture, was a concrete proposal for the estabishment of Record of Performance work in pouitry. Yo a great many people this will appear an impossiovity on the face of it , because of the fact that trap-nesting can be employed by comparatively few persons, and because this is the only way by which the performance of a hen can be ides than one to the question, and it is in no small measure due to the quiet but persistent efforts made in recent years by poultry investigators and enthusiasts in the direction of a scientific and systematized study of egg production, that such a seemingly impossible ask as R. O. P. work with poultry seems now to offer air chances of success.
Whether the recommendations of the Conference are acted upon by the Dominion Government or not, the cheme will be tried out in Canada, since, although the work is obviously Dominion in scope and there appears 10 reason why the Federal Government will not underwith it, should the Department of Agriculture at O atead at see fit to lo lo lt now appears possible to tha vork successfully by checking the trap-nest records ork inspectors will be able, by a physical examination of he individuals in a flock to tell whether or not the of tecord gept by the owner is substantially corregt Recent advances in poultry husbandry now make it possible to tell with almost uncanny accuracy how many eggs a hen has laid or will lay
One of the most marked advantages to be derived from a system of R. O. P. records in poultry should be oo bring the fancier more nearly on a utility basis. arm flock, and yet the breeder of fancy stock is the logical source of supply for improved stock. He has been inclined during the past, however, to sell eggs from his whole flock on the basis of the records made by a very few individuals. A real utility basis is needed badly, and while, during the last three or four years
travel in the directio of greater utility, many of them have failed utterly t realize that the modern hen is a worker and not merely an ornament. It will take some years for any R. O. P work that may be started, to make itself manifest, but we can see no when suh Chould not do records have dhe pourtry industry in Canada as min records have done for the dairy-industry, As.a matter or interest, it also worth iong Cain we step in poultry raising.

## Alfalfa Versus Sweet Clover.'

 In the Farm Department of this issue a note of warning is sounded, regarding sweet clover, by the Central Experimental Farms, where considerable fear seems to persist regarding a crop which farmers (in spite of the doubt and indifference shown by experiment stations regarding it) have proved to be a valuable pasture crop and soil renovator. Alfalfa is held up a is quite and preferable to this variety of clover, which for more than 15 years and its limitations are pretty well understood. Taking all things into consideration, alfalfa, if it can be grown, is superior to sweet clover, but it has been found that on a great many farms alfalfa will not stand, and the whole question hinges on this point. Knowing the shortcomings of alfalfe under their own peculiar circumstances many farmers set out to investigate sweet clover while the experiment tations pooh-poohed the idea. The outcome is that he "weed fear has been dissipated. It has been ound a splendid pasture crop, and, in this •regard, a eal test might show it to be superior to alfalfa. As air as "its peculiar flavor" is concerned, our milking herd pastured on it last summer and no strange flavor was, detected when the milk and cream were used in the house, neither did the creamery where we sold the ream raise any objection. Sweet clover can be adapted a short rotation better than can alfalfa, and as a oil renovator sweet clover leads again, because it will thrive on poor soil where alfalfa will have a struggleWe do not wish to belittle the value of alfalfa. Where it can be grown successfully a farmer is not wise o displace it with sweet clover, but we desire to show he latter crop up in its true light. Sweet clover shines a pasture crop and as a soil renovator, and from our experience whe recommend it for these two purposes.

## Getting in Deeper

The war is practically over and now, it is said, "prices must come down." Many have considered that agri-保 pring overcoat or a ir of er or fittle concern but $\$ 1.25$ to $\$ 1.50$ for a bag of potatos cause a e emitted that would soften the heart of a wail to The Provincial Government recently completed a farm survey in the County of Oxford, where it was found hat farmers received $\$ 2.191 / 2$ per hundredweight milk which had cost $\$ 2.17$ to produce. If there is any ther industry in Canada that will operate on as amy margin, the directors and shareholders are entith o a knighthood and their names should be inscribed in the Hall of Fame.
When prices, for one reason or another, soar too high the practice has been to use a broad-axe on the value of agricultural products, while the prices of manufactured goods have been smoothed off slightly with a ery fine quality of samopaper

Apparently the Dominion and Provincial Governments intend to engage in an orgy of building. This,

## THE FARMER'S ADVOCATE

FOUNDED 1866

## The Farmer's Advocate and Home Magazine <br> the leading agricumural journal in the

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## Joun weld, Managet.

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probably treep the value of labor so high that farm help of a suitable kind will not be available, and, more than that, farms will be abandoned in order that the owners may share in the temporary prosperity accompangg such build able attention is paid to agriculture so it will be enabled
to employ, with profit, a goodly amount of help, and unless a fair percentage of labor is willing to engage in farm work there is little chance of the price of farm produce coming down, for production will drop to a
low ebb. We recently heard a retired farmer, who had been working at carpenter work at 50 cents per hour, say that he never had so much money in his life. This an extravagant building program will only accentuate. Agriculture shrould be made the big thing, now that we
have heavy interest charges to meet and a stupendous mortgage to discharge. The Government housing scheme and the immense building program will only tend
to keep the cost of living at a high level and plunge

## If a large building program is the only means of

 preventing unemployment, let the labor so utilized beengaged in the erection of cold storagec interior Government elevators, local warehouses. with produce, and other buildings that will help us along for the farm and it
nation. Ontario has asked for a large public elevator
Halifax. Such as these will yield a greater revenue
than palatial post offices erected to atlorn some city
lots, and they will bring more real prosperity to the
reduced in size rather than increased. Hosf itals are
necessary, our educational institutions mint be emlarged,
but all this building will not bring quict and content.
ment. Everything has a fictitious value; we are living rom this dream to realize that in the soil of Canad? is our wealth, and upon it labor must ine expermetel in
pay off our national debt.

## Daylight Saving Keeps Sandy

 Awake.
## BY SANDY fraser

It's that Daylight Saving Act that's keepin' me
awake at night these times. Jean asked me the ither awake at night these times. Jean asked me the ither
night what wis the matter that I wisna' makin' the night what wis the matter that I wisna' "makin' the
windows rattle wi' my s. snoring, as usual. "h.". says I, wind owe rattle wi' my snoring, as usual. "Oh," says I,
"I hae got to worryin aboot the danger of $o$ " Civil war in this great country o' ours. It will be an aw, vering question of which '' 'them is gaein' to rin the clock. The city-folks want tae put it ahead an hour, the way. we had it last simmer, and the farmers want to leave weel
enough alane. I'm afraid somiebody's gaein' to be hurt, enough alane. 'T'm afraid somiebody's gaein' to he hurt,
an' us juist gettin' over that scrap wi', the Kaiser that an' $^{\text {n }}$ us juist get
we got in
"Gang tae sleep," returns Jean, as though I wis a worry aboot a thing like that. Leave it aff till tomorrow onyay.
Sae the next day I got tae thinkin' aboot the matter in earnest and wonderin' if there wis ony way to bring aboot an armistice between oor friends in the toons and oorselves, that
hour we should get.oot o $0^{\prime}$ bed in the morninn,
For mysel'. (when it comes te tettin' aroond or
over a difficulty, I generally tak' the line o' least resistance, as they, say, and on the whole it hasn't warked sae badly. When there's na ither way to get yer rights
I believe in fightin' for them tae the last ditch, but I believe in fightin' for them tae the last ditch, but ither times I believe in bein' rea
case oot to a sensible conclusipn.
Sae last spring, wherr the Government informed us that they were gaein' tae pit the sun back an hour unless warks wi' me, says I. "what dae ye say Jim aboot settin, yer watch by Borden this summer and gettin' up in the we hae been use to daein', and then finishing up the day "It's a' the sate tar
that it maks ony difference sae long Jim. "I canna see my watch an' get tae worrying aboot it. What ye dinna my watch an get tae worrying aboot iat. "'
Sae, last simmer, we kept the auld cleck up tae
date but-we waited till it was six before we turned oot to gang for the coos in the mornin ${ }^{\prime}$, and then in case we might no be able to dae justice tae oor dinners the
auld wumman use to call us: free the field at twelve instead o' at eleven, as used to be her habit. After that it wis na mair than ordinary hardship tae worry alang
till seven in the evenin' by which time I used te coll on havin' the, chores oot $\mathrm{o}^{\prime}$ ' the road and be in a fair way to makin' a start at my supper.
And ing no every farmer that can get his help tae see things in the light that maks them willin' tae wark
later than six o'clock at night. This is where the chap later than six o clock at night. This is where the chap
that wants to stick to the auld time gets his best argument. The auld saying wis, "mak' 'hay while the sum mhines" and it never shines better than it does sometimes between six and seven o'clock in the evenin In fact, it's the best time o' the day to, be ori the job Ye ken ye're soon goin to quit, ye see. It's juist aboot
the time some farmers seem to get doon to tusiness There's anither man I hae sot doon butiness,
That is the chap that's shipping milk into the city too, has to get his coos milked and the thilk cooled and carted to the station in time to catch the morning train that always seemed to run plenty early enough on the
auld time, but which, on "Borden's stime," is what ye might call an "eye-opener." And there's mony anither branch it wis pit oot o' ${ }^{\prime}$ joint by this meddlin' wi' the clock.
In fact ${ }^{\prime} \mathrm{m}$ thinkin' that it will Government to pass ony measure o' the kind in this has his ear to the a wroond, and, gin that's the case case juist an idea in regard to what direction the wind is comin an' representin' a constituency where there warliament a guid favor o' keepin' oot $\mathrm{o}^{\prime}$ any mix-up between the clock
an' the sun, that is, if wanted -ae hang on to my iob. And I notice that maist o' the chaps, that we send up tae
Ottawa tae represent us in the Hoose there, dinna mind being asked to gae back for a second term,
But after all, tae gae back to what I wis worrvin' aboot in the first place, it's an unco pity that we farmens
an' the folks in orer towns, an' cities. canna mak' oot
tae be on better terms wi' ane anither the on hae come between us onither. A late yearid mony
things hat read
a letter the ither day frae a city man in which he made oot that the farmer wis aboot the only real
specimen oo a dyed-in-thewool profteer an' money-
grabber to the found in civilized countris. Of coorse this chap never thought to inquire as to- how. in' his profits, and frae the distance process on ot gatherin-
sometimes, to see mair than one hard,
ond such letters comin' frae the town are no' calculated to
promote guid feelin' and the replies that are sent tae they may hae a wee bit o' ground for some once that nfter they got their first money la loo close-fisted awa' until
an the bank oorselves, and first thing they hae us doon for o d watch

[^0]few clock and watchmakers on it to settle oor difference in time.

## Nature's Diary


$\qquad$ The skunk has
emerged from its winter
and is wanderingabout see
field mice or tibiberating
sects. We have three spe
of skunks ive in Canada,
Canada Skunk, which rain
from the Atlantic from the Atlantic as far
as the forested portion of toba, the Northern Plains Skunk, which is found Manitoba to the Pacific Slope, and the Puget S the Pacific coast. In the Canada Skunk the tip of : tail is white, while in the other two species the th black; the former species average about twentyinches in length, while the other two are twenty-eiop nches or over in length.
The chief interest in the skunk centres in its mos afficient method of defending itself. A skank is
afraid of anything, it travels well armed and it itraid of anything, it travels well armed and it know not attack a skunk unless rendered desperate by huir The "smell-gun" of the skunk consists of two mina glands, the ducts of which open within the rectum but can be protruded for action. So powerful is the fluid ejected from these glands that it causes temporary burning sensation if it reaches the and a choking and a "repeater" as a skunk can fire about a doren "s gun in succession, and can shoot forward, over its head well as backward. The spray can be thrown tance of about six feet, or if with the wind, some ter feet. A skunk usually gives three warnings before it fires first by stamping the feet, second by raising t tail. Naturally if suddenly attacked these tip of the motions are omitted suddenly attacked these warn The word "skunk"
animal among the Abenaki tribe-Seganlku
The home of the'skunk is a burrow, usually loca
on a hillside, or a den among the rocks. Sometimes i excavates its own burrow, but often uses one made by groundhog or badger, or enlarges a burrow of a grouni squirrel. A nest of soft grass is made at the

The young, which ūsually number from 4 to 6 , are they are about end of April or early in May, At by show the characteristic of a mouse, and are natand ears are closed. The musk-glands become furictiont when they are about a month old, and at three month In fact able to defend themselves as well as an ad than an older one, as it has apparently not yet leam that it is usually enough to threaten. The young remal in the den until about mid-summer when they begin to follow the mother about. Seton says that the fat rejoins the family at about this time, and they wa about their range every night, retiring to some retrea at dawn. By October the young are full grown, an
the family spends the winter together in their den hibernating some time in November and emerging early in March. The young scatter in the spring and they apparently breed when a year old.
The main food of the skunk consists of insects mice. But its, grasshoppers and crickets, and field food that it also takes anything in the way of animal frogs, the eggs of ground-nesting birds; and such birds doubtedly does far and capture. On the whole, it unand insects than it does harm by bird-killing and eggContrary to the usual opinion skunks make very
good pets, being interesting, gentle, playful, affectionate good pets, being interesting, gentle, playful, affectionate
and cleanly. By an operation on the ducts of the musk glands they may be rendered incapable of "shooting, but Dr. C. Hart Merriam, of the U. S. Biological Surver who has kept many of them as pets, says that most of them skunks were not operated upon and that "none of
thed any odor, although a couple of them, when half grown, used to assume a painfully suggestive suggestive indeed that the approach of strangers. hasty retreat." Writing of one of his pet skunks,
"Mep," which had been operated upon, Dr. Merriam says: "Which had been operated upon, Driving about the country he usually slept in my pocket. After supper I commonly took a
walk, and he always followed close at my heels. We used to walk to a large meadow which abounded -in grasshoppers. Here "Meph" would fairly revel moned
favorite food. When a grasshopper jumped, he jumpet. and I have seen him with as many as three in would eat
and two under his fore-paws at once. He woun so many that his over-distended little belly actually dragged on the ground. . His nest was in a bo. enough to climb out by himself he would, whenever he resting on the edge of the box, and beg to be carried upstairs. If I passed without appearing to notice him,
he invariably became much enraged and chippered and scolded away at a great rate. He was very sprightly and frolicsome, and used to hop about the floor and rum Hem room to room in search of something to play wing steal softly up to my chair, and, standing erect, would claw at my pants,
fast as his legs could carry him.

## THE HORSE.

## s Diary. <br> UGG, $M$ The <br> is wa <br> We hibout seck <br> nada Sk the forested portion of Skunk ope, and t he is found in <br> extreme southern <br> ther two <br> aver ather twa <br> skunk centres in its gg itself. A skunk s well armed and it ters know it too and ink consists of two musk open within the rectuk open. Within the recturn tion. So poweful is th that it causes temporat eyes, and a choking sit the nostrils. This fire forward, over its he of with the wind, sonic et, second by raising th ird by raising the tip of t ived from the name o ribe-Seganku the rocks, Somaly toften uses one rges is

 number from 4 to or early in May. At mouse, and are nake in; they are blind and th old, and at thre functiona iselves as well as an adduitar more likely apparently not yet leanet reaten. The young finned ㄹ. time, and they wander retiring to some retreat catter in the spring and yar old. and crickets, and field ing birds; and such birds on skunks make ver , playful, affectionate capable of "shooting, Biological Survey
says that most 0 pon and that "none o. a painfully suggestive pproach of strangers-s commonly beat a
his pet skunks, country he usually
I commonly took a lose at my heels. We
ow which abounded in per jumped, he jumped, once. He would eat His nest was in a boos and beg to be carried ged and chippered and about the floor and rum chair, and, stan of ing

## Leg Ailments in Horses.

 Continued.
## Lymphangitis

Next to erythema (which has already been discussed) lymphangitis is probably the most common
"leg ailment." It is a dietetic disease, usually induced by heavy feeding and want of exercise. It is known by a variety of names, as "weed," "a shot of grease," and "Monday morning disease." It consists in in flammation of the lymphatic glands, usually of one or or limbs are attacked. Some horses are congenitally predisposed to an attack, which in horses that are at regular work and slightly fed, follows a rest of a day or two, during which time the animas it occurs without rest; and is then supposed to be due to a highly-fibrinous condition of the blood; and it is oecasionally noticed in
horses in poor condition, in which case the pathology forses in poor
Symptoms.- The local inflammation is usually pre-
ceded by rigors (a shivering fit) which often occurs at ceded by rigors (a shivering fit), which often occurs at night, hence is not notice. hours , and as a rule the severity of the attack is denoted by the intensity of the rigors, which is accompanied leg is manifest at an early stage. The rigor is succeeded by well-marked increase of temperature. The patient nows and may exhibit symptoms resembling those of paws and The pulse is full, strofig and frequent; the visable mucous membranes injected; bowels constipated,
the secretion of urine scanty and highly colored.
The local inflammation is manifested by swelling thigh) when the hind the brachial glands (those on the inner surface of the fore arm) when in the fore limib. In many cases the first symptoms
are observed when the teamster or groom goes to the stable on Monday morning, after the horses
bave rested since Saturday evening or any day evening, or any of a greater or lesser
period. He asks the horse to move, and then notices that he is lame. It is
remarkable that the off hind leg is more frequently
involved than any other and no reason for this
fact can be given. If the hand be passed with slight pressure from above down wards on the inner surface as the case may be hea and tenderness will be de tected. If in the earl
stages the surface will have a somewhat beade
condition to the touch but as the disease ad
vances the swelling creases and this peculia
ity can no longer be detected. - The patient is usually very lame, and does not care. to move or put wiethty
upon the affected limb, and if the part be pressed upon the affected limb, and if the part be pressed
intense pain will be shown by violenitly lifting the limb and in extreme cases the patient may moan or shriek. The swelling usually extends rapidly and involves the
whole circumference of the limb from body to hoof, As the swelling increases the pain and lameness usually become less. There is usually a more or less marked loss of appetite, but in ordinary cases this is not well
marked. In rare cases there is the formatiort of abscesses, but this is seldom seen except in a contagious Horm of the disease practically unknown in this country.
Horses that are predisposed to the disease are liable to a recurrance of the malady on slight provocation.
One attack succeeds another and after a few attacks or in rare cases the first, it is noticed that the swelling
does not entirely disappear, and it becomes greater does not entirely disappear, and it becomes greater
after each attack until the limb assumes a greatly en-
larged larged and incurable condition called "elephantitis. giving horses. that are highly fed and predisposed to an or largely substituting bran for grain during idle days.
In fact, it is good practice to reduce the grain ration of any horse that is worked regularly and highly fed, if he is about to have a rest for a day or longer.
Curative treatment consists in the administration of a purgative of 6 to 10 drams aloes (according to the of a purgative of 6 to 10 drams aloes (according to the
size of the patient) and 2 to 4 drams ginger, and feeding
bran only In the meantime water from which the chill has been removed should be given in small quantities and often.
If considerable pain be expressed If considerable pain be expressed, an anodyne, as $11 / 2$
to 2 drams of the solid extract of belladonna, or $11 / 2$ to 2 ounces chloral hydrate, may be given in a pint of warm
water as a drench, but this is seldom necessary. If the water as a drench, but this is seldom necessary. If the


Heavy Draft Type as Represented by a Shire Mare
 dvance of what the average breeder is attempting

Do not feed all the roots to the mature stock; keep
ufficient to do the calves until fresh grass is ready to cut.
Trim around the ewes udder before lambing tim and so lessen the danger of the lambs getting wool int stomach.
Don't allow hay or straw.to be wasted, there are before the cattle go on grass.

Rape or clover makes excellent pasture for hogs. Are you planning on saving grain this summer bypasturing
the hogs? Sows and shoats can advisedly be turned to pasture.

Our agricultural colleges are training students to be competent judges of all classes of in feeding and handling

The farmer can have his meat at cost price by butchering some of his own stock and curing the meat sor summer flavor surpang that which is on sale in the shops

One right good female, with desirable breeding and of a pure-bred herd than a half dozen nondescript pure of a pure-bred herd than a half dozen nondescript purebred females. When starting in the pure-bred business
it pays to start right, even if it does cost a little more

Fleming's tincture of aconite in $1 / 2$ pint of water may
be given. The patient must be warmly clothed and excluded from drafts. It is good practice to follow the purgative
with 2 to 3 drams nitrate of potassium twice daily for with 2 to 3
2 or 3 days.
Local treatment consists in bathing the painful parts ong and often with hot water, and after bathing be cold weather, unless he can be kept warm, and drafts excluded, the bathing should be dispensed with, at a draft of cold air after bathing would cause such reaction as to complicate matters. He should be allowed to stand idle until the acute soreness and lameness have disappeared, and then he should get regular exercise, acute stage forced exercise reduces the swelling and removes the lameness, but so soon as the patient is again allowed to stand, both reappear, and it has been noticed that each time this occurs during the inflammatory stage a portion of the swelling has a tendency the inflamm org stage has passed the swelling will
 Hand rubbing and banding between the hock and foot, or knee and foot as the case may be, tends to prevent the swelling after it has been dissipated. Some authorities advise regular work during all
tages, but the experience of most practitioners has been

## LIVE STOCK.

Forty-eight head of Duroc Jerseys averaged $\$ 486$, by
uction, at Longview Farm, Missouri.
Young stock infected with lice does not thrive. Kill Ye vermin before it damages the stock.

What are Experimental Farms Doing

## for Canadian Live Stock?

by prof. e. s. archibald.
The work of the Division of Animal Husbandry in the Dominion Experimental Farms system consists, at Ottawa, of the commercial and experimental breeding, of live stock, the preparation and marketing of dairy products, and the supervieion and assistance of similar ork on all the branch farms and stations.
, was frst formed in 1911, live-stock work on the Experimental Farms previous to that date and since 1911 the scope of the work in Animal Husbandry has greatly extended. Some idea of this extension may be gained from the fact that the total number of live stack carried on all the Experimitental
Farms and Stations in the system has incresed from Farms and Stations in the system has increased from
1,036 in 1912 to 4,967 in 1919, and the percentage of 1,036 in 1912 to 4,967 in 1919, and the percentage of
breeding stock is much higher in 1919. During this period, the number of beef cattle on the Farms have increased from 162 to 428 , dairy cattle from 216 to 849, horses from 109 to 371 , sheep from 303 to 2,068 , and swine from 246 to 1,256 . On Jan. 1, 1912, livestock work was carried on at only eleven of the farms,
while on Jan. 1, 1919, twenty-one Experimental Farms while on Jan. 1,1919 , twenty-one Experimental Farms and Stations in the system carried live stock. On the new breeding work has been done, as well as experimental Work in feeding tests and trials of various feeds, while live stock work has been introduced on many of the more newly-established Experimental Stations of the system, Beef Cattle.

Although some breeding work with beef cattle is being carried on at some of the branch Farms, the chief
investigations with this class of stock havebeen along the lines of feeding experiments,-the most of the steers being purchased in the fall and fed during the winter in accordance with the conditions of the experiment.
Data showing the exact amounts and costs of feed used, the total and daily gains made, and the details of profit or lose on the whole tranoaction ere careftily collected good profit,
One experiment, conducted for a number of years at
Ottawa, had for its object the discovery of best methods for the production of baby beef, and this work was also carried on at Nappan, N. S. In an endeavor to discover the best breed, grade or olass of steer to purchase for feeding purposes, experiments have been carried on ville and Lacombe, in which the relative profits from
steers of different breeds, butchers and stockers, dairy bred and beef bred, choice and inferior steers were compared. The losses from dehorning steers have been investigated on several of the farms, while other experiments have to do with the living conditions of the cattle
during their feeding, period, such as comparing the gains of steers fed loose with those tied, feeding in ones, for a long period and a short one, have also been carried out.

The question of shelter for cattle is receiving special attention, especially on the Western farms, where steers
fed out of door's with no shelter haveitheen comper fed outh stall-fed steets loose and tied, and the resulto with wheers fed zinder different tinds of roigh results with also been yoted. At Ottawa, experiments are clearly proving that the expensive barils for winter finishing
are unnecessary. The cheap, sincle-board, opensfont are unnecessary, sheds are with less the cheap, single-board, open-front of feeders and one-tenth the cost of buitdings, giving just as great gains for feed consumed as the expensive structures, Farmers, especialy in Western Canada,
are not slow in applying the results of such experiments to their own conditions.
In order to find the best and cheapest kinds of feed for beef cattle in different parts of the Dominion,
feeding experiments have been carried on with alfalfa, feeding experiments have been carried on with alfalfa,
straw, different kinds of hay, roots, and all such farmgrown feeds in which these roughages have been com-
pared with concentrates and with each other whil value of frozen wheat, different classes and mixtures of meals, have or are being tested. The results of these tests have been largely used by Canadian beef feeders. The question of heavy vs. light grain feeding in meals and grains is now given special attention.

The development of a good milking strain of ShortFrederiction, N.B.; Brandon, Man, and Indian Head Sask., and breeding work with beef cattle is also under way at Lacombe, Alta., with Aberdeen-Angus, and at Nappan, N.S., and Kapuskasing, Ont., with Shorthorns. As funds and equipment permit more and larger beef herds wil ments conducted in breeding, rearing, finishing, housing
care and management.

## Dairy Cattle

The work with dairy cattle may be classed as breeding, feeding and care and management. Comparisons of dairy breeds, together with special experimental work in grading up dairy cattle, carried on at Ottawa, Nappan, Fredericton, Lacombe and Agassiz, are lines of great importance in the work of
the Animal Husbandry Division. The latter investi gation is giving data on the value of the pure-bred sire on grade cows, and includes heredity studies to show the improvement made in each generation from the foundation stock. The returns from these grade herds
are also compared with those from pure-bred herde.

The following breeds are kept on the Farms at present
Ayrshires, Holsteins, Jerseys, French-Canadians and Ayrshires, Holsteins, Jerseys, French-Canadians and
grades at Ottawa; Ayrshires at Charlottetown; Ayrshires, Holsteins, Shorthorns and grades at Fredericton Shorthorns at Kentville; Ayrshires, Holsteins and Guernsey grades at Nappan; Ayrshires and grades at Ste. Anne and Lennoxville; Ayrshire grades at Spirit pure-bred and grade at Cap Rouge; Shorthorns a Brandon and Indian Head; Holsteins and grades at Resthern, Lacombe and Agassiz and Jerseys at Sidney All this breeding work is progressing rapidly
One of the chief feeding experiments has been the fed at different rates, and compared with roots, oat sheaves, hay, straw, corn, molasses, etc., for milk production. Other lines of experiment have been: a test of the comparative value of home-grown feeds and concentrates, at Agassiz; meals for milk production, at Agassiz; roughages for milk production at Ottawa carried on at Ottawa, had in view the object of determining the number of cattle that should be carried on a forty-acre farm.
Meal, etc., are now being tried and many condiments have been tested, as well as such meals as fish meal gluten meal and feed, oil-cake, elevator screenings, pea-dust, brewers' and distillers' grains, cocoa-bean husks, etc. Other experiments now receiving specia! and the amount of milk produced, (Cap of meal fed Ottawa), summer feeding, (grain feeding on pasture and pasture substitutes, Ottawa), and best number of All such experiments (Ottawa).
All such experiments aim to forestall conditions of ion to meet the farmers need Accurate cost records are kept in all the breeding and feeding work, and special attention is given to
each other and hand milking. In all eight different makes and types of machines have been on trial for
periods ranging from one to six years. The compilation periods ranging from one to six years. The compilation
of these trials will be published in bulletin form in the
near future. The advantages of coolers, tanks and refrigerators have also been carefully compared, as have various forms of milk pails as to their cleanliness and ease of cleaning. Horses
With horses, breeding experiments are being con ducted at Ottawa, Fredericton, Ste. Anne, Cap Rouge The folowing breeds are kept: Clydes at Ottawa Percherons at Ste. Anne, French-Canadians at Cap Rouge, Clydes at Brandon, Indian Head and Scott Percherons and Clydes at Lacombe and Clydes at
assiz.
One
One experiment that has been. carried on at a numthe discovery of for the past few years had in view horses. Other tests being made are: working broo mares versus geldings, cost of maintenance of brood cost of rearing colts and of breed and type. The shelters for the same are being studied at Ottawa Charlottetown, Fredericton, Cap Rouge, Lennoxville, Indian Head and Lacombe. Spring colts are being compared with autumn colts at Cap Rouge, and figures colts out of doors and of working the dams ring spring olts during the crop season.
The cost of maintenance of work horses and the cost of horse labor are being given special attention a Ga, Lennoxvitle, Rosthern, Scott and Agassiz. General experiments in the feeding of horses, suc as the various proportions of grains and roughages Charlottetown, Brandon and Scott, and an experiment in in-breeding and line-breeding was commenced Cap Rouge in 1917 with French Canadian stock.
bred and cross-bred Lincolns and Merinos with pun Swine
main feature in the work of the has always been a Division, and it has been given still great Husbandry during the last few years, this work being attention extensively at thirteen of the Experimental Farmied on Stations, and there are now over 300 brood sows, which
number will probably be doubled number Wil probably be doubled during the year 1010. Yorkshires and Berkshires being kept. Thi made, involve: studies in hereditary and cost of breedinoperations. On the branch Farms, and Steationg, Yorkshires are kept at Nappan, Fredericton, Ste. Anne Indian Head; Berkshires at Nappan Brang, Brandon and Head, Lethbridge, Scott, Rostern: and Sum, Indian Berkshires, Durocs, Yorkshires at Lacombe and York-
shires at Agassiz.
Tes at Agassiz.

The most economical methods of keeping brood sow costs of wintering brood sows and youds of cheapening gated at Ottawa, Nappan, Indian Head, Lethbridt: Lacombe and Agassiz. General feeding experiments an, carried on at a number of the Farms, the main feed tested being: frozen wheat, farm-grown grains, meals as tankage, stock foods, sugar beets, whey etc of feeding, such as dry, slop, soaked, boiled, self-feeders and hopper-grinders are being compared at Ottawa, Agassiz. Thdian Head, Scott, Lethbridge, Lacombe and Agassiz. The relative merits of pasture and soliling crops for swine are being tested at Scott and Lacombe, basis of a valuable series of experiments at Aogasic The comparative profits of long versus short feeding of shoats is being tried at Ottawa, as well as a comparison of the costs of raising spring and fall pigs. Of all then


Richland Beauty
hampion female at Shorthorn Congress Show in Chicago. She sold for $\$ 1,625$ to an Argentine breeder

## hampion bull at Cillage Hercules.

in breeding and feeding methods employed at all farms
especially at Ottawa, Cap Roure and y yassiz
 raising good calves to maturity are being gathered at
Ottawa, Fredericton, Cap Rouge, Indian Head and
Ateasi, These Agassiz. These figures are available at all times.




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oy this meand



 and compe mentioned: alfalaa, clover, silage, roots, Dairying
Dit


 The work in sheep breeding and feeding has expanded used b
namely
 the various Farms. Comparisons of breds are made at ottawa, Indian
Iead and Lacombe. Some excellent flocksont
 in krading up flocks of common ewes dy the thon. Work

 used Figures on the most conominical and dig best meds are hods Rougce Indian Head, Lacombe and Agassiz, and the profits in the weact, facembe and Agassiz, and the
rat ions for oold rations for old and young lambs arambe and the torect best
at Otawa, Nappan, Cap Rouge. Lemnoxvile Int out Head, Lethbridide and Aapassiz Re, Lennoxville, Indian Numerous feeding experiments with lambs art leng, carried on at a numbermerns of the larmanms Among
lhese mav be mentioned. omichapenpared with each other and with various other . Use of self-feeders as labor-savers. 3. Use of substitutes for standard meals swich
 ings has been the chief substitute.
A noteworthy
A noteworthy feature of the swine breeding operations 5 the sale of pure--tred breeding stock to tarmers at Teasonable prices. The demand always far exceeds the
supply.
During recent years the Division of Animal Hus
bandry has planned all buildings, such as cow barns piggeries and ho sheds and sheep barns, farm dairies, sheds, erected on the Experimental Farms. The subject of farm buildings has been given close study, and those
built according to the plans of this what is considered the best practice to ensure economy, durability, sanitation, light, ventilation, conveniences, comfort, cheerfulness and efficient accessories. In addition to this work the Division has distributed free in planning their new buildings.
The details and results of the work in Animal Hus: Repot Division has published a large number of bulletins, exhibition circulars, special circulars number of bulletinis, the results of its work, while other articles have been two years numerous short articles have been sent to the press of the whole country. This distribution of results of experiments in bulletin and circular form will
increase greatly in the near future, as many lines of
investigation are nearing completion

## Founded 1866

## incolns and Merinos.

 Swined feeding has always been a een given still greater attention ars, this work being carried on
of the Experimental Farms and now over 300 brood sows, which pe doubled during the year 1019,
parison of breeds is shires being kept. K, Fredericton, Ste. Anne res at Lacombe and York methods of keeping brood qowis sows and young pigs are inpenings
pan, Indian Head, Lethbi of the feeding experiments are heat, farm-grown grains, mee nd skim-milk substitutes, slop, soaked, boiled, self-feeders
sheing e being compared at Ottawa,
Scott, Lethbridge, Lacombe and g tested at Scott and soliling products as hog feed formed the, of long versus short feeding of
Ottawa, as well oring and fall pigs. Of all these of which have been so greatly

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various kinds, and for standard meals which
red from our markets. Screenf the swine breeding operations breeding stock to farmers at
emand always far exceeds the
he Division of Animal Hus uildings, such as cow barns
nd sheep barns, farm dairies rimental filer barns and given close study, and those ans of this Division embody $t$ practice to ensure economy, Division efficient accessories. In to farmers asking assistance ings.
of th of the work in Animal Hu
ed each year in the Annu
al large number of this, the iile other and pamphlets on
Hints
neles articles have been sent to ulletin This distribution of ar future, as many lines of

March 13, 1919

## Dog Registration Act in New Zealand

Editor "The Farmer's Advocate": I notice that there was some Sheep Breeders' Associa-
dog tax, at the meeting of the St dog tax, Now, I do not approve of a raise in the dog tax
tion. No unless it be on dogs in towns and villages, as dogs are necessary on a in the land-or rather, his ownerthat every cur in
would be taxed. Many seem to dodge the dog tax would evasion, or a straight lie. One is as bad as the other; by evif a ratepayer's word is not worth the price of dog tax there should be some heavy penal Registration Act
him straight. The following is a copy of the wog Registrake some pointers: "All dogs above six months old must be registered within fourteen days after the age limit, under penalty not exceeding 55. No fog cater the above grace period, is paluntary, i.e., without a summons-frees from the liability to penalty. Onus of proof of a dog's age, or or possession or less than owner. The registration period is the calenar year,
and all registrations effected during the year extend only to the 31st of December following. First registrations after the first of July are at half the fee. Registration fee.-The fee fixed is 10 s. and it may be reduced 2s. 6d. "For sheep and catted doges who live in the country, and farmers, the fee may be reauced to anything between 2s. ©d. and I., and also dogs kept for rabbit Registration in any district covers the whole colony. Mode of registration.- The description of the dog
having been given at a registry office, the animal is registered, also the name and residence of the owner,
who is entitled to a corresponding label, together with a collar, but he may attach the label to any other collar. Change of ownership in dogs is noted in the registration
book free of charge, and the label becomes the property of the new owner.
"Consequence of collar and label are regarded as unregistered, and such
found wandering on land may be destroved by the owner or his agent; or seized and kept by the police or owne
duly appointed person for seven days, at the end of
which time if the evenses are not paid by the ovners, which time, if the expenses are not paid by the owners,
they may be sold, the balance of the money going to the district fund. Penalties-not exceeding: False de-
scription of registration, 65 ; False declaration for rescription of fee, 220 (in default not exceeding one month's
duction imprisonment); Counterfeit label (manufacture or use
of)
\&20: label), 65 ; wrong label (for a dog wearing another dog's $\mathrm{fl}_{10}$ (plus the full value-to the owner- of any dog destroyed or sold in
Russell Co., Ont.

## Shorthorn Registrations Show

 Large Increase.The Shorthorn breed has made rapid strides during the past ten years, as is indicated by the increase in
registrations. For instance, Volume 35 of the Herd
. with 7,526 in Volume 25 ; this is an increase of about 144 per cent. The following table shows the increase in registrations by provinces. The greatest increase provinces; there has, however, been a falling off in
British Columbia.

| Province | 1908 | 1918 |
| :---: | :---: | :---: |
| Ontario | 4,315 | 10,132 |
| Manitoba | 1,098 | 2,154 |
| Saskatchewan | 387 | 734 |
| Alberta | 635 | 2,101 |
| ${ }^{\text {British Columbia }}$ | 45 | 42 |
|  | 268 | 778 |
| Now Brunswick | 42 | 58 |
| Nova Scotia | 107 | 149 |
| Urince Edward Island | 35 | 37 |
|  | 106 | 11 |

Regulation Affecting Cattle Going Into Ohio.
Live stock breeders who have had occasion to ship
stock across the line are no doubt aware of the regulations requiring the animals to be tested for tuberculosis.
Recently a new regulation was brought into effect in the State of Ohio. The regulation in effect is as follows: over, coming into Ohio from the Dominion of Canada shall conic in under quarantine of sixty days and shall except cate which have been tested by a veterinarian
in the employ of the Bureau of Animal Husbandry, wix weeks prior to ., such test having been made within six weeks prior to the date of shipping. In the ship-
ment of cattle, the owner must first obtain a permit
from the Bureau of from the Bureau of Live Stock Industry, Columbus,
Ohio, and enclose an improved health certificate of the

## THE FARMER'S ADVOCATE.

animal or animals intended for shipment into Ohio. I
this health certificate indicates no teantion or doubtfu this health certificate indicates no reaction, or doubtfu subject to a quarantine and a sixty-day re-test.

## Shorthorn Sale at Perth.

The Shorthorn sale at Perth, Scotland, held_in February, broke a!! records in the Old Land. The Perth sale has been a notable event for years past, but this year' s sale will go down in history as eclipsing all previous ones. The average of $£ 24385.6 \mathrm{~d}$. was made on 429 bulls. The previous high record was $£ 154$ 7s. 8d. for 434 bulls at joint sales, which was made at the same sale last year. The high price of 4,000 guineas

## Barn and Stable Plans

In practically every locality there are barns and stables to be rebuilt or fixed over every year. A few years ago apparently little attention was paid to the
kind of material to use in constructing a barn, or to planning a stable for the greatest convenience. In the present age of labor shortage and keen competition,
more attention is being paid to the laying out of the stable so as to make it convenient for doing chores, or in other words, plans are made to secure the greates efficiency. Figure No. 1 shows a stable which is modern The diagram shows plenty of window space, and stee ones. True, there is no silo in connection with this plan, and no space is left for an adequate feed mixing room. The plan might be altered to give greater con
 Ross, of Ohio, and F. T. Wilkinson, another exporter, were both anxious to
secure this herd header, but Mr. Duthie, of Collynie, did not allow him to cross the water. Last year Mr. Duthie himsel private sale instead of a joint auction as was the at at Perth. Some of the other prices were 3,300 guineas paid by Captain McGillivray for a beautiful red March calf of Broadhooks family; Lothian Marksman, from guineas; a Nonpareil March calf brought 2,400 guineas; an Orange Blossom bull brought 1,600 guineas; a Clipper Favorite, 1,500 guineas', a Sittyton Secret brought 1,250 guineas. Quite a number of the bulls will leave Scotland's shores to head herds across the

These prices may seem to the average breeder to be unusually high, but when the breeding and individuality are taken into consideration it is quite possible that his new owner. It depends a good deal on the class of females with which he is mated. The breeders who fan the animals up to the above prices must have seen value irt them. The sire is more than half the herd.

The man who maintains his herds and flocks will


Fig. 2-Steel Truss Barn
stalls are longer than others to accommodate cattle of different ages. There is a wide door at each end of the
litter alley so that a team and wagon may be driven through when cleaning the stable. Two box stalls are provided and space is set aside for the pump, engine cream separator, etc. The silo being on the opposite side of the barn to the root cellar is not very convenient The accompanying il
stables which are in use Thations show the lay-out of to those planning on building, or on remodelling thei stables. No doubt the owners of each of these stables
of late years. It is claimed that it was about 1793 that the breed was first imported to America. In 1810 there was a keen demand for this breed of sheep in America and ewes and rams were selling for as high as $\$ 1,500$ head were shipped from Spain to America. The s'ze of the breed varies. Many excellent ewes weigh around a hundred pounds and rams from one hundred and fifty to two hundred pounds. As a wool producer, the
Merino stands supreme. It shears a strong, fine and heavy fleece. The fleece has on some individuals represented thirty-six per cent. of the live weight. The
on the nose, on the lower entire body and legs, exceptin ears. The eyes are often hidden by the fleace on the color, caused by outside of the fleece is of a dirty blang oil or yolk which exudes to the end dust in the yellom greatly to the unwashed weight the fibre, adding amount of oil is desirable in the fleece and inferior wool, and the rams. A dry, white fleecece is a the best breeders. This prease neeces are not usually scoured off, to show a shrinkage in, or yolk may be and the more fan Merino wool is the finest produer the fibre, the ffiner the staple. The one-yore crimped of a mature sheep will show a length of aboar-old flece one-half inches. The temperament of the Mwo and docility." lively, yet not necessarily inconsistent Then there is the strain known as the Delaine class of wool used to make trade, the name indicates a This strain of the Merino dates back to early goods. nineteenth century. With it breeders have kent both mutton and wool production in mind. The Delaine The breeding qualities are superior to that of the prices. can Merino; not only are they more prolific, but they are better mothers and the lambs are more robust.
However, they do not ada like the former. The Delaine is widesprea conditions United States and continues to wrow in over the Canada neither the American nor Delaine Merino is

## English Agricultural Position.

 Fragmentary, but interesting, are the items of news and live stock breeding. We have had a terrific spell of wet weather and work on the land is delayed by fourto six weeks in some to six weeks in some counties. Fields are rain sodden,
drains and ditches are full of filt are still short of expert labor, the "pivotal" army being very slowly dismissed-too slowly for the farmer's liking. The Government announces that it is longer going to compel farmers farming, i.e. that it is no that ideal pasture land of England which raises such delicious beef and such succulent mutton, only things to dream of, as something that existed in the years prior to the far-away times of 1914 . Good times lie about Midsummer's Day, to wit. June 24, the day we all assemble at the Royal Agricultural Society's Show, at liberated for our cattle and of feeding stuffs are being scarce and pastures are bare and the weather cold Dairy cattle and store cattle for fattening are cheaper than they have been. Store pigs and suckers are meeting with a better trade since the minions of the Food Con"all pigs should be slaughtered ere 1919 dawned because there would be no feeding stuffs for them." The Armistice cleared the way for the revoke of that order, and the pig world-cottages, allotment holders, citizehs grown upon the Englishman since the war. The pig, is an outward and visible manifestation of love being ex pressed for the curly-tailed one, as well as an inward Now, let's talk "pedigree." Shire men in Canada Society have decided to advertise the breed in Canada. They think this way that a lot of statements damaging Canadian newspapers, and they have a ctunt scheme to work to counter-act them. The development of the scheme will be watched with interest by those over here do so in England first! There were some few in England who thought that when the army began to sell its heavy draft horses the
bottom would fall out of the "pedigree" trade. But
k.

would make changes were they building again. Each may be able to offer suggestions as to how or these stables could be laid out to better advantage, or for greater lay-out of stables designed so as to require the least

## Merino Sheep

The Merino belongs to the fine-wooled class of sheep trade. The wool, while a little short in the staple, is quality. An oily secretion exuding from glands fine in oily substance fathers pronounced in this breed. This fleece a rather dirtyers dust and dirt, which gives the breadth of back, fullness and general thickness as in ment is more pronounced than smoathouss developclimate is generallyo originated in Spain, where the climate is generally dry and mild in the low lands.
Sheep husbandry has been important in Spain inc the beginning of the Christian era. As early as the firs century the superior quality of Spanish sheep was varying types of Merinos were kept in the country development along some lines being more pronounced Early history indicates that the people of Carthage and Spain as early as 41 A. D. From Spain the breed has Spain as early as 4 A . D. From Spain the breed has
been exported to different European countries and to
America. Considerable improvement has been made
breed is inferior as a producer of mutton, and the breedin breeds. Professor Plumb as in some of the other of the breed as follows: "The head is small, being comspirally twisted horns, and the rams carrying heavy, The lips and nostrils are white and fine, silky white nose. The ears are small and are covered with fine white hairs. Reddish or tan-colored hair is occasionally seen on the cars and nose of the Merino. which suggests Merino breeders have valued this collor variation, while thin and tends to be long below it out. The neck is shoulders are very sloping, the chest narrow but deep rump frequently, the back moderately narrow, the fine. The skin is of the most attractive bright pink color, and in good specimens is in folds along the bridge part of the sides, and about the breast, showlders, lowe are usuafly no folds over the back and perhaps upper third of sides, unless in a small degree. In 1892 an heavy folds on the fashion is to have from three to five but large on the under side; two or three short folds on and immediately back of each elbow or arm; fine, thick over the back. Wrinkles across the hind extending times at tail in the direction of the stifle, and some tail to give it angles with them, folds also around the

## 


the entire body and legs，emeximine


 Hes to the end of the fibre，yeldown
vashed weight．A vashed weight．A considerable
able in the fleece，and rams．A dry，white fleece is an
S with such fleeces are grease，oil，or yolk nay mally wool is in weight of 65 ber staple．The one－yeareold fimped show a length of about two and
temperament temperament of the Merino is
necessarily inconsistent he strain known as the Delaine
en trade，the name indicates a ake fine，unt willed worsted good
rino dates back to early ction in mind．The Deed are superior to that of thy prices are the lambs are more but they Delaine is widespread to conditions．
Dems． grow in favor．In
Delaine Merino is

## cultural Position．

 teresting，are the items of newn concerning English agticultu
We Wo thave had a terrific spell
k on the land id delayed by four
unties
Fioldd unties．Fields are rain sodden，
ull of filth and rubbish，and $w e$ labor，the＂pivotal＂men in the
dismissed－too slowly for ss of farming，i．e．that it it is ers to plow up．pasture ．land
England which raises such succulent mutton，only thing imes of existed in the years igned，which we are told will be Agricultural Society＇s Show，at
es of feedig
and and sheep，but hay is growing
bare pigs and suckers are cheeting $r$－brained death the Food Conn－ ered ere 1919 dawned be－號 the revoke of that order， ges，ailot ment holders，citizens
rejoiced since．The pig has nilestation of love being ex．
ed one，as well igree．＂Shire men in Canada
that the English Shire Horse
trertise the breed in Canada $t$ a lot of statements damaging they have a stunt scheme to m ．The development of the
n England who thought that sell its heavy draft horses the
the＂pedigree＂trade．But

## 蹅號

the elements hold full sway, still used on some Ontario farms. No wonder then that the above machine

## Members of Farm Drainage Associa

 tion Hold Convention.
## comparatively new organiza

 vention in London, on February, met in annual cona fair attendance, and many matters of importance were freely discussed by those present. PresidentS. W. Hyatt, of Mt. Brydges, presided There is need for underdrainage throughout Ontario, and particularly in the western section of the province. There are many instances where draining the soil has increased returns from seventy-five to one hundred per cent. the kind and quality of tile, depth of putting in drains, distance of drains apart, and method of digging the the quality of tile which was complaint made about and, as a drain is no better than its poorest tile, those draining were strongly advised not to put chipped or crooked tile into the drain. Care should also be taken when filling a drain to see that none of the tile become general opinion that they should not be laid too closely together, if warping of the drain was to be avoided. Warped tile coming from the tile machines was attributed to carelessness on the part of the tilemaker in not having
his machine properly adjusted, and in not properly mis machine properly adjusted, and in not properly
making the mixture of clay. Anyone who has laid
many tile thoroughly understands the difficuly many tile thoroughly
ing badly warped tile.
for drainage. When the ditching paper on the outlook into the country and began doing the work so rapidly it was prophesied that it would only be a matter of a
few years until the land was all drained, and the tilefew years until the land was all drained, and the tile-
makers would then have to go out of business. prophecy has failed, however, as it is estimated tha the output of all the tile yards in Western Ontario per year would not be sufficient to drain any more than
half one township. There will be a demand for tile half one township. There will be a demand for tile
for many years to come. Mr. Cooper predicts that in the next ten years there will be as much drainage done as was done in the last half century. Labor, finances, consequently, farmers could not attempt drainage wor the maximum crops, even in the stern times through which we have been, evassing. "One of the first require ments is. that of deeper outlets," said Mr. Cooper
"Throughout Ontario there are many farms which a kept saturated by the shallow, winding water-course which do not permit of a drain discharging into then
because of the shallow depth. Frequently the creek because of the shallow depth. Frequently the creek
will meander back and forth through low, level areas
thus rendering finus rendering unfit for cultivation many acres of the fills more and more annually because of the deposition of silt. The water table is thus raised so close to the "To procure improved outlets
chines are necessary; every muthicipality should own
such. I venture to say that in every such. I venture to say that in every two miles of
natural water-courses, enough land could be reclaimed or cultivation to pay for the machine, and this does not surrounding land due to the efficient outlet," said the
speaker. "There is a necessity for a standardization speaker. There is a necessity for a standardization
of the manufacture and curing of tile; this is especially
true of cement undergoes during the wetting, manufacturing and Then, too, many of our ditching-machine operators
are not competent and experienced. They have not the training necessary to set a level;many do not even underthat an examination should be conducted yearly for all operators. Those successful at the examination
should then be given a certificate and a license to operate the machine." Mr. Cooper also referred to the necessity of protecting ditches to prevent the trespassing of stock, and showed the necessity for soil experimental
work. The members of the Association were advised o ever uphold the advantages and emoluments There was considerable discussion regarding cement hat the trous was poing maker of cement tile, who has had no complaint about teame which he has manufactured, cures them unde
tham it is evident that a good deal derends on how
and

greater demand for tile and for machines to dis the J. W. Sands, of Chatham, believed that consider able poor work was done in the digging of drains and laying of tile from lack of a proper knowledge of the sabject. A drain poorly put in is practically useless, Mr. Sands recommended compulsory inspection of all work done and the licensing of machine operators While many men do their work conscientiously, there carrying on of drainage work Are a himber of cestions which every machine operator should understand were mentioned by the speaker.
The following resolutions were adopted: "That the at $\$ 3,000$ or less and parts thereof adapted for farn drainage be admitted free of duty' be made to read Traction ditching machines adapted for farm underdrainage valued at $\$ 6,000$, or under, and parts thereo on admitted duty free." Owing to the increased price present Act, and as there were many places where
drains deeper than the smaller machines were capable of digging were needed it was felt that the larger ma tile is higher be admitted free. As the freight rate o the tile manufacturers felt that they were being imposed on, and that owing to the importance of drainage would a in the interests of agriculture as a whole to A resolution asking for a consideration of this was unanimously passed and left with the Secretary to be forwarded to the proper authorities. The following officers were elected: President, S. W
Hyatt, Mt. Brydges: First Vice-Pres., I. McFarlane Thatt, Mt. Brydges: First Vice-Pres., I. McFarlane,


A Veteran Thresher.
The old gentleman in the foreground is Wm . Coleridge, of Kent
Alfalfa Versus Sweet Clover. in the Agricultural fress eurs mo much has been written in many quarters, it has gained a reputation clover that, ority which, to say the least, is misleadingly exaggerated A few unbiased remarks on its real value, especially in comparison with alfalfa, may, therefore, not be out The reputation for superiority which sweet clover has gained is to a very large degree due to the fact that
it is able to do surprisingly well in naturally poor soil
or worn-out land deficient in plant food and or worn-out land deficient in plant food, and in soil No one who has seen sweet clover flourish in places
where, to use a common expression, "nothing else will
grow,", can deny that sweet clover might be employed
as a remuncrative crop on the type of land just referred
to. Howerer, it should be clearly as a remuncrative crop on the type of land just reforred
to. Howeecr, it should be clearly understood that,
though realizing the value of sweet clover as a revenue
produceer on poor soil, it hy no means follows that
a chance to mature seeds and thus automatically re-seed Alfalfa may be grown for pasture, hay, silage and
soiling, whereas. sweet clover has a somewhat limited sphere of usefulness. Thus, sweet clover is not likedy to make as good hay as alfalfa; neither can it be cured into good hay as easily as the latter. As a forage crop, pasture, but even as a pasture plant it is hardly equal As, furthermore the latter can be grown successfully. As, furthermore, sweet clover has some distinctly alfalfa, for instance, its peculiar flavor and its found in to become a weed if not properly looked after, there is no valid reason why it should be grown in preference success. However on land be grown with reasonable sweet clover may be used either as a to grow alfalfa, a green manure crop for the purpose of improving the

Should the Price of Wheat be Set in Canada for 1919?
The organized farmers of Saskatchewan have asked
the Govenment the Government to set the price of wheat for the 1919
crop. Against them they have the Manitoba Grain Growers and the United Farmers of Alberta, who have not seen fit to make such request. However, it must be ventions there was a considerable minority in favor of the price being set, and also that, although these
provinces are fairly well represented at the Grain Growers' Conventions they do not, by any means, represent the whole of the farming population, and the is no doubt that the majority of the rank and file of the farmers in Canada are strongly in favor of the.price of wheat being guaranteed by the Government for the
1919 crop. Although the Commission appointed by as to how to aid production, recommended that the price of wheat be set for 1918 and 1919, the Government could not see their way clear to accept the recommendation for the 1919 crop, claiming that the price of Wheat in the open market might be lower than the set have to make up the difference in order that the farmers Government refuses to set the price for 1919 the same as 1918 and the price in the open market drops, the total loss will fall directly on the farmers alone, whereas
if the Government guaranteed the price and had to make up the difference, the loss would fall on the people of the country as a whole, which would be fairer than
making the farmers as a class bear the total loss. On making the farmers as a class bear the total loss. On principle it was right to set the 1918 price to protect
the consumer from inflated prices, but it was set to hold the price down, not up; therefore, on principle it is right,
to set the price for 1919 in order to hold it up and protect the producer.
The price is set on everything the farmer has to buy, in order to insure a profit to the producers of those buy, in order to insure a profit to the producers of mole-
articles. The General Manager of a large farm imple-
ment plant states that the price on farm implements ment plant states that the price on farm implements
mill advance 5 per cent. in 1919, owing to the increased
wither will remain the same. On the other hand everything thing he has to buy is going down, while nearly everyhe farmer's profits for 1919 going to remain the same? spend a large amount of money during the next year on buildings, highways, housing schemes, etc., in
order, as they claim, to provide employment. If the Government can spend profitably large amounts of why can't it do the same for agriculture? The net profits of the average farmer were so low, even at wartime prices, that he did not earn a labor income equal of things is not altered the unemployment problem will of things is not altered the unemployment problem wilt
shortly becomeso aggravated that the Government will be compelled tospend a great deal more than the cost f guaranteeing the price of 1919 wheat in order to pro-

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leave their farms.
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CANADA'S YOUNG FARMERS AND FUTURE LEADERS.


Topics for Discussion<br>Wic are on the threshold of an era which will see

Founded 1866
 perimental Farms Note.

## ce of Wheat be $S$

 da for 1919?Discussion

THE FARMER'S ADVOCATE.
contains the most ideas and suggestions. The topics
follow: How to make the junior farmer's improvement association a success.
Outline what haw lines done by your local association engage in. Give any suggestions you can that will their stamp on the community. How is a successful meeting of the association conducted? What improve-
ment is needed most in the community or in the young men themsd reach us by March 20
2. What can the junior fairmers do to make rural life more .congenial for "themselves and make conditions more satisfactory for the boy or girl? tock, improved farming methods or more conveniences in the home help to make the boys and girls contented
and satisfied with their occupation? What is the chief attraction which lures the boy from the land, and what 3. What lessons in agriculture has the war Have you or your neighbors learned anything new
regard to farming during the last four years? Have in regard to farming during the last four years? Have
new crops been introduced which promise to be mor istrict. Have methods been altered or have any labor saving devices been found valuable. Articles on this

Suggestion for Young Farmers Improvement Associations
$\qquad$ as in progress which promisenlist a great majority an enlivened community spirit, more sociability amongst ancement of agriculture along broad national lines Young men were meeting together and discussing public
uestions as well as matters closely related to the farm and farm operations. There was an awakening in rural Ontario and many indeed were the young men who ex-
hibited considerable talent for public speaking and eadership. The war cast a wet blanket over the whole novement for a time but now the boys are getting back
to their homes and those who were obliged to remain through the arduous years of $1917-18$ are enjoying a greater measure of freedom. The short courser held
by the Agricultural Representatives in recent years have brought out young men of exceptional ability and some
ocal organization becomes necessary in order that they may commune with each other and thus keep in touch
with alf progress in the community, the province and national life generally. The junior farmers improvebeen organized or re-organized this winter. The summer eason will soon be here when organizations are usually
allowed to get rusty from disuse. There is plenty of work for these associations during the period from The community matters in hand sist f the school grounds and make the section known for chool garden. There are usually picnics and public opportunity for the junior farmers to prove their useopportunity for the junior farmers to prove their use-
fulness. Motor trips into neighboring counties is one
of the best means for young or old to keep in touch with methods and practices. A junior farmer's association he route for which would be mapped out by the AgriIn order provide material for next winter's dis nembers on their own farms and the results compared and discussed at the meetings during the winter months
of $1919-20$. These would have a two-fold value; they ould furnish information for all the farmers in th ideration of the subjects at the regular meetings would part. This line of work presents many opportunities and
the advantages accrue to those who take the most active part.
While the primary object of these associations is for
the improv $m$ nt of rural life and the advancement of the members along educational and social lines they might
find somr local co-operative endeavor instrumental or instance the members might engage in what known as ommunity breeding. Swine would show most immediate results and the returns would be forth-
coming ..on cnough to offer some financial reward for
the latornyended. Such a scheme could be worked the lator ended. Such a scheme could be worked
out somewhit as follows: The club should agree on one
breed, which of course should he of bacon type breed, which of course, should be of bacon type, and the
association. en masse, would do well to adopt a standassociation. en masse, would do well to adopt a stand-
ard so
then earlormity could be featured. Members would
charge of someone who would agree to handle him for a certain percentage of the service fees. At the end of 12
months the association would have a shipment of hogs
that should be uniform in type and finish and which should command a premium on the market. Thi scheme could be extended to embrace pure-bred stock district on the map. Besides working for improved
breeding stock and increased returns, the plan would arouse an interest that would hold the association to gether and make it possible for the organization to
leave its stamp on the live stock produced in that There are other fields of endeavor opening up to are yourg farmers of Canada. The foregoing suggestions portunities which the junior farmers should not pass over. improvement associations moving. There should b Some objective, some goal to attain. You can help your own organization and help others, by discussing the
topics outlined in this department. Let ws have your suggestions to publish in these columns.

## AUTOMOBILES, FARM MOTORS AND FARM MACHINERY.

## Power Required of Tractors.

 Even though manufacturers build tractors with thedrawbar horse-power varying from $11 / 2$ to 60 , the agricultural engineers at
have found in a recent tractor survey that in many
cases the cases the power requirements of the farmer's field
machinery evidently were not considered when tractors

## ere bought

fonty-nine purchasers locality, includited chines because they developed less power than wa expected. Twenty-three owners had bought larger out fits than they needed.
Manufacturers and salesmen can overcome this con dition considerably if more attention is paid to the power The tractor must not only have plenty of power to handle the uniform load, but a large reserve is always Some Sample Power Requirements. To answer intelligently the many inquiries that
come to the Iowa agricultural engineers, we have mad extensive field observations, some of which are a
A tractor gang plow, three 14 -inch bottoms, plowing $61 / 2$ inches deep in a sandy loam soil at a rate of two
miles per hour required as high as 10 h .-p. to get through the tough places.
A corn harvester in medium corn after frost used potato digger digging at the rate of two miles per hour, called for 6.7 h. .-p. on the average
that the ordinary disk travelling about three wiles hour would require $675 \mathrm{~h} .-\mathrm{p}$. if the disks were set to do a good job; and a four-section, 24 -foot harrow moving
along at two miles on fall-plowed ground, used about
$41 / 2 \mathrm{~h}$.-p.
Pulling a manure spreader loaded with 3,880 pounds of wet-straw and manure, unloading at 2,6 miles per
hour, used approximately 5 h .-p.-J. S. Glass, Iowa

Gasoline Power on the Belt.
$\qquad$ The horse-power rating of gas engines placed on the
market in recent years has been very deceiving and
resulted in a lot of dissapointment to purchasers who had been accustomed to the steam engine. My experience equal rating of steam to divide the gas rating by thres e. g . If a gas engine is rated at $30 \mathrm{~h} .-\mathrm{p}$. a steam engine
of $10 \mathrm{~h} .-\mathrm{p}$. will handle the same machines. I might just mention here that the steam tractor of 20 h .-p. rating This comparison applies more to the multiple eylin. type of gas engine in the light weight tractor on the
market to-day which has to rely on its throttle to carry an even speed through shocks from excessive of fly wheel. I could name several gas tractors rated normal speeds, vet we find the bore and stroke measure ments vastly different. Let us assume that the qualit equal and allow a small margin for slight advantages ments to produce power is the one to buy. It is folly required measurements to produce it.
The number of cylinders, the tractor of our choice should have, is another problem. The single cylinder is
perhaps the most economical on fuel but for larger than $12 \mathrm{~h} .-\mathrm{p}$. the excessive weight and uneven belt motion cylinder engine with a little higher speed is a more
practical proposition and for belt work of intermitent
load this type of engine will be found to have plenty of
and the engine parts such as main bearings and crank
shaft of sufficient size and strength to carry a heavy belt The lighter weight four-cylinder type of engine wil of this type of best in the tractor work as an engine not give as efficient belt service due to lack of flywheel weight. It is true the four cylinder engine picks up it has a large reserve of power. A slight variation of speed a ractor work is of small import but on a silo
filler a reduction in extra sheaf or two is, the very last thing desired. The sufficient weight of fly wheel to overcome this deficiency for average farm work, while I favor the two-cylinder design engine for belt work the four-cylinder type
does very well on work that it can handle and has less A shaft avoids bevel gear or fibre transmission and as a
result then is no lost power from engine to machine Ariven. efficient service of the steam engine and this is a stron point in favor of plenty of reserve power. If a person intends to follow custom work to any extent select of silage cutters and threshers recommend and it will handle its work with ease, be economical both on fue and repairs and in the end prove to be a better invest

## THE DAIRY.

 Millk Prices.We learn froma news bulletin issud by the Minnesot Agricultural Experiment Station that another metho han the direct cost of feed and labor has been proposed by F. W. Peck of that station for determining the price market mik. : This method is suggested because atisfactory basis for determing whe the price of milk should be has been made use of herto. Previous ormulae have considered the quantities of feed and ror necessary to the production ol 100 . a stated standard. In one or two cities in the United States the price of the is deter of cheese In Canada, there is an added factor to be considered ther than the price of market milk alone, and that is the equalizing of the price of milk for all purposes. But or cheese manufacturing purposes is largely set by the export market for cheese. As was pointed out to a representative of "The Farmer's Advocate" recently if the cheese produced in Canada were all absorbed by it would be a comparatively simple problem to equalize prices to all classes of producers. As it is, however formulae based on the cost of feed and labor are difficult to adapt to this situation, although perfectly applicable
for six months of the year when cheese is not being manufactured. Then too, there is the fact that cheese constitutes fully 50 per cent. of the total value of dairy products manufactured in Canada, which fact makes
it dangerous to tamper with so important a branch of the
The "Peck" method of determining milk prices takes the price of New York extra butter as a basis and proceeds by fixing upon a differential between the price daily, also another differential for the feeding value of skim-milk contained in the whole milk. Whether this system is of any value to Canadian milk producers, with manifications, must be left for them to decide, bu "The first differential is determined by adding 25 per cent. to the price of New York Extra butter and then multiplying the total by the test of the milk. This allows milk and the butter made from such fat; also for extra quality and extra service. $T$. that 100 pounds of whole milk is equal to the farm value of one-half busher of corn. As there is about 85 pound value of skim-milk is 85 per cent. of the farm value of one-half bushel of corn.
"This is the way the problem would work out 68 cents. This plus 25 per cent. makes 85 cents.
This multiplied by 3.5 per cent., the butter-fat
$\qquad$ Price of corn per bushel, $\$ 1.30$. Of this one-half is

Total (price per cut. at b ocel station)
or The uso of this. method of deternining the phice


## ment than a <br> en you start to overload the gas engine. Remer. Wentworth Co., Ont.

## Another Method for Determining



[^1]THE FARMER'S ADVOCATE
Good Dairy Herd Management in Nova Scotia
A good deal of sound practical advice regarding the management of a dairy herd is contained in a pamph-
let compiled by John M. Trueman, of the Nova Scotia let compiled by John M. Trueman, of the Nova Scotia
Agricultural College, at Truro While the bulletin was
written with Nova cootia conditions in mind, he recommendations are capable of wide applications and they are particularly seasonable now that summer conditions
are approaching and the natural increase in the herd has are approaching and he natural increase in the herd has taken from: the bulletin in question.
The feeding of dairy cows during the summer months
showld have more attention than it often receives at the showld have more attention than it often. receives at the
hands of the farmer. It is a common practice to turn cowss out to pasture in the latter part of May and give
them no extra feed until they are put in the barn again them no extra leed until they are put in the barn agai the pasture must be of the very best. In most cases
the dry weather of July and August shortens up the grass and the cows shrink a great deal in their mill imperative that some supplementary feed be given if any large flow of milk is to be maintained. Some green
forage is valuable at this time. It may consist of clover forage ts valuabe a in July, of oats and peas in August
from the hay field in and of corn and white turnips in ineptenter and oot land as early as possible in the spring. Sown the latter part of
April or the early part of May they will be ready for feeding by the middle of July, of sometimes earlier A second sowing made the last of May will be ready
for feeding in August. ( $21 / 2$ bus. oats, $\% / 4$ bus. peas per acre.) In addition to the green feed a small quantity of bran have been milking a long time and are only giving 20 to 25 pounds of milk will not need much, or any grain if they are given an abundance of green feed, either
from soiling crops, or from a good pasture. Cows giving from soiling crops, or from a good pasture. Cows givin
30 lls. daily will need some grain in order to keep mile how up to the maximum.
Ansther advantage gained from grain when the the cow goes into the barn in the fall. This enables
her to do better work during the winter and even during the whole of the next perioc fractation. $A$ cow that will never give as much milk as if she had freshened in good condition
Especial care should be given the cows, at calving
time. They should have at least six weeks' rest from
the time of drying oft antil the time of drying off until freshening again. The
grain ration should not be stopped at this time. They need about the same amount sayd 6 to 8 lls.) and deout the same mixture as they would receive if they were
giving 25 lbs. of milk. This gets them in shape for the giving 25 lbs. of milk. This gets them in shape for the
work of the next lactation period and is feed wisely used. About ten days before freshening they should be given succulent feed as far as possible. The only grain
that it is wise to feed at this time is wheat bran. This can be fed in liberal amounts right up to calving time. ystern, and prepares the cow for the dropping of her calf. Furthermore, wheat bran contains a large amount
of ash, and other material that is good for the developing calf. At calving time the cow should be placed in a comborn the cow should be given all the warm water she
bill drink This chill, and make it much more tikepy that the afterbirth will be properly expelled the box stall shoull be
furnished with plenty of fresh, dry bedding after the cold quarters. ays after calving and not much heavy grain given until te swelling, or caking is pretty well out of the udder.
A large amount of caking is not harmful if the cow is not overfed until it subsides. In fact, a much swollen
along the underside of the belly without indicating any thing wrong.
In feeding the dairy calf the first feed given should consist of the mother's milk. If the cow is a heavy milker the calf may easily yet too much if allowed to
suck all it wants. Light feeding for the first week or two should be the invariable rule. It may be allowed to suck for a day or two, or until the milk is good for
use, at the end of four or five days. After that it should be fed from the pail preferably three times daily until it is two weeks old. A small amount at each feed is
the rule, not more than a quart at a time for the first ten days. Arter that, arar skim-milk may be substi-
tuted for whole milk, and by the time it is three weeks old all skim-milk may be given. At this time some fine hay and grain should be hay should be put in a rack fresh every day, where the calr can reach it easily o A grain mixture should be
made up of equal parts of bran, middlings, ground oats and one-quarter part of oil meal. A small handful of eat it with relish. The meal should be put in a box dry after the calf has had its milk, as it will be masticated
better and be more useful to the call if it is fed dry Great care should be taken to keep the feed box clear
and fresh, also all pails used in feeding should be cleaned thoroughly every day. The amount of grain fed may


Netherton Jeanette
be increased gradually until by the time the calf is three
months old it is getting some two pounds or more the mixture per day The skim-milk may be increased
to eight uuarts per day piven in two feeds The importance of feeding calves liberally the first var cannot be too strongly emphasized. If the calf
s not fed enough to make it grow well the first year it will always be under sized. It is a better practice to
feed some grain the first year and none the second than reed some grain the first year and none the second than
to feed none the first year and attempt to make it up by feeding heavily the second year. More returns in
growth will be obtained by feeding grain to the animal

## POULTRY.

## What Colds Did to the Flock

$\qquad$
$\qquad$
$\qquad$
$\qquad$ a cold runs through a whole flock it usually, Beans that a cold runs through a whole flock it usually means that
there will be very few eggs for a period of from a month three of my flock of twenty-four Barred Rock that sneezing, nd snumfing, breathing through their mouths,
and that most of the remaindet

I was feeling rather proud of my birds just thend at a nearby laying contest a pen of five from then, for
had performed in a highly satisfactory tmanner of my flock were early hatched pullete manner;: Hali time, about the middle of December, they were at that out the eggs at a rate of six, seven or eight were turning
remainder of the flock were hatched eagrly d day. The were just on the point of laying when this epidemicic of
colds broke out. colds broke out. had caused the colds. The hen-house to know what drafts, had a straw loft to help keep it was ree from highted and was plenty big enough to accommold hit it. Two evenings before I crowding. Finally I back from the laving competition mentioned my birids been an affair of six days' duration, manazed in had nection with a large poultry show. I put.the hens onway, and I discovered at latat that two of them had bad colds and had, in all probability, spread the disease
to the rest of the flock. Either they had taut in the drafty show-rooms or it had been caused by the change from a heated building to a comparatively My first step, after giving them their regular morning a pinch of potassium permanganate in it Cotder with through the drinking water but a small Colds spread potassium permanganate will stop or materiailly lessen
infection. I had been giving them moist mash an infection. I had been giving them moist mash at noon,
consisting of equal parts of bran, shorts and chopped consisting of equal parts of bran, shorts and chopped
oats. To their regular portion of this I added a small oats. Io their regular portion of this I added a small
handful of Epsom salts and about a cupful of chopped raw onion. I believe that raw onions are as good for
chickens with colds as they are for human teings with colds, and while they may cause a few tainted with colds, and while they may cause a few tainted eggs,
when many of the flock have colds there will not be when many of the flock have coldd there will not te
many egss, so what's the difference? There was no more medicine for the flock that day, but when I finally left them for the night there was an atmosphere suificiently charged with the smell of onions to cure all the
colds those birds ever had or ever would have, and 1

But I was not destined to see the effects of my doctoring, for the next day, or rather in the night, 1
awoke with that feeling experienced by all those who awoke with that feeling experienced by all those who
caught the Spanish influenza and was sentenced by the doctor to stay in bed till my temperature was nomal. The chore of feeding the hens was given to a younger
brother, and it was ten davs before I saw them again. When I did finally carry out their feed to them one morning what I saw was not very encouraging. To be
sure, the colds had disappeared but half the flock were perched on the roosts, most of the remainder were standing around with their heads drawn in, shouldere hunched and feathers rumpled, and only three or four sheet on the wall showed that the best performance of the twenty-four pullets on any day in the last week
had been four egrs, and for the week ending Dec. 28th he toen four eggs, and for the week ending Dec. 28th colds had certainly left their mark on the esc sheet and, judging by the appearance of the hens, there would However, I set to work. The straw on the floor
His dinty was dirty and damp and though it contained quite a bit of grain it offered little inducement to the birds to
s.ratch; so I cleaned out the house thoroughly and put in clean, dry strew too a depth of about ten inches.
During the process the hens shook of their lethargy During, the process the hens shook off their lethargy
in the attempt to keep away from broom and fork, and in the attempt to keep away from broom and fork, and
a few handfuls of grain in the new straw started some a few handfuls of grain in the new straw started some,
of them scratching. I gave them small rations of grain of them scratching. I gave them small rations of graiad
the first few days and by keeping them hungy made them more willing to exercise for their meals. On salts in the drinking water. While the birds had colds they had been fed chiefy
on grain and an occa ional mangel but after they came into my hands again, I started with the following system: In the morning they were given a scratch feed of equal parts wheat, corn, oats and buckwheat. I soon found
out iust how much they would eat up clean inside of a


| Value of Early Hatching |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Hatching Month | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. |
| 1915-16. | $\begin{aligned} & \text { March } \\ & \text { Arpil. } \\ & \text { May. } \end{aligned}$ | $\begin{aligned} & 11.4 \\ & 00.0 \\ & 00.0 \end{aligned}$ | $\begin{aligned} & 36.8 \\ & 8.3 \\ & 00.0 \end{aligned}$ | $\begin{array}{r} 43.4 \\ 24.6 \\ 2.3 \end{array}$ | $\begin{array}{r} 40.6 \\ 29.5 \\ 7.1 \end{array}$ | $\begin{aligned} & 52.8 \\ & 41.8 \\ & 28.8 \end{aligned}$ | $\begin{aligned} & { }_{49}^{49} \\ & 46.5 \end{aligned}$ |
| 1916-17. | $\begin{aligned} & \text { March. } \\ & \text { April. } \\ & \text { May... } \end{aligned}$ | $\begin{aligned} & 41.16 \\ & 00.16 \\ & 00.0 \end{aligned}$ | $\begin{aligned} & 53.42 \\ & 30.5 \\ & 00.0 \end{aligned}$ | $\begin{array}{r} 28.8 \\ 40.7 \\ 6.5 \end{array}$ | $\begin{aligned} & 35.0 \\ & 54.8 \\ & 18.0 \end{aligned}$ | $\begin{aligned} & 45.0 \\ & 52.7 \\ & 29.5 \end{aligned}$ | $\begin{aligned} & 42.2 \\ & 51.2 \\ & 39.0 \end{aligned}$ |
| 1917-18. | $\begin{aligned} & \text { March. } \\ & \text { Arri. } \\ & \text { May } \end{aligned}$ | $\begin{aligned} & 24.9 \\ & 00.0 \\ & 00.0 \end{aligned}$ | $\begin{aligned} & 32.4 \\ & 10.2 \\ & 00.0 \end{aligned}$ | $\begin{aligned} & 25.6 \\ & 30.0 \\ & 23.3 \end{aligned}$ | $\begin{aligned} & 24.1 \\ & 28.0 \\ & 48.6 \end{aligned}$ | $\begin{aligned} & 18.6 \\ & \begin{array}{l} 18.7 \\ 24.7 \end{array} \end{aligned}$ | $\begin{aligned} & 36.6 \\ & 39.5 \\ & 29.5 \end{aligned}$ |
| 1918-19 | $\begin{aligned} & \text { March } \\ & \text { Arril. } \\ & \text { May.... } \end{aligned}$ | $\begin{aligned} & 27.0 \\ & 00.0 \\ & 00.0 \end{aligned}$ | $\begin{aligned} & 47.2 \\ & 23.0 \\ & 00.0 \end{aligned}$ | $\begin{aligned} & 63.1 \\ & 48.7 \\ & 23.9 \end{aligned}$ | $\begin{aligned} & 54.9 \\ & 55.6 \\ & 44.0 \end{aligned}$ | - | - |

There are many methods in use for the planting of straw
berries: spade, dibble, plowing a furrow, and the planter berries: spade, dibble, plowing a furrow, and the planter
I have used both the spade and the planter, and wil Thave used both the spade and the planter, and wil
say that if the spade is to be used it has to be used by
those experienced in planting with a spade. The those experienced in planting with a spade. The
trouble is that a great many planters leave an air space trouble is that a great many planters
at the bottom of the plant when the spade is used The planter is especially good in dry weather as the each plant. The dibble, I know, has been successfully used by a good many planters, especially in light, loamy
soil. It is necessary to exercise considerable care in planting and have the plants rown is level with the top of the ground. If planted through the ground and the plant is either stunted or dies, and, again if set too high, the roots dry out and the plant dies.
Cultivation.-This should begin as soon as planting will keep the ground level, also working close to the
plant without covering it. Take care not to cultivat
consisting of equal parts bran, shorts and chopped oat daily, the whole moistened with water till in a crumbly not sloppy, condition. At oaten and gave them a mangel split in two, and each hal stuck or three in the after
evening, or rather about half past
noon, for it got dark early those days, I gave them in noon, for it got dark early those days, I gave them in
the litter almost twice as much scratch feed as they get a full crop to carry her through the long night A suply of rolled oats was kept before them in a hop-
per all the time, and also grit and oyster shell. They were given water to drink except on very cold days,
when the water froze in a few hours, and then I gave them clean snow.
A weck of this feeding brought no results in the egg basket. In fact, for the week beginning Dec. 29 the
flock laid only 16 eggs, or four less than the week before in much better condition than when I started on $m$ new system of feeding. They scratched more, they sang more, there were more fights over pieces of meat in
their twelve o'clock feed. They ate more, and though to see them do it. The next week I hat twenty-two eggs from the flock have relieved crop-bound hens successfully severa times, but in this case the bird died the day following the operation. Two of my early-hatched pullets
started to moult about the middle of January, and shed their neck and tail feathers. I do not know any bone than was good for them. Jan. 12 the egg-record showed a total of forty-eight eggs, a con erable im
provement three, a creditable but by no means wonderful per-
formance. It showed me that if I had let the flock catch colds 1 had at least been able to bring it back
to condition again. A week or more of mild weather to condition again. A week or more of mild weather
toward the end of the month resulted in a production of ninety-three eggs, about 58 per cent. production from and I was satisfied that the birds were making up for I consider that those colds cost me about four
weeks' eggs, about fifteen dozen at least, and with eggs at seventy-five cents a dozen that means a loss
of $\$ 11.25$. I have charged that up to experience, and
next time I shall see next time I shall see that no hens with colds go into a
healthy flock of mine.

## Early Hatched Pullets.

Care few poultrymen, who have really tried to take
fare of their flocks like to have the chickens hatch as
late as May and June, which is so frequently the case with the farm llock. The greatest fractor in profitable
poultry keeping is probably the number of eggs the flock will produce during the three winter months, the degree of profit from the flock depends upon the
earliness at earliness at which the pullets start to lay, and it is
usually considered that about six months from hatching
time time are required to grow a pullet ready to lay. Prof.
W. R. Graham, of the Ontario Agricultural College, presented some figures recently for the consideration of
poultrymen and had this to say regarding the value of
early hatchind "Early-hatched pullets usually lay much better than
hens during the winter. Our experience would indicate that it would take from five to six months to mature
a pullet ready to lay. Of course, some families of the
same breed same breed mature earlier than others, and the general
care of the Mhicks while growing is of importance.
Then again, March hatched chickens lay at a younger






With an exceptionally cold winter, leave one in doubt as to
why the birds did not perform as usual. Taking all
the figures one can see the advisability of hatching
pullets in late March or April where winter eggs are
wanted

## HORTICULTURE

Growing Strawberries for the Factory.
The following comprehensive treatise on straw-
berry culture is a repronuction of a paper delivered git Association by Jas. E. Johnson, Simcoe, Ont. Mr Johnson is a recognized authority on all matters per-
taining to fruit growing, and the address which we reproduce in the following paragraphs will be found very instructive: "The success of strawberry growing depends on the liking and experience the grower has towards this particular line of horticulture. I shall endeavor to factories as concisely as possible. I feel that we all have a great deal to learn about strawberry growing
at the present time, I finding it far harder to grow at the present time, I finding it far. harder to grow
strawberries during the last three years than it was ten or fifteen years ago, owing to the costs of production and unfavorable climatic conditions. The old cry that the strawberry industry is being overdone is not founded on facts, as the local markets for the past two years
have been very high for first-class, well-packed berries. Selection of site.- It is desirable to choose a piece at a fairly high elevation, which location is warm and drainage is to late frosts in blooming time. Good air berries' while you may make a success certain years in growing strawberries on low lands you are also taking
a great risk of frost at blooming time, except close to

Soil.-The ideal soil is a good rich, humus-containing loam, (which is well drained) with clay sub-soil. The one condition of soil on which it is never advisable to
plant strawberries is fresh-plowed old sod. I prefer to plant strawberries is fresh-plowed old sod inawberries after a good crop of corn or beans Manuring and Fitting.-After the selection of the best available site for the strawberry bed has been made comes the immediate work of preparing the land they require from 30 to 40 tons of manure to the acre to be applied just before plowing. I prefer plowing the manure under rather than top-dressing and working plants have long roots the feeders of which will soon
feed the plant from the manure; besides, where the fertility in the soil is located there is where the roots go, and by having the fertility fairly deep in the soil the
roots will naturally go there for nourishment. The plant wilt not stand dry weather as well when the roots are short as when the roots are deep in the soil.
Plowing.-On heavy loamy soils I would prefer plow in the fall of the year, but on sand-loam-soils I
would just as soon plow in the spring after top-dressing with manure in the winter time, and in either case I early in the spring al possible and continue until planting, I use a float in place of a roller for the levelling and
pulverizing of the ground before marking. Marking.-I have my marker made so that my
rows will be 42 inches apart, planting in the row from 24 to 30 inches apart.
Digging the Plants.-Digging is done with the 5 or set bed, having in the field plenty of wet sacks to cover cleaned. It is gnod policy to dig the plants just a short
time before one is ready to clean them. very carefully, discarding small and dark-rooted plants
and removing all old laterals and dead leaves. The
roots are of a light yellow color. There has been a
great deal of moncy lost by the strawberry growers in oce Planting. The time to set plants depends on your week in May, keeping the tops of the plants wet from
the time they are cleaned until planted. Endeavor to
get your plants dug and planted the same day if possible.
lant withou cont too deep, for a dust mulch is what is required. Culti-
vate often enough so that the weeds are killed before they come through the ground, and as soon as the runners start, cultivate only in one direction and narrow Then place the runner cutters on your cultivator and Then place the runner cutters on your cultivator
keep the rows 15 inches, and cultivate until frosts.
Picking off Blossoms.- It will be necessary to go over
he newly-planted field twice to keep all the blossoms removed, as the young plants cannot grow to be strong

Hoeing.-This should be done arefully about five
Hoeing.-This should be done carefully about five plant and at the same time placing the runners, keeping in mind that you want an even-matted row 15 inches Mulching.-I believe in protecting the plant for the winter by using 4 to 5 loads of straw to the acre,
spreading on top of the row. This is left on until the next spring and then moved, when the plants begin to turn white, to between the rows, which serves to conserve the moisture and keep down the weeds. This is a great
comfort to the pickers. It is generally necessary to go comfort to the pickers. It is generally necessary to go
through the patch before the bearing season and pull up what weeds may appear. Picking.-Harvesting for the canning factory should
not start until the berries are thoroughly ripe, going
over the patch twice each week, under normal weather over the patch twice each week, under normal weather
conditions, in the strawberry season. The pickers are furnished with a tray each holding 6 empty baskets, and as soon as the 6 baskets are filled it is taken up by
one of our men. He in return will give the picker another ne of our men. He in return will give the picker another empty tray containing 6 baskets, aso a ticket for the
6 baskets of berries picked. This enables the pickers to be continually employed in the picking of berries, and thus are not nearly so apt to miss picking some of the berries in own trays to the packing houlse. I could enlarge here on many advantages in keeping the strawberry here on many avantages in constantly employed in the picking of berries. We pay once a week, retaining $1 / 2$ cent per basket as
an assurance that the pickers will stick to the work for the whole season. It is always easy to get ickers when the berries are at the best, but towards the last of the season when the berries begin to get small, some pickers get a strong mind and a weak back and feel
that they have earned so much money while the picking was good that they will not pick any more berries that season. Therefore, I have found this plan of settlement has worked out to the mutual interests of myself and the pickers. I have always worked co-operatively
with my pickers, bearing in mind that berry-picking is hard work, and I pay them a price per box so they can make a good wage. I have always had plenty of packing houses and packed in crates, being careful to see that all boxes are well filled. If I were growing berries for shipment the packing house is the place where I would berries, that every box of berries must be "rood to the bottom" giving the most exacting consuming trade honestly packed berries. Picking should also be done every day. We leave our berries with a stem $3 / 4$ inch long. I believe if we would packing of our berries for the consuming public, and with the great cost at the present time in the production of berries we will have to look for markets to place a factory has been paying. This has been proven quite clearly the last 3 years as strawberries have been in big myself who contracted early did not get a big price,
and have not made as large a profit as those who and have not made as large a profit as those who sold Varieties.-I grow Parson's Beauty and few each of
Sample, Kellog's Prize and Senator Dunlop As soon as picking is completed, if the patch is in
good condition, I start the mowing machine and with a 2 -horse corn cultivator, narrowing the rows
to 12 ind to 12 inches, then I harrow twice crosswise and foltow ly hoeing and keeping cult vation up untin frost. Then

Founded 1866

THE FARMER'S ADVOCATE.

Cost to Produce One Acre
40 tons manure at $\$ 2.15$ Hauling and spreading manur Preparing to p plant
6,000 plants at $\$ 6$ Planting... Cultivating. Hoeing, placing
Straw spreading Taking off stia Management.............
Ineterest on investme Ineterest on investmen
Rent of land, 2 years

My average yield for the last 3 years has been
, 000 baskets to the acre. The cost of picking, includ-
$\begin{array}{ll}\text { ing breakage of baskets, and building packing sheds } & 4,000 \text { baskets per acre remains } \$ 110 \text {. Making a total } \\ \text { average } 23 / 4 \text { cents per box, or a total of } \$ 10.00 \text { per acre. } & \text { cost the second year of } \$ 264 \text {, or about } 63 / 4 \text { cents per bax } \\ \text { This makes a total cost of } \$ 403 \text {, or about } 10 \text { cents per } & \text { I also have been able, at times, to save a well-cared } \\ \text { box for the first year. }\end{array}$ $\begin{array}{ll}\text { box for the first year. } & \text { for patch for years, but in order to do this a well-cared have got } \\ \text { For the second year: } & \text { to give your patch the best of attention, but you } \\ \text { can readily see that the cost of production is }\end{array}$

> Twenty-five tons manu
> Mowing and moving straw

Cultivatio
Staw and spreadin
Taking off stra
Management.
Interest on investment

## $\$ 53.75$


5.00 have lost many mable to the careless growers as county
stray

FARM BULLETIN.
$\qquad$

## Parliament and Proposed Legislation.

$\mathrm{F}^{\mathrm{OLLO} \text { OWING the practice laid down by custom in }}$ thouse of Commons, the frist maior duty of the Parliament of Canada is to deate upon the
ddress in reply to the speech from the Throne. It is customary, also, for the motion tor an address to come
 member from the same side speaking in French This
year it was undoubtelly fiting and, withal, , uite good soldies, both of whom, however, spoke in Enylish. soolewing these initial speceneserer the sobe in in Eng ish
 parliamentary procedure, which are carefuly guarded
and enforced by the Speaker, Custon again decres, and envorced by the spaaker Custom apain decress,
howeret, hat the dobate ev led by the eaeder of the
One
 ment, ater which the order of of seakiang is made oup by the
whips from names of members who have signifeed a whips from names of menmers who have signified a
desire to speakk At time of writiog, something more
thand began, and there seem no indications of $a$ wind-up being reached before Tuesday (March, 11). Before, this roche hoped that everyone who desires will have been given a chance to speak so that the Hoose may yet down
to the business for which it really met my
 to be fared, judging from impressions gathered as a
newoomer in the gallery, that the end can only come
 Hansard, together with most of the literature published during that period. As an instance, one honorable in Hansard, of which overer two pages was taken up wize
 his voice
Boishevism as it exists in Russia has been the subject of extensive argument across the floor, very little of
which has been in any way relevant to the subject of the address. Humor is not unknown- thanks be- and if
must be that some members recognize the paucity of
 pall on one, especially when the same excuse for reparté bandied atotot from piliar to post and much bedraggled
 Cerreseatatives of the people or both sidesos of the Horthy
rouse
sulter trat enni sulfer from ennui as a result of a prolonged debate, and
incipient yawns, newspapers and racant seats are alike

 the flor it it a striking fact alout the deliberations
of the House that at one time order in the House may

 Now, we would not like to spread broadtast the itea
that the procecings of the Canalian rarriament are as
ther arce, because such would be frit from true, There
does seem to have been consideratle time wasted and
to
pretty much cut and dried before the members gather
together. New members who reach Ottawa for first session soon find that some of the things they may have planned to urge, would seriously embarass the
Government; and that, matter of any considerable importance other than along the lines of the prepared program, would be frowned
on. by "the hands that rock the cradle." Obviously this is to keep a bold and united front before the country cussed by the Cabinet, or in caucus and are dis it is that members really do their best work for thei
constituents off the floor of the House. And thus it is too, that the House does not begin to sit until three
o'clock in the afternoon and debates often continue of into the wee sma' hours. The forenoons are spent in on matters pertaining to the constituency-if they ar Reference has been made to the wordy debates which take place in the House, and waste time. All this time no importance; and it is probably correct to say tha Government. Debates such as the one on the address and the one on the budget which is to follow, are probably of reading what his representative is saying; just ously against the evils, mer who can declaim vigor particular party, action or piece of legislation, sure that reach the people who elected him. The two debate
mentioned above afford opportunity for members to
diser discuss everything from a sandstorm in Timbuctoo to inevitably brings forth a variety of viewpoint and medley of ideas, among which the Government may
pick and choose if they so please. No doubt, legislation lorcasted in the speech from the Throne is not absofear some member of the Opposition may have an idea,
or, perchance, one of their own followers may shed a shining ray of wisdom upon the troubled math of the party in power, whichever it may be. One thing we realize the s representatives endeavor, individually vary, in brain power as well as stomachs and lumber his own interests, the power of the ballot is appreciated
pretty generally by the men who have won elections Naturally, Proposed Legislation.
ment legislation forecasted in centred about the Govern-
The speech from the Throne and it is, perhaps, opportune now to review the
purpose of the principal items in the program. No
one provision for soldier settlement, which act will making
pery important of the Covernment. Most readers are, doubtless,
already familiar with the gencral already lamilar with the general outline of the plan,
which provides a maximum loan of $\$ 4,500$ for land,
$\$ 2,000$ for live stock and equipment, and $\$ 1000$ for permanent improvements, to each soldier qualifyin Physicaly and ly experience, for land settlement.
The money for land and improvements is loaned on
the amortization The money for land and improvements is loaned on
the amortization plan, repayable over a period of
twenty-five years, that for live stock and efion
 Mud eneaty sothat we. inend
said, "The money will be spent on the roads on Which it should be spent, not on byways by any means, but on hif the Dominion Gorteries of the country:" Nom expenditures of this money for highway improvement, there is no doubt that the main highways should receive
the benefit. But, aside from the question as to the Federal Government would be within its rights in entering upon highway construction, the money is to be expended by the provinces under agreement with the
Federal Government Good roads Federal Government. Good roads are a very valuable
assest to the farmer, hut it is only a matter of common sense to know that the benefit he will derive from a permanent highway is limited by his nearness to that highway and the condition of the road between it and his farm. The Western farmer, even less than the
Eastern farmer, is Vikely to benefit from a system of main highways and is likely to find them loom up larger in his individual tax bill. Moreover, since most of the large expenditures planned by the Government have been designed to relieve unemployment, there is the resources during the reconstruction period shipbuilding, might be considered the Government's be required during this and the next fiscal year cor tainly other lines of expenditure might probably be expense to the country and with less danger of the finished product deteriorating in value due to the
cheapening of ocean tonnage in a short time it and has been argued, also, that ships can be built much more cheaply in England than in Canada. These Fort William, Vancouver and Victorianto, Port Arthur, The housing scheme, from an agricultural viewpoint 000,000 loaned to the provinces at five per cent. is used In part for the building of houses in rural districts. In Eastern Canada at least, those who have studied the
question are agreed that a partial solution of the labor problem depends upon the employment of married men. nd itficulty is to find houses for the men to live in, instanco would that profits from farming in the average ngs, to relegate still more the erection of more buil "unproductive" class. We have gone far enough in centres; some steps should be people to live in urban movement the steps should be taken to bring about a and should other way. This is a national problem recognition of the basic nature of agriculture in our A Department of Public Health is to be created, upon which project, we fancy, no material criticism
can be brought to bear. Medical men in the house who should be our best authorities and of whom there improvement national direction, and why not that of the people? It is true that the provinces, have pablic health officials, importance and, provided that Dominion and Provincial work does not overlap, the new department should be productive of good. There is some virtue
in the suggestion made by one member in the House that the scope of the department be widened to include public welfare instead of only health.
Public sentiment will favor also the granting of voting privileges to women and provision for their provisions the new franchise act will contain, are not definitely set forth as yet. The repeal of The War
times Election Act stands as a plank in the Farmers
Platform of a similar tendency would be resented by farmers, especially now that the war is ended.
Legislation favoring technical and vocational training is promised and this principle will be supported by the Epposition, according to the leader, D. D. McKeraty
Education of this kind has already been favorably discussed by farm organizations, notably the united
matter comes up in the House. Among the smaller bills which will be passed anaies,
if time permits, is one bringing the steamship compand
whose boats, to the number of 4,500 navigate our inland


Toronto, Montreal, Buffalo, and Other Leading Markets

Week Ending March 6

| Toronto <br> Montreal (Pt. St. Charles) <br> Winnipeg <br> Calgary. <br> Edmonton |
| :---: |

Receipts and Market Tops
cattue

| Receipts |  | CATTLE |  | Price Good Steers |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | $(1,000-1,20$ | Week |
| Ending | Week | Ending | Ending | Week | Ending |
| Mar. 6 | 1918 | Feb. 27 | Mar. 6 | 1918 | Feb. 27 |
| 7,349 | 5,562 | 6,740. | \$15.75 | \$12.00 | \$16.00 |
| 602. | 928 | 666 |  | 12.00 | 14.50 |
| 616. | 516 | 1,045 |  | 12.00 | 14.50 |
| 1,544 | 1,002 | 3,565 | 15.50 | 12.75 | 15.50 |
| 1,492. | 1,067 | 2,725 | 14.92 | 11.75 | 15.00 |
| 530 | 184 | 1,174 | 13.50 | 11.00 | 13.75 |
| HOGS |  |  |  |  |  |
|  | Receipts, |  |  | op Price Sel |  |
| Week | Same | Week | Week |  | Week |
| Ending | Week | Ending | Ending | Week | Ending |
| Mar. 6 | 1918 | Feb. 27 | Mar. 6 | 1918 | Feb. 27 |
| 4,493. | 12,858 | 8,954. | \$18.50 | \$19.75. | \$18.00 |
| 1,135 | 1,609 | 1,361. | 18.00 | 20.50 |  |
| 688 | 928 | 744. | - 18.00 | 20.50 | 18.00 |
| 4,238 | 4,214 | 8,650 | 17.25 | 19.25 | 17.25 |
| 1,710 | 1,932 | 2,997. | 17.15 | 18.25 | 17.00 |
| 585 | 609 | 1,023 | 16.75 | 18.00 | 16.40 |

$\rightarrow$ Dominion Department of Agricuture When Receipts CALVES

| Receipts |  |  | Top Price Good Calves |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | Same |  |
| Ending | Week | Ending | Ending | Week | Ending |
| Mar. 6 | 1918 | Feb. 27. | Mar. 6 | 1918 | Eeb, 27 |
| -883.. | ..1,002. | 517. | \$19.25 | \$17.00. |  |
| 1,062 44 | 9162 | 694 | 15.00 | . 16.00 | ... 14.50 |
| 39 | 18 | 3075 | 12.00 | 16.00 | ... 14.50 |
|  |  |  | 10.00 |  |  |
| 43 | 50 | 109 | 11.00 | 12.00 |  |


| W | SHEEP |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Receipts Same |  | Top Price Good Lambs |  |  |
| Ending | Week |  |  | San | We |
| Mar. 6 | 1918 | Feb. 27 | Ending | Week | Ending |
| 1,113 | 526 | 1,333 | \$1825 |  |  |
| 108. | 77 | 123 | 15.00 | 17.00 | 1500 |
| 107. | 110 | 233 | 15.00 | 17.00 |  |
| 133. |  | 70 |  |  |  |
| 61. | 498 | 804 | 13.50 |  | 13.50 |
| 194 |  | 2,749. | *10.00 |  | *10 |

## Market Comments Thoronto (Union Stock Yards.)



 grades on the Monday market compared
with values at the close of the previous
 mand was inclin-wed tok be tradinge, when ont prices somewhat weaker. The Amorican in intiry
was curtailed to a certain extent
and
 States points during the latter part of iliberal shipments seing made to $t$ t.
Bufalo onaret on speculation and
 heek A few weighty cattle were on sal
but
really choice heavy stock sal
 on one or two occasions within the previous few weeks. A few lots of steers
weighing from twelve hundred to thirteen
hundred pounds per animal sold during the week at $\$ 16$ per hundred, and one lo at $\$ 16.25$. Of steers weighing from tei
hundred to twelve hundred pounds each a few head of eleven hundred and fift pounds brought $\$ 16$, a straight load
averaging eleven hundred and fifty pounds sold at $\$ 15.75$, a few loads were weighed up from $\$ 15$ to $\$ 15.25$, while
numerous sales were made from $\$ 14.50$
to $\$ 14.75$. to $\$ 14.75$. Medium quality in thes
weights sold from $\$ 13$ to $\$ 14$. weights sold from $\$ 13$ to $\$ 14$ per hundred.
A few handyweight butcher steers
averaging nine pounds went at $\$ 14.50$ per hundred, while a straight load of twenty head realized \$14.25. Other good sales included thre
heifers averaging eight twenty pounds at $\$ 14.25$, sixteen head averaging nine hundred and forty pound
at $\$ 13.75$, twenty-five head averaging $\$$ nine hundred and seventy pounds at stock from $\$ 12.75$ to $\$ 13.25$ per hundred Medium quality stuff realized from $\$ 11$ were in good demand. Cows and bulls young cows sold from $\$ 12$ to $\$ 12.50$, and
one or two at $\$ 13$ per hundred. Hower $\$ 10$ to $\$ 11$ per hundred common and medium grading frome $\$ 7$ to $\$ 9$. A few odd hulls sold up to $\$ 12$ per bulls to $\$ 11.25$, while medium in price from $\$ \$ .50$ to $\$ 4$ lity

steady prices and a few shipments



## Fouxded 6018

g Markets partment of Aiftculuurity

| Week Mar. 6 <br> $\$ 19.25$ <br> 15.00 -1500 <br> 12.50 <br> 10.00 | $\begin{gathered} \text { Same } \\ \text { Week } \\ 1918 \\ \$ 17.00 \\ 16.00 \\ 16.00 \\ 13.50 \end{gathered}$ |  |
| :---: | :---: | :---: |
| 11.00 | 12.0 |  |
| EEP |  |  |
| Toek Price Good Lambs |  |  |
|  |  |  |
| M | +19 |  |
| \$18 | \$19.50 |  |
|  |  |  |
| 15.00 |  |  |
|  |  |  |
| * 10.00 |  |  |

Price Range
Bulk Sales$\begin{array}{r}\$ 11.00-812.50 \quad 812.5 \\ 9 \\ 900-11 \\ \hline\end{array}$$7.00-10.50 \quad 11.00$
$7.00-8.50 \times 1$
9.00
$\begin{array}{ccc}8.75-9.00 \ldots \ldots & 11.00 \\ 9.00 \\ 5.00\end{array}$
$12.00-14.00 \quad 15.00$
$\cdots$
to prime, $\$ 16.50$; hest $\$ 17$; choice heavy, $\$ 16$ to good \$12.50 to \$14; light and common,
$\$ 10$ to $\$ 11$.
Cows and Heifers- Best heavy feeders,
$\$ 13$ to $\$ 13.75$ : cood butchering heifers, $\$ 12$ to $\$ 13.35$; fair butchering heifers,
$\$ 10.50$ to $\$ 11$; light common, $\$ 88$ to $\$ 9$; very fancy fat cows, $\$ 11.50$ to $\$ 12$;
best heavy fat cows, $\$ 10.50$ to $\$ 11$; good butchering cows, $\$ 9$ to $\$ 10$; medium
to fair, 8775 to $\$ 8.50$; cutters, $\$ 6$ to $\$ 6.50$; Canners, $\$$ Best to $\$ .50$. $\$ 11$ to $\$ 12$; good
butchering $\$ 10$ to $\$ 10.25$, $\$$ susage, $\$ 8$ to 89 ; iight bulls, 87.50 to 88 :
Stockers
Sesage, \$10.50 to $\$ 11$; common to fair, 88 to 89.50 ; $\$ 8.25$ to $\$ 8.75 ;$ common, $\$ 5$ to $\$ 7$.


Hogs.-Market last week, due mostly
on account of short receipts at all market-
ing pocount shot short receipts at all market-
ment. Mind
monday heansiderable impovetop prices, these bringing up to \$18.4.0,
yorkers and
 landed at $\$ 18$.10), with pigs selling tup to



$\qquad$

March 13, 1919

| Incorporated 1855 |
| :--- |
| The Molsons Bank |
| invites farmers to discuss their |
| financial requirement at any |
| of their many branches. |


1,821 calves, 7,102 hogs and 4,523 sheep,
received during the corresponding period

## Buffalo

Cattle.-Cattle market had a good start
Buffalo last week, opening strong to a at Buffalo fast week, opening strong to a
dime to fifteen cents higher on shipping steady but before the week closed values showed a drop of from a quarter week's opening Canadian cattle were in larger supply than for the previous week
and incluced some very desirable steers and heifers, steers ranging up to $\$ 16$ to \$13.35. Cheaper butchering stuff did not show much, if any decline but on a
better kind of bulls values ruled lower, better kind of bulls values ruled lower,
others unchanged, a good market being had both on milk cows and springers and totaled 6,225 head, as against 4,175 for
the previous week and as against 3,650 for the corresponding week a year ago. Quotations:
Shipping
prime, $\$ 17$ to $\$ 18.50$; fair to good, $\$ 16.25$ coarse and common, $\$ 10.50$ to $\$ 11$; shipping steers-Canadiane- Best heavy
$\$ 16$ to
816.25; fair to medium weight, $\$ 14.50$ to 815.50 ; com-
Butchering, stest


## Farmer's Account Book

This book is as complete as we can make it There is a place in it for everything you
plant, raise, buy, sell, have on hand; with a summary or the years ousiness.

It puts your farm on a business basis. It is free to Farmers.

Write or call for a copy at any Branch of the
Bank or a post card request addressed to the Rural Service Departmient
Merchants bank of Canada, Montreal or Winnipeg.
will bring you a copy, of the book by first mail

## THE MERCHANTS BANK <br> Head Office: Montreal. OF CANADA. Established 1884

## IMPERIAL BANK OF CANADA

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In your busy seasons and whenever inconvenient for you to go to the bank in person, send in your deposit by mail.

Immediate"y on receipt of your postal order, cheque or registered letter, the amount will be credited to your account.

126 Branches in Dominion of Canada
chickens, crate fed, 30 c . per Ib.; chickens,
ordinary, fed, 25 c . per pr.; ;hens, under



## Montreal

Horses.-Dealers report no improvement in the market, although carter are picking up a few animals here and mares are going to the country at around $\$ 150$ to $\$ 200$ and heavy draft horses weighing 1,500 to $1,700 \mathrm{lbs}$., were changing hands at $\$ 250$ to $\$ 300$; light draft, weighing 1,400 to $1,500 \mathrm{Vs}$., were $\$ 20$ to $\$ 25$ each. Lignts $\$ 575$, culls, $\$ 50$ to $\$ \$$ each; fine sach
carriage horses $\$ 175$ to $\$ 250$ each.
carriage horses $\$ 175$ to $\$ 250$ each.
Dressed Hogs.- There was a moderate trade in dressed hogs and prices showed very little change, the range being
from $221 / \mathrm{c}$. to $231 / 2 \mathrm{c}$. per 1 l . for small lots of country-dressed light and medium weights, while abattoir fresh-killed stock
brought $241 / 2$ to 25 c. per 1 b . Poultry.-Prices of turkeys were firm,
at 43 c . to 44 c .; while chickens still ranged from $3 \overline{\mathrm{~s} c}$. to 40 c ., according to quality, and fowls at 28 c . to 32 c . Ducks brought 33c.
to 38c., according to quality and geese Potatoes.-The market was steady at a slightly lower range than prevailed a month ago. Green Mountains were
$\$ 1.65$ and Quebecs $\$ 1.50$ per bag of 90 lbs., ex-track, and to these prices
added 25 c . for smaller lots, ex-store.
$\qquad$ it is thought that they will likely remain
moderately steady now that Lent is here and the consumption will be directed
towards eggs. Strictly new laid stock
was quoted at 45 . per dozen, while cold No. 1 are 36 c .
Butter.- This market was stronger an choicest creamery sold in solid package
at 52 c. to 53 cc . per 1 b . Fine quality was
51 c. to $511 / 2 \mathrm{c}$, while dairies ranged fron
42 c

25c. for No. 1; $241 / 2 \mathrm{c}$. for No. 2 and 24 c .
for No. 3 cheese. Grain.-Car lots of No. 2 Canadian oats were quoted at $831 / 2$ c. per bushel $781 / 2 \mathrm{c}$; No, $771 / \mathrm{cc}$., extra No. 1 feed, white, $721 / 2 \mathrm{C}$, and No, 3 white 70 c , per bushel, ex-store. Cars of Ontario extra No. 3 barley were $\$ 1.05$ per bushel, No. Flour. - The 98 c.
Flour.-The market was unchanged, flour at $\$ 11$ per barrel, in jute bags, extrack, Montreal freight, for shipment to Ountry points, and to city bakers. to $\$ 10.30$ per barrel, in new cotton bags. our at $\$ 8.50$ to $\$ 9$, per barrel, in bags. Millfeed.-Car lots of bran were cluding bags, ex-track. Pure grain mouille was $\$ 64$; oat mouille, $\$ 69$ to $\$ 62$ pure barley feed $\$ 52$ to $\$ 54$. Mixed Hay ex-track, in car lots; No. 1 light clover mixture, $\$ 24 ;$ No. 2 timothy, $\$ 24$; No.
2 clover mixture $\$ 23$; and No. 3 timothy Hay Seed -Dealers quoted the following prices offered to farmers, country
points: timothy 8 to 12c. per 1 b . red
 grasers 22a, beer hides lower pat licic



Chicago

Catue Cailic conprated with a ween



## 472 <br> Through the Eyes of a Canadian Woman in England

THE FARMER'S ADVOCATE.

$B^{n}$ TTAIN as thou wert, thou art
or at least making every effor appear so, in spite of great labo unrest and strike upheavals througho
the length and breadth of the Empire. One cannot help feeling that there is great change in the atmosphere already
it can.be'noticed in the faces of the peopl on the streets. There is light chatter and there are gayer clothes. People are
like butterflies emerging from a chrysalis of four years' growth in the shop wind
all aglitter were aith sequiy dancing firocks,
utility There is a revival of dancing everywhere amounting
the music of the Jazz band. Restaurants tempting and plentifui. I fould hardly some cakes decorated with rosettes of
Mocha icing (almost worth their weight in gold! Even here and there new shops
are springing up like mushrooms rather re-opening now that proprietors
and staff are coming into their own again. shoriced a number of new delicatessen shops, in the vicinity of Regent and
Oxford Streets, run chiefly by French and whose windows crowds of people cagerly gazed upon entricng daintes which their
palates had becone strangers to. Day
by day we wart-time visitors can see England returning to her forner glory
But, of course, Canada will seem up-to here. Dear old England has often nuade
us impatient with her slow and sure methods, but we would not have her
otherwise. It would not be England.
Even her disconfort no charm. I once heard an English woman
who had visited Canada (I must stop place!) say that paople in the "colonies"
though most of comfort and conveniences,
whill
 scarcely imagine heself landiny in an
country where there are hops and houses
without rows of red fre she heated rooms and pitchers of water in
which the ice tinklesesicontifential chats
over telephones instead of telcerambs


What My Neighborhood Needs for Its Improvement.
$\qquad$
$\qquad$
$\qquad$

## .

 domestic England. A few of the more enough and began to look about, but told me they disiiked most the thought ofgiving up the hostel or institution life where they have been so happy together the ithers, great husky girls, dreaded
the indoor the the long hours. A
party of them invaded my sanctum one party of them invaded my sanctum one
evening , looking very shy sat evening, looking very shy at first; but burst out with "Matron, couldn't you any chance for carpenters there?" 1 was
full of sympathy but could not promise them anything. However, I told them work in Canada if they were willing to
engage in anything that offered at first
I wished then that a large contractor whom ! knew in recollection of the difficulties at home of
getting oman to do any ord jobse albout
the house, led mo to the could lay floors, make benches, put up
shelves, mend furniture, etco, would not come amiss. The girl confided in me
that she understodd there were greater
chances for getting married in Conadt so many more women than men in
England, and $i$ would be worse than ever now" Evidently our Canadian boys have
made a vood impression on English girls.
II unrest it was announced that the toy mhdustry was under consideration, and
the sirls were asked to make something
to show they had 10-day I saw a wonderfuul litule wooden
vhicle, a miniature automotic, a tea
caddy the shape of a housc, and some wooden spons, etc. The fore-woman
had been sent to the big tovshops in
London to select samples
 the past. The few home-manufactured
ones shown in the shops this (lirisuras
looked yery crude, but liy next vear there
$\qquad$
$\qquad$ ind merchandise. Even our precious
make the G. T. R. realize the necessity of having one. It would enatle uesesty
only to receive the carbonate which is so essential to our soil, in can load lots sut would make our station a cotatoes, roots and vercte shipping of potatoes, roots and vegetables for mbich
this soil is especially adapted. We have besides, a sawmill' here which have, factures cheese-boxes at the present time and is worthy of consideration by the

$$
\begin{aligned}
& \text { Our public schools must educate } \\
& \text { the boys to the value of the material }
\end{aligned}
$$ the boys to the value of the maturiale

mentioned in the above letter and to
then neighborhood are to make general use of cattonate of lime they will need dee
monstrations to prove te doubted value. We need to be educated to such things. Small plots for suchatad estimable value in the education of the children. - Poor" as our district is, you principles of what I have said that three with equal force hore as elsewhereply

1. Accurate knowledge instead of
2. Facilities of transportation. (G. T.
R. 3 .indly take note.

When these principles are well de-
vilipec the travel wither of our neighborhood
wire step and firm, and
$\mathrm{S}^{0}$ much depends on the soil where the
its absence, that I have considered at length. But aside from any diss,
advantages of that kind my neighborhoods advancenent, speaking generally, will
depend much on the energy with which depend much on the energy with which we attack our every-day routine work;
will depend on the efficiency of each one of us as we follow our occupations whether in the house or in the fecldifitit will depend
on co-operation, the community spirit's presence, on high ideals in its young social itie and on a practical religion
vhich must permeate our daily affairs. Anything, however apparently insigim. individual in my neighborhood will effect the neighborhood as a whole. Any progress that my neighbor makes is an addition to the value of my neighbothod.
The individual advancement of one puts new life into all. I would like to Because of all this, I woutd like to
see the young farmers get together in that disused church-building of ours and div-
cuss matters of common interest to them cuss matters of common interest to them hood. The exchange of views keeps the hood. The exchange of views deepst on
flame of interest aglow and a debat on Monday night in which the farm boy Monday night in which the tars tesuant to his mental and physical energy is he works during the rest of the week.
I fear that many of us are mentally azy. We work hard enough-from early morning till late into the night in many
cases. It would pav us to mix brains The great need of the present hour we
 apital E. The "Farmer's Advocate" has ften made reference to this matter.
Vere 1 addressing the people of myt eight ontiond T would say tose their out-

OUNDED 1866

e G. T. R. realize the necessit
g one. It would
g one. It would enable us m
receive the carbonate of
Ir soite of in lim
our star
staion
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d. We have
which manu-
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the materials
hetter and to
ople of this
general use
will need de
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for such and
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strict is, you
id that three
rtance apply
elsewhere in
instead of
ation. (G. T.
ement.
are well de
neiphborhood
and firm, and
makes is he value of my neighbotho
would like to
together in th
otly of comon interest to them
est aglow and a debate on
mental and physical energy
hard of us are ment
uld pay us to mix bra
ed of th
Efficienc
"Farmer
$\qquad$
$\square$
$\qquad$

March 13,1919
use when the well has gone dry. Out
capital, what little we have, must be invested in getting our soil into a ready-to-produce for latest in farm machinery. There are many improvements in the
details of our work that are possible without much expenditure best, easiest, Few of ius dest ways consistent with our economic not mean to infer that I am very efficient myself but am trying to throw a
little light on a matter which is very important to the advancement of our com$W \begin{gathered}\text { ERE I to set down the ideals } \\ \text { that I have formed } \\ \text { what my farm shall be twenty }\end{gathered}$ years hence, some of my neighbors on
reading would smile. But ideals are essential to success. Let us have visions
too of a community which will honor the Province
to Canada.

Getting Ready for the Garden.

Order your garden seeds now, if you
have not already done so. You may want to start a few in boxes in the ho
or in a hotbed, for "early" vegetables.

Fertilizer for Garden
Plenty of well-rotted barn-yard ferti-
lizer is one secret of a good garden.
it was not put on the garden in the fall,
the sooner it is put on now the better.
especially if it is not well rotted. Manure
that is almost resolved into earth is the only kind that can be safely worked into garden soil shortly before the seeds are
put on. If new it will be too hot and
will hurn the young rootlets.
Vegetables for Health and Appetite. Every farm garden should have some
rows of each of the following: Beets, parsnips, carrots, salsify, onions, cabbage,
cauliflower, cucumbers, lettuce, marrow, radish, winter radish, Swiss chard, celery and artichokes. The field crop may be
depended upon for peas,corn and potatoes

Annuals for Profuse Bloom.
order some seeds of annual flowers, also, to have plenty for cutting. The
following will give you flowers in proIusion, given the right kind of soil and
just a little care. Sweet peas tiums, asters, morning glories, Shirley
poppies, phlox drummondi, candytuft,
coreopsis, petunias minnote scabiosa, zinnia, verbenas. Be sure to,
read directions on packages and follow them carefully. It is always best to
order seeds directly from the seed-houses (see advertisments in various issues of
this paper). They will send you a
catalogue on appliction Planning the Garden.
Plan your whole garden now. Think
around every side of the guection, draw plans on paper until you get the one
that suits you.. Don't have ten times too
many carrots. and matoes. Rementler that by wise plant-
ing you tables from often get two crops of vege-
instance eot of ground. For celery, cabbyge, cauliflower, etc.; tomato
plants may bee set where early have been; radishes may be sown with
carrots or beets lettuce pricked out and set alone, in odd spots,
to develop to full size can do when crowded in the row. When
planning the garden allowance may be
$\qquad$
for a few flowers out the seed list allow themums, marigulds, hardy asters, zin-
nias and verlo threatens, in late October, any of these
may be taken into the house, with
plenty of soil blonty of sonl athering, and will keep on
blooming. flumeng the very best fallgarden hydrangea and Japanese anemone;
also the little at:mal verbena, which often
blooms Extra Good Varieties.
"Danish Ballhead" types of cabbage,

## THE FARMER'S ADVOCA'TE

##  iname wand mine in <br> Hope's Quiet Hour.

I have set the Lord always before me:
because He is at my right hand, I shall
not be moved. Therefore, my heart is Christ to walk in him "with thanks giving. There is a marvellous power in
conscious fellowship with God to make
people glatl. A few days ago I was talking to a bright-faced woman who
shrank away in pain when I touched her hand. She can't endure even the weight
of the bed-clothes on her feet, yet her
face is all cunshine iace, yet she was unable to speak or lift
five, yer voice is only a whisper-but her heart is
lad, because she knows that the Lord is Last week a friend in Boston sent me a saints, who has just escaped from the
bondage of the flesh. For years she was delpless and suffering, yet her unfailing o the birds. They used to fly in and Though St. Paul was a prisoner chained to a soldier, he did not lose his happy, king Agrippa," he said in all
sincerity. The note of joy rang out in his epistles, no matter what his outward orsook him he did not feel lonely, was standing invisibly beside him to
strengthen him. He could not see Christ, any more than we can; yet his always at his right hand. Nearly two
thousand years have passed since then, yot the Master of St. Paul is still a very
present help to all who can say, like the present help to all who can say, like the
Psalnist: "I have set the Lord always
before me. I therefore, my heart is The Living JESUS is-
"No dead fact stranded on the shore Of the oblivious years;-
But warm, sweet, tender, even yet And faith has still its, Olivet, The secret of gladness is to walk
consciously in God's company and take the daily work, the daily trials and the hand. As a saintly writer has quaintly expressed it: "Our might is as brilliant
as our day when God is in our hearts, and our day is night when God is absent
from us." Faith has been a light in the darkness to men in all ages; and it is
lighting the darkened lives of millions of people to-day.
We all want to be glad, of coursethough we often shut out the sunshine and see any of the pleasant things which still
remain to us. But perhaps we forget that gladness is a duty and gloom is a The prophet Amos gave Israel God's message that they should offer a sacrifice
of "thanksgiving." Why? Because God had tried so persistently to cure them of
idolatry and bring them back to Himself. He had sent famine and drought, blasting and mildew, pestilence and war.
What strange reasons for thanksgiving! Yet it was a proof of His unchanging love "You only have I known, of all the families of the earth: therefore, I will punish you
for all your iniquities." If we walk glad always, because the rain comes from a proof of His love. He that refuseth correction despiseth his own soul: but he
that hearkeneth to reproof getteth under-


If I could have the table He
Once made in Nazareth
ot all the pearls in all the sea
As long as men have breath,
Could buy that thing of wood He made,

But a far more glorious thing is offere s, even the daily companionship of the Man of Nazareth. He is at my right Looking on me in love. Yea, Thou dost meet
Those that remember Thee. Look on Lord Jesus Christ, and let Thy look give work for ., Thee with single heart

Gifts for the Sick and Needy A "reader" in Quebec sent a dollar dollar for the needy. Several readers "-which will be welcomed by my friends in the hospital. $\quad$ Dora Farncomb,

## The Windrow

It is interesting to note that the Big
Four at the Peace Congress are: A Welsh lawyer who began life as a schoolmaster an American college professor; a college professor from Italy; and a Frenchman Lord Satyendra Sinha, appointed Under Secretary of State for India in Premier Lloyd George's Cabinet, is the firs
Hindu to hold such a position in the British Government. The appointment
made him a member of the British made him a m
House of Lords.

## As an apparent result of the war Britain's universities are overcrowded with undergraduates, who are devoting themselves to the study of science and moderns, the time-honored

 almost deserted.The Mail and Empire's Tribute to The following from The Mail and Empire, a polical oppo ent, is one of the sincerest tributes yet published to the
memory of a man who, as has been said, had "many political enemies but not a "In Parliament the subject of Sir Wiffid Laurier's death will not be exhausted by eulogies or resolutions
of sympathy. The warmer these tributes the case for further action by Parliament.
Sir Wilfrid Laurier, like Sir John Macthe case for further action by Parliament. donald, was personally incorruptible.
Whoever else made fortunes out of $\begin{aligned} & \text { donald, was } \\ & \text { Whoever else } \\ & \text { personally incorruptible. } \\ & \text { made fortunes out of }\end{aligned}$
politics these two leaders both of whom politics these two leaders, both of whom
could have commanded wealth hadd they could have commanded wealth had they
given themselves up to private busines as they did to public affairs, died poor as they was never the smallest danger of a
There was of public money going wrongly
penny penny of public money going wrongly
into their pockets. They made sacrifices into their pockets. They made sacrifices
while others made millions."
And again: "If there is any pure goid or And again: "If there is any pure public man the people are sure to catch the flash of it, through they may not
be able to explain why they yield to attraction. It was so largely in the case
of Sir Wilfrid's influence. It would attraction. It was so largely in the case
of Sir Wilfiri's influence. It would
take the pen of a Pater to single out and turn the light upon the trait or sum of traits that was at once the Laurier mastery and mystery. We should not noble aims or that there are achieve nonts standing to his credit. But as
much might be said of some men who
mut ments standing to his cradit. But as
much might baid of some men who
never touched the imagination or the never touched the imagination or the
affections of great masses of the people
as I Iurier did. Had Sir Wilfrid taken as Laurier did. Had Sir Wilfrid taken have still brought him into communication
with thic people, he might have had main tures. Had he been a preacher
${ }^{6}$ Weet $A$

## แome. .

 personal enemy."
## joy that seekest me through pain, I cannot close my heart to Thee; trace the rainbow through the rain, And feel the promise is not vain

There is a story told of one of our
soldiers,- a patient in a "gas ward,"the transport and in camp by his singing the singing of the hymns his book was the cruel gas had destroyed his though went to him and said tenderly: "Lad, I don't know what I would have done if you
hadn't helped us out on the singing this eyes changed to triumph as he whispered: again, but I'tl always have the singing in I thought of that victorious gladness of that helpless sufferer (the woman moving, too though. Her lips were above a whisper and could not hold the was singing in her soul, and the look of Though we are mute when others $\sin$. Do you ever feel a little disappointed because your life seems commonplace "great" things which others are doing; "small" duties that you feel it is impossibl o attempt anything beyond "the trivia
round, the common task."
gladness singing in the souls of those who
are triumphant over pain; but there
doesn't seem to be anything glorious in your life. The command to "take up or you haven't any troubles big enoug
o dignify with the great name of Yet you can be one of Christ's happy warriors, waiking with inm every day of the greatest gifts anyone can offer to
his comrades. We know how the brave determination to "keep smiling" helped prison-camps: and the cheerful faces hose maimed and blinded heroes still Smith said: "I have gout, asthma, and very well." It is possible for the man himself to be very well, even when the
house he lives in (the body) is badly injured. "Thine is the power Every day we say: "Thine is the power,
and the glory." Let us believe the truth ictor, the Man who showed the glory of humanity when stripped of all earthly offers Himself-in all His power and lory - to be our Companion and Friend toriously because they drew constantly n His strength; and He is ready to supply You may think that your life is common and ordinary. Was the daily life of he Carpenter of Nazareth commonplace, vood? He was bringing heaven down o earth when His hands were hardene
like the hands of other laboring men and now He has lifted earth to heaven King while we wash His clothes or culti-


\author{ <br><br>f }


equal surcess. Had he been a preacher,
a novelist, an actor or a savant, his
"silver tonguc, " his "sunny ways," his
playful wit, his grace, his subtlety would
surely have struck a popular chord. We cannot think of any other statesman who might wear the robes of high eccles-
iastical office with more dignity and also with more benignity. He would have combined some of the statelines of Catesby, the prelate of Disraeli's "Loth-
air," and much of the sweetness of the good Bishop in Victor Hugo's "Les
Miserables." He might have had great fame on the stage." -All this: And yet the man chose oo devote for service to the people of any country. Sir Wilfrid lived and died a comparativegreater riches of the love of a great nation.
In the end-which is the truest index of the life of a man-it became clear that
he "held the hearts even of many whose votes he had lo

## The Fashions.

## Fashion Notes

Almost anything "goes, in fashion his spring so long as the skirt is narro ver, considerably longer than during the eath year. Sleeves are long and may taste of the wearer
For suits the favorite materials ar serge, gabardine, and tricotine. For in vogue until the time of muslins and cotton crepe arrives. Georgette cre inling with crepe de cher, eller for ligs or frepe de chine and other shas, or for separate waists. Wash atin is also used for waists; also crep
de chine and the Habutai silks less, round-necked dresses, worn with a
necklace or string of beads are still in fashion, but with the coming of summe favor.
Among the colors in favor this season
or suits and dresses are navy and Foch blue, dust and, ,sand shades, light gray the brighter colors- henna ape sree jay blue, jade green, flag blue and rose for brighter ujes.
Hats are of all shapes and sizes, and hats, of silk, Georgette, etc. are in most favor for early spring. Much ribbon,
with flat bows, is used for trimming; also with flot bows, is used ior trimming; als
flat lowers and very small flowers. have moderately low or sensible Cuban or military heels. High Louis heels ar
now reserved almost entirely for pump and other evening shoes.

Note.- We cannot possibly supply
patterns of designs clipped from other patterns of designs clipped from other
papers. If you order a number of patterns and one or two arrive befor division is sometimes made unavoid-

When sending your orders for patterns to us, please cut out the picture of the
pattern you want and enclose it. Also cut out the following blank, fill it in care ment, Farmer's Advocate and Home
Magazine," London, Ont.

## Post Offic

County

Bust measure (if for waist or one-piece

Waist measure (if for skirt)
Age (if for child).
Number of pattern.
Date of issue in which pattern appeared
$\qquad$


FOUNDED 1866 Ladies' House Dress.
n 7 sizes: $34,36,38,40,42,44$
inches bust measure. Size 38
$61 / 4$ yards of 36 -inch watering
Ingle Nook
 one month in this
questions to appear.
Letter From N. B
onder if the following letter is a
some people.-We wonder

ours truly,
Joanna M. Hudson.


March 13, 1919
Some Pet Economies.
THIS is my economy book," said paste everything that gives any
hint about how to serve good nourishing meals at the least expense. I began it
long before the War, and ever since the cost of living began to shoot upwards, I've found it the greatest help. of living question!"' exclaimed Mrs. Werner. almost a nightmare to me. By the way by Mary Carolyn Davies? It's a parody can recite it. Oh, yes:-

The book of verses underneath the bough, might write for you, but, I fear, just now
The loaf of bread is quite beyond my ken-
cant cook-but, please like the anyhow.

The book of verses underneath the bough purse "I sympathize with 'him' all the time, I'm afraid, and I certainly sympathized
with 'her' all the time we had to use seem to manage them." "I think we ought 'There are so many million, she said in the world who are positively hungry every day, and will have to be so until the for not wasting a scrap of food is that someone, exactly as much as we to do without Miss Euston nodded approvingly, but "I cant see how you make that out, "It's really very simple," replied that 1 have to buy just so much to make "Oh, I see," said Mrs. Verner, slowly. Main. meats first. Meat always seems such
an expensive item. Here I have tabled nine ways in which I often make use of

## Shepherd's Pie. Croquettes, or Rissoles.



THE FARMER'S ADVOCATE




476
"What have you in the cupboard?"
asked Miss Euston, practically.
"Cho mixed savory herbs, sage, onion
juice, Worcester sauce, tomato catsup,
mushroom catsup, mint vinegar, paprika,
white and black pepper, celery salt,
nutmeg, cinnamon, cloves, ,emon extract,
almond extract, vanilla and several fruit
peels, which I prepare myself."
(To be continued.)

House Plants' Worst Enemies
PHIDS or plant-lice, red spiders and
mealy bugs are the three worst All suck the sap and weaken, or kill the plant. kill the aphids spray forcibly with soap-suds once a day for several days in
succession, Use any pure soap, half a bar to about 5 gallons soft water.
Several hours after been used spray with clear water to remove the dead lice and the soapy look
Tobacco water is also good. Prepared Tobacco water is also good. Prepared
tobacco may be bought from any seedsman, and the directions should be exactly
followed. If you have not a small spray pump, invert the plant in a large water, holding the soil back with the hand and moving the plant about until the leaves and stems are thoroughly
washed. If preferred the plants may be dusted powder.
The mealy bug infests especially the
coleus and fuchsia, and may be readily coleus and fuchsia, and may be readily
known, because it looks like a tiny tuft of white cotton batting.
apply a drop of alcoho

THE FARMER'S ADVOCATE.


Important Clearing Sale
$20 \begin{gathered}\text { Scotch- } \\ \text { Topped }\end{gathered}$ Shorthorns
Tuesday, March 18th, 1919
Cows with calves at foot, cows due at time of sale, heifers, bulls of breeding
age. Also stock bull, Vain Marquis, grandson of the great Gainford Marage. Also stock bull, Vain Marquis, grandson of the great Gainford Mar-
quis, Imp. Also 12 grade Durham steers and heifers rising 2 years old, 11 Leicester ewes.
TERMS: Cash, or 8 months' credit will be given on furnishing ap-
WM. J. ROGER, Prop., R. No. 1, MUNRO, ONTARIO WM. E. NAIRN, Auctione


## fir-tree oil with a wooden tooth-pick to

 Red spiders look like tiny specksof rust, and their attacks cause the leaves of plants to become yellowe the finally, to drop off. Forcible spraying sides of the leaves, will erndicat the under "Scale," which sometimes apen. the leaves and stems of ferns, rubber plants and palms, may be driven away by care fully washing the stems and leaves with
a small rag, scraping off each scale as one
comes to it All of these as often as necessary. A vigilant wiven should always be kept upon house
plants in winter to plants in winter to ensure that no pest
can too much start before treatment

Dried Fish Made Delicious $\int_{\text {MOKED }}^{\text {MOL }}$ dricious-if properly cooked, and will be especially relished for break Dried red herrings, bloaters and cisco need only to be well cleaned, then scalded and served piping hot very hot over meat may be diced, covered with th whe or tomato sauce and served very hot with hot baked potatoes halibut should ale, smoked salmon and water, which is brought to put on in col and drained off before the fish is used Afterwards the fish should be boiled in fresh water and finally drained and
served with white sauce served with white sauce over which
hard-boiled egg, chopped fine, may be sprinkled, or chopped parsley. Finnan haddie may also be broiled and eaten, when frizzling hot, with curried rice of Salt codfish and mackerel must be soaked over night, but no longer. Drain, with plain white sauce or egg-sauce.
with with plain white sauce or egg-sauce.
If the fish has been shredded serve on toast or over hot split biscuits. as forlows: Boil the soaked fish a fer minutes in fresh water. Meanwhile fry some diced sat pork until crisp. Take
out the pork and put in the fish, drained
and chopped. Cook for a moment or tro and chopped. Cook for a moment or two
in the fat. stirring all the time. Add gradually in cup milk, season with paprika, stit
in the pork and stir until thick and creamy. Serve on toast, sprinkling the
top with finely chopped parsley if you have it. Salt mackel is nice baked in milk for breakfast. Previously it should, of
course, be soaked and drained. Or it course, be soaked and drained. Or it
may be boiled, drained and served with
highly siced righly spiced vinegar

The Fine Art of CoffeeMaking.
$\square \begin{aligned} & \mathrm{HE} \text { three requisites for good coffee } \\ & \text { are freshly boiled water, freshly }\end{aligned}$ ground coffee, and a perfectly clean a pinch,but the real connoisseur in coffee making prefers to own a little coffee-
mill, buy the coffee beans and grind them mill, buy the
when needed.
Of course it is nice to have a percolator, but if one hasn't there is no need for
lespair; a good granite coffee-pot will despair; a good granite coffee-pot will Here are two methods. Try both and you like best.

1. Tie the required amount of coffee oosely in a bit of cheesecloth. Put it in the pot and pour over it water that
has just begun to boil hard, being sure that there is exactly the amount of water required. Cork the spout and
draw the pot to the back of the stove oil. Leave for 10 minutes then serve with rich cream and sugar and put into the pee in the cheesecloth quantity of cold water. Let come to a oil and boil hard for 5 minutes, then ase, an egg, or egrg-shells, may be added o assist in clarifying. Many good coffee-makers put jus
pinch of salt in the coffee-pot. Th rench, when roasting the beans, add a
bit of butter the size of a nut and a dessertspoonful of powdered sugar to are then roasted as usual in a moderate


## Wheat Yield was Increased Four Times <br> (10acres) and measured from the machine 547 bushels, a pretty good yield and a good sample."-Writes A. L. Hod- gins. Ettrick, Ont. Unfertilized wheat from a do you want measured test plot yielded only 12.5 bushels per acre, a gain of 42.2 bushels per acre for fertilizers. "Results of fertilizing are 4-to-1 in favor ot fertilizers." So says 'Mr. Jas. Peters, Mt.

G
OOD tillage, good seed and abundant use of high grade fertilizers make crop yields highly profitable, and grass "catches" sure.

## Fertilizers Hasten the Ripening of Crops

## Farmers say

"We were husking two week before any of our neighbors
could husk, who did not fertilize. Our corn matured well and we are selling for seed."-E.
Keliy, Watseka, Ill., 1918 . sample from fertilized was ver sample from fertilized was very
much heavier than the unfertil
ized, and we ized, and we eut it 7 day
sooner. It went at least 15 bus more per acre." -I. WYLIE,

Fertilizers improve the quality of the crop too. Analyzing and comparing fertilized and unfertilized wheat, Ohio Experiment Station
found that the unfertilized grain analyzed $49 \%$ plump and $51 \%$ shrivelled, while grain from the fertilized plot analyzed $94 \%$ plump and $6 \%$ shrivelled. Minnesota Experiment Station reports that
fertilized oats had a higher per cent of protein than unfertilized oats.

Feed your young crop readily digestible plant food and so benefit

## It Pays to Fertilize

The Soil and Crop Improvement Bureau 111 Temple Buildin

## Pburuls <br> Stone Brands Never Fail <br> To Increase Your Crops. <br> WMSTONE SONSIMHEWOODSTock ONT


then, with what may have been intended
"Ah'll be fair complimented, sir," he
said, adding "gin yell tell me ma bit
job job,"
The Schoolmaster gave his hand a "I'lll drop in to see you on a week
day," he replied. "There's much that you can do, Jock, As for the rest of us,
we've been all over slow, I fear. Already they're beginming to drill'
-"Yes, to drill, in many plac for the sake of the rifle practice, pigeon and turkey matches are becoming very
popular. Don't sav no if you are invited popular. Dont say no if you are invited Corners before long. As for the drilling, is just the place.-A bit of irony that,
isn't it?-that. The Block should he the very rampart for a movement against the very condition that made it possible
Ha! Ha! In short, I've bee thinking it all out on the way, and
have decided that we may assemble there next Tuesday night. What do you
say?",
To that neither Jock nor I made objection, and then The Schoolmaster
turned to me. undertake to drill the men?" he asked. "I am quite sure he would object,"
replied I. "He's not in sympathy, you The. Schoolmaster nodded. "I know,
he said drawing down his brows "IT, he said, drawing down his brows. "I'm
sorryy He would do much better than I But I'll do the best I can. I had some
practice, you know in the old Country, Well, I must be goiny.
Red Jock hastened to untie his horse.
"Ye'll be fer askin' the rest the noo Ah doot?" he queried;
"Not to-day, Jock,", said The School-
master. I 've a sort of feeling Day of Rest-- But to-morrow.
"Ah'm no what ye may dub releegious,'
he said, "but Ah've a sort o' ${ }^{\text {a }}$ suspeecion he said, "but Ah've a sort o' suspeecion
aboot the Sabbath.- Weel, ye may depend abot the Sabbath- - eeel, ye may depend
on's, sir. An'Ah'll be luikin' tae see ye sune, sir, tae tell me aboot ma bit job.-
Amang us a' we'll doon the autocracy (he called it "ottocrassy") yet, Ah doot." Schoolmaster, and, touching his hat with his whip, he rode away
$\qquad$ the manners o' a gentleman, and yet wi' a hert that feels fer the buddies
wha hae na a manner at á . Dud ye see the touch o' the hat, Alan?---juist
as if we wis fine buddies comin' frae hobnobbin' wi' the fine Towk I the toon!- Weel he'll no lose ony-
thing by 't, an' ah doot if it comes tae him leadin' up a company o' men they'll
gang aifter him gin he chooses tae tak'
them tat
 we'll hae a bite supper."
$\qquad$ room behind the shop and of the little
roatched
him while he fried bacon and egrs in royal quantity, and produced jam from
the cupboard, and bread which he cut the cupboard, and bread which he cut
into chunks big enough for Finn McCool.
fit in tae sic a roxpec bit hoose as this,"
he said. "She's aye a dainty bit. But

## by, things 'll be mair fit $i$ ' the widerness."

deeference wi' Eleezabeth," he added,
"but Ah've a feelin' that a mon shoudna
$\qquad$
$\qquad$ that mayhap whan the greetin's by fer
him that gaed awa' an' whan the bairnies

$\qquad$
$\qquad$ turn awa.' It's a fule dream, Alan, Ah doot.
But it keeps me forgin' ave a bit $0^{\prime}$ ' soull's
 When Jock had ended I went to him and
held out my hand. He caught it in his

Founded 1866

Disappearance th, 1837. and I do not se that $I$ am
ing that I
I fear that
sometimes
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seen since, nor ha
come back th
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stayed
stayed
has never
reached


March 13,1919
them, and of those whom we met on the
highway. At nights only did we return, hoping for fort to mount to madness in my
bade and might have, had it not been for a word of hope that came to me.
On my return after, one of the day all track of time-someone told me that Old Meg had been looking for me, and wished to speak with me immediately.
With a bounding of hope within me how we snatch at straws, we poor mortals me past her looms to the little back
where she lives. Strangely enough, I can remember before is lost in a nightmare confused hurrying forms in homespun. Placing a candle on the table, she sat down also, and at the first face I was conscious of two impressions countenance, and-oddly enough at that moment- that she must have been
fine-looking woman in her day. Ill Alan? Eh?'' she asked, looking at me Then, before I could answer. "Listen to Barry may be dead.-I do not." And I went to her and snatched her hands in mine. you know where she is, tell me!
"Sit down". she said, "gand hear me I do not know, Alan; I only surmise.
Answer me and help me to know that surmise correctly. - Now" - leaning towards me, and speaking very slowly,
"answer me this: Do you think Barry had any reason for staying longer with Nick "Why-no," I stammered, "except hat one expects a daughter to stay with She laughed a little. "Does Barry seem to you, then,", she To that I could make emphatic rejoinder. "No. She is surely not spirit
of his spirit, though she may be blood of his noodded. "Aye. - Often enough She nodded. "Aye. - Often enough parents. In that you speak well, Alan
fometimes there are swans where there should be ducklings, and ducklings where here should be swans. It's something think for the most part heredity proves lings and swans, swans.-But, Alan, I started, but held my head the higher Again she laughed. Honi soit qui mal y pense.'-What you say if I tell you that she was not the
daughter of Mistress Deveril either?" "No?" I said. "But why are you play ng with me !ike this? What I want "And I must tell you that I do not will you? Now answer me: If Barry is Deving - never was anything-to the
Deverils, save a child left with money ould now have any reason for staying Then the light burst upon me, and
wondered that it had not come sooner "Especially since the woman from
uffalo is proving so-capable," on Meg, smiling. Barry has just-left home?" " I sprang up. "But where would hope all sinieing in my breast. "Why did she lenve hy-" Mes; interrupted again.
But
"He added quictly-"everything but the little beaded moucasins and the silhouette picture And then I sat down again, speech
paralyzed, but brain alive with a hundred

Meg was going on, still in the same
$\mathrm{Y}^{\mathrm{OU} \text { can have the finest of cljver, and your corn will grow as }}$ devoted to the growing of such crops.
All crops prefer sweet soin. But corn and clover are decisive in their
king-they refuse to do their best growing on sour soil.
There is much soil in Canada that would be the better for treat-ment-and the one great sweetener for it is limestone. So many farmers
are aware of this important fact, that we find a ready market awaiting our new product.

$\qquad$ the Niagara Peninsula found his soil so sour that neighbors ac
tually joked about his attempt't aise clover on some parts of it He tried a liberal application of limestone-and now grows finest
clover where formerly he secuted short sickly crops. From year to year now, this big dairy farm is given liberal applications
limestone. Thousands of other farmers can use it to equal advantage wherever there is sour vant.
soil.


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To get the best results - your horses should have the best equip ment. There is nothing better made than Carson's farm harness. It is
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combat with every extra demand, as well as your regular farm work. Ask your dealer
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CARSON'S FARM HARNESS


poor body. Well, as I was about to
say, one day she told me hat Barry a strangeling, and that someone wa left money to pay for the care of her Further than that she said nothing reticence had become a habit with her,
I think,--but that is enough to I think,--but that is enough to explain
Barry's disappearance, don't you think? especially now that she is no longer needed "But did Barry know?" I asked. Again Még gave her quick nod of
ffirmation. "I asked Nick Deveril straight, last
night," she said, "if Barry knew, said he had told her, a few days before 1 suspect he was out of temper and hurled it at her, poor child. He's stupid enough, in some ways, barring his passion
for money, but he has a temper or or money, but he has a temper o! his own,
too, that flares out if anyone or sses him And I don't think he ever liked Barry.
He knew she was too good for that house.
All this I heard, but my mind was in All this I heard, but my mind was in
a maze, my thoughts hurrying round and a maze, my thoughts hurrying round and
round, without ever seeming to get any""But why," I said, "did she go away without speaking a word of it to any of us? Surely that wain't necessary?" That I can't tell you, she said 'Prob. ably Barry had her own reasons."
persisted, except those she was wearing? To that a little frown of perplexity came on Meg's countenance. "That's the only puzzle, she sald. I confess little too. It may - be that-that an accident has happened. Yet-yes, Alan -I feel it, that Barry is alive and well
somewhere, knowing perfectly just why somewhere, knowing perfectly just why he did as she has over that think it ever occurred to her that the people
here would be so troubled. She was almost too modest, was Barry

Again we sat in silence, conjectures crowding upon me and wonderings. Had Barry run away from me? Where of us, presently?-All this broken upon by the horrible fear that after all, Meg might be mistaken. And then, in the very midst of my agony-so strange is the
human mind-I marvelled at the bearing human mind-l marvelled at the bearing
of this woman who talked with me, and at the manner of her speech.
That night I went home pondering much the things I had heard, and imagining one course and another that Barry might have taken; and into every device
entered, persistently, sometimes exentered, persistently, sometimes beaded
traneously, a vision of the little moccasins. I would be picturing Barry, perhaps in some town or city, making her own fight for the sort of life which she had said she sometimes longed for--a life of high in a gown of flowered silk tripping through glittering halls, when suddenly the picture nothing but two little slippers of buckskin and beads.-And perhaps it was this persisten
the Indians.
Thenceforth for days and days 1 rode here and thear but of Barry I could which I not a word, nor of Wabadick, except that he and his squaw and papooses back," return home, keen with the hope that our missing one might have returned, only to have my hea
Through all the days my father wrestled alone with the Comin still me one evening my sorrow lifted enough to let me think of him, for the tempera ture had lowered suddenly and there way promise of wet days that wo. My heart or injure the out-lying crops. My he had
burned with gratitude to him that he burned with gratitude to stay, and I was never once ask
sorry for him, for the loss of a goodly part of the harvest is, in this hard new counthin no small matter. But when 1 came wields, sight of the little farm I saw, to my throat, a sight that brought aeful lump. Not but a kind left standing; there were new stacks by the little barn, all covered a
ready for the threshing; while from the fields two or three loaded wagons wing, being driven slowly in, me
with forks on their shoulders.

Clearing Auction Sale of

## R...P. Ayrshires

Comprising the entire herd of J. W. WATERS \& SONS, at their farm, $1 / 4$ mite from MOOREFIELD, G. T. R., north of Guelph, on
Wednesday, March 26th, 1919
Most of the cows will be fresh in March
and April, and Ayrshire breeders will find this a good opportunity to get some choice stock at their own price, as everything will TERMS: Cash, or time will be given up to 8 months, at $6 \%$ per annum, on bankable paper. from a distance. G. H. DICKSON, Moorefield W. C. LAUGHRAN R. R. HAMBLY, Drayton Auctioneers Moorefield, Clerk of Sale For particulars, write the owner
J. W. WATERS, Moorefield, Ont.

## 

## Brandon, April 3rd and 4th

 It is a well-known fact that good Shorthorns have been bred in Wester splendid herds, producing outstanding individuals from the choicest blends of Scotch Shorthorn blood. Great sires and females have been importedand countless new herds have been developed, and from these herds a surplus and countless new herds have been developed, and from these herds a surplus
is produced each year of a yuality to appeal strongly to those men who know good Shorthorns, and good Shorthorn pedigrees, when they see them.
This saie is the first of its kind ever promoted in Canada. It is being held under the direct auspices of the Shorthorn Breeders' Association of Manitoba, Saskatchewan and Alberta, and the executives of these powerful organizations are very desirous of making thi
day in the annals of Shorthorndom in Canada.
To ensure the buyers a real treat, the Association decided to select the stock for this great sale, and the secretaries of each association-all of whom are outstanding judges of Shorthorns and Shorthorn breeding-were elected
to select the bulls and females which will pass through the sale-ring.

## APRIL 3rd and 4th

The best herds of Western Canada have been drawn on, and only the best from these herds will be seen at Brandon. Not only are the animals of high rich additions to any herd. Among the families represented are: ROSEBUD, DAIRYMAID, AUGUSTA, CLARET, LAVENDER, NON-
PAREIL, MISS RAMSDEN, URY, MATCHLESS, STRATHALLEN, PAREIL, MISS RAMSDEN, URY, MATCHLESS, STRATHALLEN,
ROSE OF AUTUMN AND ISABEILA. Among the sires represented are the following: SHENLEY ADONIS $=79315=(107033)$, LAVENDER LAD $=104417-$, FANCY. LORD $=100220=$, SHENLEY SUNBEAM $=97475=$, BROADMIND $=73732=$, OAKLAND STAR $=80312=$, BROWNDALE $=80112=$, COMET LAVEN
DER $=100569=$, SCOTCH THISTLE $=72489=$, MARGRAVE $=78524=$ $\mathrm{DER}=100569=$, SCOTCH THISTLE $=72489=$, MARGRAVE $=78524=$,
FMMA'S PRINCE $=95099=$, LEADER (Imp.) $=110939=$, and GAIN. EMMA'S PRINCE
FORD MARQUIS
The bulls and females will not come before the buyers in excessive fit but will be seen in good smooth condition. On April 3rd, they will be judged nd on April 4th every animat will of the Dominion Shorthorn Association, More than 125 head will pass through the sale-ring, and of that number he majority are cows and heifers, and the beginner will have a wonderful opportunity of selecting foundation stock that he knows is right.
For further information write to the Provincial Breed Secretaries:
J. B. DAVIDSON, Sec'y, Manitoba
Shorthorn Association, Myrtle, Man. E. MEYER, Sac'y, Alberta Shorthorn Association



## ENGINES

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## ETRTR

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 KEITH \& SONS NG ST. E.TORONTO
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J. J. Necrene, M.P.







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For Building and Repair Jobs on the Farm FIREPROOF-DURABLE-ECONOMICAL


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Price per square, $\$ 8.50$. See note at bottom re freight allowance

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of Heavy Gauge Galvanized Iron



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This bowl will wor
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height desired as it is
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not controlled by a
float valve. Suited
for either overhead or
for either overhead or
underground supp'y

will draw off the foul air an
keep the bern" keep the barn cool and sani-
tary. Height over all 10 ft Diameter 24 in. Base 30 in . Price, $\$ 33.00$.

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Have a separate building for your motor car or tractor We furnish portable buildings in any style or design for the
safe keeping of valuable farm machinery. The building shown above, with metal
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can erect this building in 3 hours' time.

| ACORN HOG TROUGHS |
| :--- | :--- | :--- |

THE METAL SHINGLE \& SIDING CO., Limited

PRESTON (Head Office

TORONTO
MONTREAL
40 Abell St.
86 De Lorimier Ave.

## Standard Bank of Cánada

The Forty-Fourth Annual Meeting of the Shareholders of The Standard Bank
held at the Head Office, 15 King Street West, on Wednesday, the 26 th inst. A was held at the Head Office, 15 King Str
large number of Shareholders was present
large number or whe occupied by the President, Mr. Wellineton Francis, K.C., and Mr. E. A. Boz, Chief Inspector, acted as Secretary to the Meeting and read the following report
of the presenting the Forty-Fourth Annual Report and Statement of the affairs stating that the results for that period have been satisfactory
bad and doubtful debts amount to $\$ 697,443.71$, after provision has been made for Provincial taxes, and cost of management. This amount, added to the balance of Profit and Loss Account, $\$ 175,215.82$, brought forward from last year, together with $\$ 46,710$ for premium on new stock issued, makes the sum

- This has been appropriated

Four quarterly dividends at the rate of $13 \%$ per annum
Contributed to Officers' Pension Fund
Contributed to Patriotic and Kindred Funds.
War Tax on Bank Note Circulation to 31st Dec., 1918
Premiam on new stoc
Reduction of Bank Premises' Account
Your Directors record with deep regret the death, in October last, of our late President, Mr. William F..Cowan, who had been closely associated with this Bank to 1883, and President from 1883 to 1918 . The valuable services rendered by Mr. to 1883 , and President from 1883 to 1918. The valuable services rendered by Mr. of the Bank. The vacancy caused by Mr. Cowan's death has been filled by the 1902, holding the office of Vice-President since 1913.

Mr. Herbert Langlois has been elected Vice-President
During the year Branches and Sub-Branches
Alta. Bon Accord Alta. Coaldele Alta. Parkland, Alta. Raymoned at Bindloss Alta. (sub. to New Dayton); Wayne, Alta.; Paynton, Sask. (sub) to Maidstone); Gray, Sask. (sub. to Regina); Ashern, Man. (sub. to Eriksdale); Eriksdale, Man.; and Goodwood, Ont. (sub. to Stoutf ville).
The Branch at Paisley, Ont., was closed

The usual inspection of the Head Office and Branches has been made, and the duties of the staff have been faithfully and efficiently performed.
The regular audit of the Bank's affairs has been made by Mr. G. T. Clarkson, C.A., and his report is appended herewith. Mr. Clarkson's name will be again submitted at the Annual Meeting for re-appointment as Auditor for the ensuing year.
Toronto, 31st January, 1919.
WELLINGTON FRANCIS, President. GENERAL STATEMENT-31st January, 1919-LIABILITIES Notes of the Bank in circulation ............................897,858.00
 Deposits not bearing interest $23,405,862.81$ Dividend No. 113, payable 1st February, 1919
Former dividends Balance due to $\qquad$
Acceptances und
Capital paid up
Reserver ..... 272,259.17Balance of Profit and Loss Account carried forward
Current coin held by Ban
Dominion Notes held
Deposits in the Central Gold Reserves $\quad 10,812,621.00$
$3,500,000$Cheques of other Banks$362,061.00$
$2,597,090.27$
Balances due by Banks and Banking Correspondent
Dominion and Provincial521486.89
anadian Municip ..... 8,473,705.37
exceeding market ..... 857,273.01
an and soort not execams litry daysOther Current Loans and disReal Estate other than Bank Premises
Overdue Debts,

$\begin{array}{r}74,699.92 \\ \hline\end{array}$Bank Premises, at not more than cost, less amounts written of
Deposits with the Minister for the purposes of the Circulation Fund
Other Assets not included
W. FRANCIS, President. C. H. EASSON, Ge
AUDITOR'S REPORT TO THE SHAREHOLDE
chief office of Tts branches, and after checking the cash and verifving the securities at fed froloffice and certain of the principal branches on January 31st, 1919 , I certify
my opinicn, such Balance Shetet exhibits a true and correct vicw of the state
Bank's affairs according to the best of my intormation the
me, and as shown by the books of the Bank.
In addition to the examination the explanations git
ffice and certain of
ctions of the Bank which have come
G. T. CLARKSON, F.C
(
$\qquad$
$\qquad$1,227,161.45$\begin{array}{r}\text { 227,326.90 } \\ \$ 83,656,865.30 \\ \hline\end{array}$

## SARNIA POULIRYY HACK



SARNIA FENCE COMPANY, Limited Sarnia, Ontar

90,


$\begin{array}{r}346,555.65 \\ 175,000.00 \\ \hline\end{array}$
$\qquad$
$\frac{\text { Manarer }}{}$



THIS WASHER MUST PAY FOR ITSELF


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 Tooont


For Maple Syrup and Sugar




Grimm Ghampion Outfit


doee the rest. Rut ac chimm Champion

The Grimm Manufacturing $\mathrm{C}_{\mathrm{O}}$. 40 Wellington
MONTREAL


## Farming as a Business.

 Editor "The Farmer's Advocate": A farm survey conducted a short timeago by the Ontario Agricultural College at Guelph, proved that farming on a small scale was generally unprofitable. A similar survey in Ohio has shown the same result. The following are a few reasons why small farming does not pay well: It has been estimated that it
takes the product of five acres to keep a horse a year, and farm horses are used horse a year, and intle in winter. In the case of the one-man farm the horses are idle much of the summer ather work to do, especially at threshing and silo-filling time. The labor-saving implements, and what is kept is not used as much as it could be. For example, a grain binder on a sman
farm could do three times as much cutting as it has to do
If small farming is not generally a paying proposition, what is the remedy use under all circumstances, but for dis-
cussion we will take a special case. Supcussion we will take a special case. Sup-
pose a half dozen level farms of rich soil, pose a half dozen level farms of rich soil,
all situated close together, are owned by progressive farmers who are willing to co-operate. They may co-operate plete way is to form a company. Almost all other paying enterprises are managed by corporations. In the first place, each farmer would reserve his garden, poultry awn use. All the rest of his farm property would be valued and become a part of the company's property for a term of
years agreed upon. The profits of the years agreed upon. The profits of the
company would be divided according to the value of each man's property. A among themselves, care being taken that the most capable man was chosen. Tractors would take the place of horses
as far as possible. It has been proven that tractors, provided they are kept busy, work more economically than and tractor can be kept busy nearly all the time during spring, summer and fall.
By having so much land to work under one manager it would be possible to remove most of the cross fences, thus making the fields large. Every suitable
form of farm machinery that they did not possess would be purchased.
company's cows would be kept in one or
two stables and milked by milking machines. The stables on the other farms In the fall the threshing would be done by a small-sized threshing outfit driven all the buying and selling, including the shipping of its own live stock and the
buying of household supplies. wages and the profits would probably divided each spring, as that is the time of year when the farm products have been pretty well disposed of. If the company seven per cent. or more on the capital after paying wages and all other expenses,
it would be considered a success. If the average rate of dividend were less than sidered a failure. The amount of the
sider dividend in any one year might be
deceptive on account of crops being poorer or better than the average and The company scheme may not be prac-
tical in many districts on account of locat Conditions, or the reluctance of the
farmers to co-operate. However, some of the suggestions could be used to
advantage almost anywhere. But there are other farm losses that
are not due to lack of co-operation.-
Iens that fail to lay in winter when Hens that fail to lay in winter when th
price of eggs is highest. Cows that ar for a long time in winter when the

## Spoiled Cakes Cost Money

Flour, eggs, milk, butter and sugar are high in price. A spoiled cake or batch of biscuits costs money.

To make sure of baking success use pure, strong, double-acting

## EGG-0 Baking Powder

The heavy Government Standard flours need the strength of Egg-O to make a light baking. Egg-O has two actions. It rises in the mixing bowl when cold water or milk is added and continues to rise in the heat of the oven, thus making a light cake doubly certain.

You can use sweet milk, sour milk, buttermilk or water with Egg-O-a different and better baking powder
Egg-0 Baking Powder Co.
Limited
Hamilton, Canada


THE MENIE DISTRICT AYRSHIRE BREEDERS' CLUB
Registered Ayrshire Cattle
at Windsor Hotel Stables, Campbellford,
THURSDAY, APRIL 3rd, 1919
The sale consists of 40 females and 10 males; 25 of the females due to Hillside Peter Pan, White Duke of Springbank, Lochinvar, Oakland Prince Imperial, Auchenbrain Hercules, Maple Crest King, Springhill Cashier and R.OP records Some of themg. In errering are cows with creditable backed by R.O.P. ancestors, some of which run over $10,000 \mathrm{lbs}$. milk in a

Alex. Hume, Sales Manager, Campbellford, Ontario or W. E. Tummin, Crookston, Sec'y and Clerk of Sale.
C. U. Clancy, Auctioneer

## 150 Head Well-Bred Stock

JACKSON,
Monday, March 17th, 1919
Forty Durham and Holstein, new milkers and springers,
Forty sows and pigs.

REGISTERED O. A. C. No. 72 OATS
hieads inspected by the Government before leaving my granary. Germination test $99 \%$. Price 11.50
par bus. Bass free. Liberal discond
W. B. FERGUSo
When writing advertisers will you kindly mention The Farmer's Advocate.

FOUNDED 1860

## Cakes ney

- and sugar are e or bátch of bis-
success use pure,
0


## wder

ard flours need the
aking. Egg-O has aking. Egg-O has
ag bowl when cold


BREEDERS' CLUB

## ire Cattle

ampbellford
3rd, 1919
es; 25 of the females due to Lochinvar, Oakland Prince King, Springhill Cashier and terial. Every bull offered is a over $10,000 \mathrm{lbs}$. milk in a
bellford, Ontario a and Clerk of Sale.

## of

 3red Stockell for C. F. Jackson,
th, 1919
(some matched teams): :w mikeres and sprigerser ion od condition

## Io. 72 OATS

 2. No. 2, strathrox, ontano

March 13, 1919
THE FARMER'S ADVOCATE.
mplements on farms. Most farmers try 0 keep everything in their mind without by so doing, it is possible for a farmer to make less than his hired man for everal years without realizing the fact. A little wasteful management soon eats up the profits in any business and where to escape notice.
Ontario Co., Ont. N. M.
Note.-While we believe in co-operation, we doubt if the farmers of any one district wos to a manager and they themselves work as hired men. It would be osing that independence so dear to every man. True, under good management and the organizing of stock and implements, the net returns from the respective arms might be greatly increased. Better are of implements, planning a crop system best suitable to the farm, weeding ut unprofitable animals, inaugurating a hat each and every department of the arm work was returning, are steps which on the individual farms.-Editor.

## Gossip.

Waverley Stock Farm's Dispersion. Horsemen generally are acquainted with Waverley Stock Farm, and its Bowmanville, Ont., is known from one nd of Canada to the other. This acquaintance makes it easy to announce the on Thursday, March 20, when the entire stud of forty registered, imported and Canadian-bred Clydesdales and Hackneys will be passed through the sale ring. Baron's Best, the Highland Agricutural Pide, will be sold under the hammer: so some good sons of Baron's Best. he Clydesdale offering comprises a long ist of imported and Canadian-bred mares in foal, as well as colts and fillies from partment there will be led out Terringon Ceteways Imp., also Mainspring 72i, great son of "Terrington". Horsemen will be in a position to purchase at this sale imported prize-winning mares in mported stock. Write the proprietor and get full details regarding the sale and Met full

The Elder Sale of Shorthorns. Elsewhere in this issue John Elder of erd of pure-bred Shorthorns for public sale on Wednesday, March 19. The sale is a forced one as Mr. Elder has sold is farm and the forty head advertised that have been profitable and of just the rt that would make splendid foust the material for the beginning of new herds.he families are mostly all a cross of ing cows being "English" and breedmilkers. We are speaking and splendid dder and more mature cows many of hilked have, so Mr. Elder informed us, milked upwards of 55 lbs . of milk per day ntwice a day milking. The younger these good milkingdams herd are all from by the former noted herd sire Scotch Grey. This bull was from an imported English Lady cow and got by Golden mir. He was used in the herd for young cows by him which are now more catalogued will be a big feature of the ale. On these Mr "Elder has been Crown Jewel 42 nd This bull bred sire, the noted sire, Best Boy, and will be remembered as the top priced calf in number of bulls also listed by this sire a half-dozen of which are ready for heavy now nearing twelve months. will be found in a real healthy bree ${ }^{-1}$ ing to all who purchase on sale day asset score or more of letters from satisfied customers Mr. Elder has received satisfied past year include breeders from as far
west as Vancouver Island as well as
severa several from the eastern provinces and in has been well received. For catfering address John Eld five. Hensall, Ont.

## SEEDS

We pay the freight on all orders o
$\$ 25.00$ or over east of Manitoba.
GOVERNMENT STANDARD
No 1.1 Red Cloper.
No.
Ned
Red Clover:


## PAYS WELL THESE DAYS

We pay express and supply cans.
Ship your cream to
LINDSAY CREAMERY LIMITED
LINDSAY, ONTARIO

## CREAM


 No. 1 Alfalfa (Northern Grown)....... 17.00
White Blossom Sweet Clover
Mixed Timothy and Alsike, 810.50 Terms: Cash with order. Bags extra,
at 65. each. Ask for samples
sary. We guarantee seeds satisfactoreo ats. Wach. Ask for samples fir necep
sary. We garantee seeds satisfactory or
return at our expense.

The Gangs are flexibly mounted on the the ends of the Arch and readily conform to uneven surfaces of the ground. Onie end of either Gang may rise to pass an obstruction while the balance of the Harrow remains at work.
The Angle of the Gangs is readily controlled by a single, easily-operated, Lever.
It is strongly built so as to stand the severest strain of discing, and give long service

The No. 8 has Twelve, Fourteen or Sixteen 16-in. Discs, and the No. 9 has Twelve, Fourteen or Sixteen 18 -in. Discs. See one at the nearest Massey-Harris Agency MASSEY-HARRIS CO., LIMITED Head Offices-Toronto, Ont.

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Montreal, Moncton, Winnipeg, Regina, Saskatoon, Swift Current
Yorkton, Calgary, Edmonton. Transfer Houses-Vancouver and Kamloops,
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Agencies Everywhere

TODD \& COOK Stouffillie


SEED CORN Inaure your 1919 corn



Strawberry Plants

 port burweli. walker Seeds


Pure Seed Grain


FOR SAL

## 

 FOR SALE - SEED COR Holsteins will Sell at Ingersoll




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BISSELL Double Action Harrows will thoroughly cultivati (1)

We have doubled our factory capacity and are determined to
idge-poles,
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ridge-pole,
unable to
"A guy is
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I noticed
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"Well yo
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It seemed
Jim win
Jutter "ch
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March 13, 1919
The Camper of Maniwek.
by ralf ranger.
Things had been going pretty much as usual until he arrived. Our little summer colony on Lake Maniwek-which
is "somewhere in Ontariq"-had pursued is "somewhere in On taris way until that the even tenor of its way . Claude ${ }^{\text {memerkins into our midst. }}$
Perkins into our midst.
Lake Maniwek is decidedly off the Lake Maniwek is decidedy of the
beaten track, a fact which renders our beaten track, a somewhat exclusive, and
little colony som makes the arrival of J. Claude Perkins all the more remarkable.
When we first sighted Mr. Perkins he was sitting on a steamer trunk in the little clearing on Fox Point, surrounded
by bundles, bales and packages of as. by bundles, bales and packages of as-
sorted sizes. From our shack we have sorted sizes. of Fox Point, and shortly I saw him take a tent, a new tent with pink and white awning stripes, out of its bag. He then picked up a slip of paper and appeared to be reading it
intently, after which he put the ridge pole through the tent. Next he attempted raise the hind end the front collapsed,
and when he raised the front the hind and when he raised the front the hind
end came down. At this stage I reported the proceedings
on Fox Point to my old friend Jim Stim-son- veteran hunter and camper, and
my companion on many arduous trips into the woods before we both reached the
age-limit for such strenuous outings age-"Amew hew hand at the gane", said
Jim, "Let's go over and give him a Jint, We paddled over to the point, ant beaching the canoe we went up to the
stranger who was looking at the flattened tent with a somewhat disgsustede expression.
As we approached he laid the slip of paper on the trunk, and in answer to
pur "Good-day" he said, "Allow me to our Good-day he he said, from a me silyer
introuce myself," and from
card-case he produced two cards which he handed to us. They bore the in-
scription "I Claude Perkins." scription "J. Claude Perkins."."
"Having trouble with your tent?" ${ }^{\text {queried }} \mathrm{J}$ Jim. Y . is behaving in a rather relactory manner, in fact in a most decided-
ly refractory manner. But I fancy it is ly refractory manner. But I fancy it is
chiefly the faut or the vague and in-
sufficient directions on this slip which actompanied the tent. The language is
 venture into the wilds, 1 know nothing
of such terms. I Thave after come non of such terms. I have after some cogita-
tion ascertained the identity of the
idide dion ascertained the identity of the
ridge-pole, but the term dgy' I have been
unable to elucidate." "A guy is a rope" said Jim. "Here you are, here are your two front guys. Now
let's give you a hand, and wetll soon have let's give you a hand, and we'll soon have
her up'. And in about five minutes we
had the tent pitcher I noticed that Jim's eye was running
over the tetan over the tent, and a critical expression
was on "his face. "Why," he said at
lenoth "did length "did you select a pink and white
striie?" "Well you see, " answered J. Claude,
"red is the complimentary color to green, red is the complimentary color to green,
the prevailing oior of the Iandscape,
but could I got the nearest I I could a pred tent, so
It seemed It seemed to me, too, that it , would be
more cheerful than plain white." more cheerful than plain white."
Jim winked at mue, and I heard him mutter "cheerful idiot.".
Just at that moment we heard someone approaching, the underburush parted,
and Major Brown, who owns the land and Major Brown, who owns the land
which Mr. Perkins has selected for a Camp-site, appeared.
Now the Maior is really a thoroughly
pood sote good sort, kinit heatted in the extreme,
but somewhit l/uff, and at timese even but somewhat huff, and at times even
bruspue, in his manner.
 "Who's the squatter?" Mr. Perkins
drew forth his rard.case, and with a bow
handed the M, ior a card. "I. Claude
 Claute drow hare you doing here?" J.
of his lank ip to his full height should be winn, tret. "The if it thation, Sir
must elucilate-
$\qquad$

THE FARMER'S ADVOCATE

## IMPORTANT DISPERSAL SALE

## Senator Robert Beith, Bowmanville

Proprietor of the famous Waverly Stock Farm, has instructed the under-
signed to sell by auction, without reserve, at the farm, Bowmanville, Ont., on

## Thursday, March 20th

## Clydesdales and Hackneys


 The Hackney stud is headed by the great champion prize-winning stallion. "Terrington Ceteways" (Imp.), also "Mainspring" "(721), a great son of ".erringto.". Imported, prize-
winning mares in foal; ;also colts and filies of all ages from all imported stock. Write for catalogue at once to
Senator Robert Beith, Bowmanville, Ontario
Walter Harland Smith, of the Union Stock Yards,
Toronto, will conduct the sale at Bowmanville.

Cairnbrogie Clydesdales
STLLL To THE Fore
Imported and home-bred stallions and mares of the highest quality and individuality. Our record at the teading shows of America surpass al competiors, and ef are ofrering for sale males and females or all ages, and
should be pleased to hear from prospective should be pleased to hear from prospective
buyers of quality Clydesdales at any time.

For prices and full particulars, write:
GRAHAM BROS.,(Cairnbrogie,)Claremont, Ont.

Clydesdales and Percherons
I have 15 Clyde Stallions, 10 Percheron Stallions and 10 Clydesdales Fillies. The best
collection I have ever had at any one time of prize winners and champions, all for collection I have ever had at any one time of prize winners and champions, all fo
sale at prices second to none. A visit to my stables will convince you. T. H. HASSARD

MARKHAM, ONT

## KNIGHTON LODGE STOCK FARM

 C. C. KETTLE, Proon. Whisonville, Ont., R.R. No. No. 1. Phone 230, Wateroroct. W. A. Woolley, Manaes

## SEEDS

Grown in the County of Haldimand.
 These prices good until next issue of
 trown here own flendis, lot of which
hithout breaking up.
wifteen years Red Clover-No. 1 .
Red Clover-No.

 Bags are 6oc. each. These prices are per bushel, freight paid on purchases of three
bushels or over. Cash must bushels or over. Cash must
accompany order. If seed does accompany order. If seed does
not satisfy on arrival ship back at The Caledonia Milling $\mathrm{Co}_{0}$ ud The Caledonia Milling Co., Ldd.
Caledonia, Ontario Caledonia, Ontario
Canada Food Board Llcense No. 87

## HALDIMAND GROWN

Red Clover Seed
No. 1 Purity, No. 1 quality at $\$ 25.00$ per bus.

HUGH A. ANDERSON caledonia
ontario
Seeds. A Limited Amount

 s.lver pror bis
N. CASCADEN oil city, ont
Kent County Seed Corn Salyers North Dakota R. J. WILKIE $\stackrel{\text { Address }}{-}$ Blenheim, Ont. Seed Corn ${ }^{-\mathrm{A} \text { A auantuy on select Ently }}$ Vellow Dent. A card will bring full particulare gro. b Langamot. Kent bridee keht com SEED CORN



## Percherons

NEW IMPORTATIONS STALLIONS \& MARES

Ton stallions four, five and six years old. Mares weighing up to 1800 lbs .
Everyone backed by the Hodgkinson \& Tisdale Guarantee.

We have these horses priced to sell quick.
Hodgkinson \& Tisdale BEAVERTON

Cheapest ! Whitest ! ! Most Sanitary!!!

## Acco Whitewash

Is used in stock yards and by farmers,
poultrymen, cattlemen, fruit growers,
dairymen. for whitewashing the ir barns, chicken and fowl houses,
stables, $\begin{aligned} & \text { airy houses, sheep and hoo } \\ & \text { pens, touse cellars, frutit trees, fences. }\end{aligned}$
 want white and clean. It has been proven that it gives the best results,
isthe cheapest material on the mar*
ket to-day. Guaranteed not to flake, peel or rub off. It preserves the
timber and makesyour buildings stand
up in good shape for years std at
ail seed, hardware and druy stores.
Harold F. Ritchie \& Co., Limited Toronto, Sales Agent
Manufactured by the
Acco Chemical Co., Ltd., Toronto Write for circulars on how to do
your whitewashing.

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## ABSOREINE

Reduces Strained, Puffy Ankles, Lymphangitis, Poll Evil, Fistula, and allays pain. Heals Sores, Cuts, Bruises, Boot Chafes. It is a
SIFE AMTISEPTIC AND GERMICIDE Does not blister or remove the
hairand horse can be worked. Pleasant to use. for special instructions and Book 5 ,R free.
 Wi.25 por bodile ex deapert or or dellivered. DB. PARESSAMT FIRE

Ringbones, Curbs, Solints, etc., and absorbs the bunches, doee not llill the hair, absorbs Capped Hocke


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$\$ 1.00$
Mailed to any address. P

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Army Veterinarians


## Proved by Hundreds of Tests

T IS impossible for the Dairy Farmers to blend and balance their stock feeds as they should be to get maximum results.

## CALDWELLS CALF MEAL

is mixed and blended only after hundreds of tests have been made, that is why we are confident as to results. Further, it enjoys the recommendation of leading stock men.

You can therefore sell your whole milk very profitably, and feed your calves Caldwell's Calf Meal. It is a complete substitute for whole milk.

Your dealer most likely carries this meal, if not, we will give you the address of the nearest dealer who does, or ship direct-Write us.

THE CALDWELL FEED AND CEREAL CO., LIMITED Dunda

Ontario

We operate the largest ex. clusive feed mill in Canada-bigh-grade stock and poultry feeds. We can send you pricics you require. arrival express my sincere thanks. Your nearly gone. The directions in regar to these water-wings really should be
more explicit, and then he added, "Allow me to introduce myself- J. Claud
Perkins - sorry I havn't a card with me "Friends and fellow-campers," said
Prof. Vesey, who is one of the oldest members of, our summer colony, "It
quite apparent that we need a new societ on Maniwek. We have our Put-out
your-camp-fire Association, our Ant ish-Liars League, and our Society for
he Suppression of Swell Dressing, but the time has come when a new organiza
tion is needed, a Society for the Iro "I think a Society for the Prohibition
of J. Claude Perkins would" be more to the point," said Jim. "But he need
more than a Society-he needs a nurse!
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


UNRESERVED AUCTION SALE of Entire Flock of LINCOLN SHEEP

## Stock Farm, $61 / 2$

miles south of Glencoe on
Tuesday, March 25th, 1919, at 12.30 p.m
$\qquad$

## horning

of my direc
0 my
ond

March 13, 1919
color, and after I had towed him ashore color, and ane with a wan smile and made
he thanked
his wobbly way to the tent. bis wobbly way to the tent,
As I struck out again across the lake
I thought Jim was right about the nurse, and we saw no more of J . Claude that day. and evening a few days later when the
One
隹 Came ers-including J. Claude-were as-
sembled to await the mail Polly Stillman sexclaimed "There's's a skunk round here. There was a general sniffing.
There was a general sniffing
"It is I," said $J$. Claude
"So it it is", "jaculated Polly, sniffing ${ }^{\text {in }}$, his direction. must apologize for rendering myself "I must apologize for rendering mysely
obnoxious, but I thought I had completely
eliminated the odor. I must havé be eliminated the odor. I must have be-
come accustomed to it as I cannot now detect it." "How you get mixed up with it?" ${ }^{\text {quer }}$ II was out gathering some blueberries this afternoon when I saw a strange
little black and white animal. Now little black and white animal. Now I
have of late been reading, 'Ways of the havi of late been read.ing, Kindergarten
Wildwood Folk', 'The of the Woods,' 'Brothers in Fur,' and other books which bring the lives of the
wild creatures so vividly and sympathetwild creatures so vividy and sympathet
ically before one, and I had resolved that tally before one, trip I would make friends
on my camping with some of these harmless wild animals. I have tries to fraternize with a wood-
chuck, a chipmunk and a red squirrel, but without much success. But here
was a little animal which seemed to be without any undue timidity. So I
approached it and as I did so it waved a handsome bushy tail at me in friendly greeting I am a little bit hazy as to just
it and I happened, but I encountered a
what what happened, but I encountered a a
powerful and most intolerable stench and powerful and most intolerable stench and
felt a burning sensation in my eyes and nose. It reminded me of descriptions
of a German gas-attack. When I could see once again the little animal was
ambling quietly off up the hill. I put ambling quietly off up the hill. $I$ put
most of my clothes in the lake, but $I$ had to burn my trousers, and 1 have been
scrubbing myself with tar soap most of the time since." On the afternoon of the following day,
as Jim and I were sitting in front of our shack we heard the Major calling to us
through his meganonee and we put oft through his megaphone, and we put off
for his cottage. When we arrived the for his cottage. When we arrived the
Major informed us that he feared Major informed us that he feared J
Claude Perkins was lost. He had been at his tert three times--wice in the
morning and again just now, - and he was not there.
"oint enghty glad you're here," he
said turming to to "im "Youre such a good tand at following a t rail."
We went over to I Claude's tent, and Wio went over to J. Claude's tent, and off into the tall timber back of the point.
We followed over tor a swamp, calling and listening repeatedly,
but getting no answer The trail wound but getting no answer. The trail wound
about a bit at first and then went as straight as a die.
said retty , rummy trail for a lost man,'
said lim ."Not tuat said Jim. "Not a turn in the last mile."'
We followed the trail into a burn and after going half a mile or so we got an
answer-a frantic hich -pitched will
 "Oh! my morich us. my friinds! You have
saved me. It thas been an saved me. It has been an awful night-
mare. But for you I should have faced death. by tar you 1 should have faced
d was loyst horvation or from wild beasts. As west, horpelessly lost."
"How didy turneel homeward Jim asked, "It's sthe fault of this frault on to enter thys read that it was injudicious to enter the woods without a compass,
so when 1 set out on a little ramble this
morning not ging far whught this along. I had
of my direction I was no longer certain to my crections. I knew that to to return
sulted
mv
I minst go north. So I con direction of compass and followed the
so that"Why thats puime exclaimed Jim.


$\qquad$
$\qquad$
$\qquad$

## 40 <br> EUREKA FARM AYRSHIRES High-Class Registered Animals

To be sold by Auction Friday, April 4, 1919 LOOK AT THEM. SOME OF THE GOOD ONES:
"Spring Hill Cashire" 30592, stock bull for Wm.
"Eureka Stirling" 44864 , has given 11,820 lbs. $4 \%$ milk
in 12 months.
"Eureka Belle" 45033 , has given $11,120 \mathrm{lbs}$. $4 \%$ milk
in 11 months.
"Humeshaugh Belle," sired by "Scot of Fernbrook"
lam, "Highlandl్ßeelle." This heifer is splendid type and SALE.-To be held at Eureka Stock Farm, near xcellent breeding. Anson Junction between Stirling and Campbellford.
"May" 34856 an excellent cow, with splendid udder DATE.-April 4th, the day following Menie District and teats. She has given 65 lbs . of $4 \%$ milk per day. Ayrshire Breeders' Sale at Campbellford. AT 1 P. M.

WM. J. HAGGERTY, Owner,

R. R. No. 3, Stirling, Ont.
C. U. CLANCY, Auctioneer, Campbellford, Ont.

Write for Catalogue

Consignment Sale
Elgin Pure-Bred Holstein Breeders' Club
WILL SELL
55 HEAD
55 HEAD

## Registered Holsteins

Thursday, March 27th, 1919
at ST. THOMAS, ONT. in McGuire's Feed Stables, Elgin St
A large number of these cows have R. O. M. tests and are fresh or due few calves. A large number of these cattle are bred to or from such bulls as ayne, King Segis De Kol Calamity Pont Shadeland Segis, Sir Colantha equally as good. Some are from herds where no testing has been done, but have splendid backing. Here is some of the offering:

Two young bulls with a $24.83-\mathrm{lb}$. sire; 3 daughters with a $25.47-$ lb. sire; a herd bull with a 26.76 -1b. 3 -year-old dam and a 27.28 sire; a cow with a 22.03 -lb. 4 -year-old recora, also her helfer calf; a ib. cow and a -y ear-old dad of a $27.76-\mathrm{lb}$. cow, and bred to a brother of May Echo Syivia, the
world champion cow. Others with R. O. M. tests or are under test now. No bye-bidding.
Sale under cover. Write for catalogue.
D. CAMPBELL, Pres
R. R. 8, St. Thomas, Ont.
R. Straffordville, Ont.

LIPSIT, Mgr R. R. 7, St. Thomas, Ont.


We have doubled our factory capacity and are determined to supply our customers far and near. See ad. also on page 488.

##   

Whenever you buy matches, see that the name "EDDY" is on best guarantee of safety and satistaction. More than sixty
years of manufacturing exyears of manufacturing ex-
perience is back of it. EDDY'S MATCHES


 Ever '9 real economy to wee thal
Tho E. B. Eddy Co. Limited Hull, Canada
Also Makers of Indwrated Fibrewero
and Paper Specialties
Cream Wanted
it to supply our well-established trade with good quality butter. Therefore, we are prepared to pay
you a higher price than any other creamery. We furnish cans and pay express chargcs. References,
MUTUAL DAIRY \& CREAMERY
TORONTO - ONTARIO
Cream Wanted
pay all express charges. We
supply cans. We remit
Ontario Creameries
LONDON - ONTARIO

## Western Ontario SHORTHORNS

Semi-Annual, Sale at Fair Grounds

London, Ont., Wednesday, March 26th, 1919


90 Head-25 Bulls, 65 Cows and Heifers
SAMPLE PEDIGREES


Representative selections from the herds of such successful breeders as W/m Waldie, John Gardhouse \& Sons, R. \& S. Nicholson, Geo. Gier, J. T. Gibson, Kyle Bros. and others is a guarantee that the offering will be high class.

Cows and heifers that in breeding and quality will improve any herd.
Bulls, in imported and home-bred offerings, include very promising herd bull prospects; some from high-testing dams.

All are sold under a liberal guarantee
FOR CATALOGUE WRITE
HARRY SMITH, Hay, Ontario, Manager of the Sale CAPT. T. R. RubSON, J. w. LAIDLAW, Auctioneers.

## Questions and Answers.




 Miscellaneous.

Varieties of Fowl.
What are the largest and best varitieie of poutity or the tablef What are the
best utility breeds? the largest egres? populat yarieties of hatere the mane
buprds for fancer purposes ; also of ducks, geese and turners) Ans. The largest variety of poutry produce Capons they are one of the hee meat breeds. The most favored meat
breed breeds are Cornish Games, Dorkines
Susser and Brahmas particult Sussex and Brahmas, particularly whet
the Game is crosed with the ofter mentioned ov croseded with the other
other breed thitis. There are everee other breeds but these are more onmonif
For general pulpose breeds the moit
 dotes, Rhode lsland Reds and orfingteoms



 In fact a Lipht hay hust as mane eges twent-five cegre in ald thre hundred and
tear. The most poppular varieties for farm work are the
general purposc breeds mentioned the


 Pekin, Indian Rumber, Rouens. lin geese Mollouse, Enbden, Afrian: In
turkys Bronze and White Holland.

## eterinar

Defective Sight
My one-vear-old horse drew a heary
load up a lonk pan wava 3 davs gean
 does not seem to see things dearly and
 somet hint to help him.

Ans--It is possille that the exexesin Conditions are liable to cause partial or As he is impraveving it is to outtic ropobale that the will have made a complete
recovery by the time vou see this. $\|=$ not you can hasten recovery by gying him 2 drams of nox vomica 3 time Diseased Eye. Cow became blind of lefte eye lasi
sunner.
In early winter the eye began to discharge mat ter. This continues and the eye has to be cleaned frequentry to
prevent tofensive odor. A lump formed prevent ontensive odor, A Aump
below the ear, isischarged pus, but healed and became quite small. but is now gegin increasing in size. She sems healthy keep her any longer? Will ofther cattle contract the disease? A. A.G.D. Ans. - The trouble is evidentian mingrant. An operation ny aveterinarial femove the whole eycball, and open the umor on the check and probably exisié atle becorming affectect. An examinia hon ay a veterinarian wouk
At a recent social gathering the conn If the street cars on til conder sate "It is really too bad." remarked ad sardines in a box ", "on is impt", retotredt


stions and Answers.
 ans should be learly thated wod
acompon oide of the
ariter.


Miscellaneous
Varieties of Fowl.
we the largest and best varieties
y for the table? What breeds? Which breeds the
eggs? What ware the
$\qquad$
$\qquad$
Brahnat variety of poutry
Ons they and you wish to

## eds. The mose one of the beet Cornish most


is crosed particularly, wot
t varietes. There the
the
ds but these are
put these are more conmone.
purpose breeds the most
PIymouth Rocks, Wyont
ode Island Reds and orks, Wyant
and number of egrs depens
the straid than on the breed
March 13, 1919

Sunnyside Herefords
 Mre M. H. O Nell \& Sons

## Aberdeen - Angus <br> Meadowdale Farm

 Forest, Ontario.4lomens Methews H. Fraleigh
Springfield Farm Angus




## ABERDEEN-ANGUS

|  |  |
| :---: | :---: |
| Alloway Lodge Stock Farm <br> Angus-Southdowns-Collies | like a large bill-of-fare for one cow, but it is what she consumed duriry cuatity of milk. |
| Choice heiers bred to Queen's Edward, Ist prize Indiand thate Fair. Bulls winners at <br> Robt. Mcewen, R. R. 4, London, Ont | Gossip. |
| Balmedie Aberdeen-Angus Nine exira geyin young bulls for sale. Also female: THos p. Show-ring quality | Minor \& Sons' sale of forty Scotch Short- horns, on Thursday, March 20. In the horns, on Thursday, March 20, most he which have calves by their sides, and |
| Kennelworth Farm Angus Bulls <br>  | also a numuer oflls of serviceable age, and six young bull by imported sires. Trains will be met at Low Banks station entred at the sale and luncheon will be served at the farm |
| Tho | ring some excellent breeding stock |
| ABRRDEEN-ANGUS | at your own price. For further particu lars look up the advertisement it anesss Minor, of Low Banks, for a catalogue |

Questions and Answers.

| Tenant Removing Straw |  |
| :---: | :---: |
|  |  |
| send also the cedar posts that were |  |
| at the edge of $t$ on the farm. |  |
|  |  |
|  |  |
| ing on |  |
|  |  |
|  |  |
| Ans.-It is probable that as to the straw the original lease (which we presume |  |
|  |  |
| If it does not expressly provide against removal of straw the tenant may legally |  |
|  |  |
| remove same, provided he does it prior |  |

to the expiring of his term as extended.
And the same, under the circumstances applies, we think to the cedar posts as
well. The tenant ought certainly to the e either the posts or an allowance for
the of them.

1. D Groundhog.
same facisil as the beart?
2. What family does the porcupine
3. Do racoons hibernate singly or
E. B.
4. No. The groundhop beionss to the
family Sciurida, the same family to
fhich the squirrel and chipmunk belong,
while the bear relons the the Urisd
while the bear belongs to the Urisda.
5. The porcupine belongs to the family
Ereitizontida, a a fanily of the order
Glines, otherwise known as Rodentia Gires, otherwise known as Rodentia or
Gnawers. The Sciurida is another family
of his order. ibernate in family groups.
6. Racons sibern
As a matter of fact the racoon does not
hibernate in the same manner as the bear
or the groundhog, which sleep through
or
from the time of "denning up" till spring,
but takes a series of "naps" of longer or
shater
ing about in mild weather. A. B. K.
Feed For Cows on Record.
What are the milk records of some o
the champion Holsteins? What amount
of feed does a cow eat when on test?
Wh
conen do the registrations of Holsteins
comerce?
Ans. - Records are continually being
W.
broken. We night mention what cows
which have been champions in their day

Madoline made 21,149 lbs. as a four-year-
old; Plus Pontiac Artis made 21,018 lbs.
as a three-year-old; Duchess, Wayne
Calamity nd has a record of $16,714 \mathrm{lbs}$.
as a three-year-oldi Tilly Arcartra has a
record of around 34,000 lis. We cannot
give the amount of feed which these cows
give the amount of tend which these cows
consumed, but we know it was a coodly
amount
Exaw beeders keep track of the
exount of feed which their stock
amount. Few orecers keep trak or sthe
e exact amount of feed which their stock
consumes. Howere, as a guide
might quote figures from the Holstein-
Frirsian Record which gives the amount
of feed consumed by a cow in the Pennsyl-


alfalfa meal, 44 lbs , blood meal, 2 lbs.;
molasses
 Shorthorns - Herd headed by Victor Stamford 95959, and Master Marguis 12323 , a great son of Clydedale stall on, and Scotch Shorthorns of either GEO. D. FLeTcher, R.r. 1, Erin, Ont. Erin Sta., C.P.R. L..-D. 'Phone.
WILLOW BANK STOCK FARM
SHorthorn cattle and Leicestrr sheep. Herd Established 1855--FLOCK 1848 .
 Beach Ridge Shorthorns and Yorkshires - Shorthor herd headed by sylvan Power


18
WALNUT GROVE STOCK FARM

Southview Farm Shorthorns



LARKIN FARMS Queenston, Ontario ABERDEEN ANGUS and JERSEY CATTLE SHROPSHIRE and SOUTHDOWN SHEEP Correspondence and Inepection Invited BOYS and GIRLS $\begin{gathered}\text { Get started on the right foot by geting the } \\ \text { kind of cal that will win. The Grand Cham- }\end{gathered}$




ELM PARK ABERDEEN-ANGUS
Brookdale Herefords
 6 BULLS BY ESCANNA FAVORITE
A son of the famous Right Sor (imp.) All are read for service and priced to gell. We have
others younger and coutd ppare a number of young cows calving early to the service of the mane gires. Write don't delay. C.P.R. Station on farm, Bell 'Phone Bellwood, Ontarlo.

 Rameden, Wh
Goo. Itanac

Creekside Scotch Shorthorn Heifers

 Pride and from a show cow. A number of other good bulla and a few females. Write for particulera K YLE BROS., R. 1 , Drumbe, Ont.

wM. SMITH, COLUMBUS, ont. Myytle, C.P.R.; Brooklin, G.T.R.; Oshawa, C.N.R.
PINEHURST R. O. P. DUAL-PURPOSE SHORTHORNS



## SHORTHORNS, CLYDES



[^2]

## Calf

Enemies
WHITE SCOURS BLACKLEC

Your Veterinarian can stamp them out with Cutter's Anti-Cal Free Blackleg Filtrate and Aggressin

Ask him about them. If he hasn't our literature, write to us for

The Cutter Laboratory - Berkeley, Cal., or Chicago, Ill.

Mardella Shorthorns Herr headed by The Duke, the great, massive 4 .
year-old sire, whose dam has 13.599 ibs. of milk
and 474 bits. of butter-at in the $R$ O. $P$, test have at present two exceptionally Rood, young
bunls ready for service, and others younger, as well
as females all ages. Some are full of Sortch breed ns. and all are priced to sell. Write or call.
HORT
IRAHAM

## Evergreen Hill Farm

 R.O.P. SHORTHORNS Offering two bulls 12 months old by St. Clare,R.O.P. No. 5. S. W. Jackson. Woodstock, Ont. $\underset{\text { Bave for sale } 4 \text { very high-class Shorthorn bulls, }}{\text { BULS }}$ yearlings and two years old. These bulls are to
 Ser of Shorthorn bulls which are pure Scotch and cotch-topped; extra yood quality, out of high-reyearling Clyde Stallion; also a good two-year-l|
mare. P. CHRISTIE \& SON, Port Perry, Ont. Shorthorn Bulls $\begin{gathered}\text { for Sale - Eight } \\ \text { young bulls of ser- }\end{gathered}$ iceable age. Sired by the imp. bull Donside WM. GRAINGER \& SON, Auburn, On
Graham's Dairy Shorthorns
have a choice offering in cows and heifers in calf.
Bulls from the heaviest milking strains. Charles Graham, Port Perry, Ont Maple Leaf Farm $\begin{gathered}\text { Shorthorns-A high qual } \\ \text { ity Miss Ramsden bull calf }\end{gathered}$


SHORTHORNS Two young cows and two bull calves 9 montiy
old, all bred direct from (impt.) stock, will be sold at prices that will please the buyer. H.wkesville, On

## SHORTHORNS

## Present offering, 6 choice young bulls and a ff females, their dams are good milkers and best

One Registered Shorthorn Bull
sale 11 months. A goo
RED PRINCE

Questions and Answers. Miscellaneous.

Where can I secure a pair of ferrets? Ans.-We do not know of any breeder would make your wants known throug the medium of the "Want and For Sale" columns of "The .Farmer's Advocate,
we feel satisfied you would get results Sidebone
Will small sidebones on the outside o each front foot interfere with the horse'
usefulness? usefuiness?
but is there any danger of this causing lameness? Would a horse with side bones pass as sound?
Ans.-Sidebones are generally classified as an unsoundness, and there is dange of them causing the horse to go lame.
It is one of the bone blemishes which it is not always easy to detect, but it is
sidered serious by most horsemen. Miller's Toll.
What toll can a miller take in the custom grinding of wheat? Is there any amount set by the Government? Ans. - We have written the Depart
ment of Trade and Commerce, at Ottawa and the Deputy Minister replied as fo lows: "As I understand it, the practice
now is for the farmer to sell his wheat to now is for the farmer to sell his wheat to
the miller, who supplies hira in place thereof with flour; so this matter taking toll does not prevail to any extent However, where an arrangement is made
the following seems to be the prevailing one: On 60 lbs . of wheat the following is supplied: 40 lbs . of 74 per cent. flour; miller taking 10 lbs. for gristing or toll. Buff Leghorns.
Where can I secure` Buff Leghorn be good crossed with Buff Leghorns?
Ans.-The Reds and Leghorns migh cross all right, but we prefer to keep th
breeds separate. We believe results will be obtained in the end by so Leghorn cockerels could be secured at th present time. A small advertisement
pfaced in our poultry columns would placed in our poultry columns would un-
doubtedly medium through which the purchaser and seller can get together. We do not
notice any Buff Leghorns advertised at Weak Legs in Fowl. dry have pullets confined in a light, airy fed on barley and wheat in the morning boiled oats at noon, and corn at night
Some of the hens have lost the use of their
legs. One bird has nearly recovered and one has died. What is the cause and Ans.- The trouble described is not
thoroughly understood but is fairly comhoroughly understood but is fairly com-
mon in the approach of spring and is It is usually associated with birds that extremely well during the winter. Give spoonful each, and open the doors so that on the ground put a little straw on it and

Hairless Pigs-Thrush.


Our Milker Book, containing over 50 photos from life, has been the source guiding many dairymen to make the correct choice. We would be pleased to mail same to you,

H. F. BAILEY \& SON The Milking Machıne Specialists. GALT, ONT

For Quick Growth and

## Early Matùrity, Feed

 Gardiner's Calf Meal It replaces perfectly the cream in skim mill, andprovides the nourishment neeessary for quick vidorous in frowth. It is ir rich in protein, and several
in than any other meal on the market.
In iat than any other meal on the market.
If Peed Gardiner's Calf Meal frat with . F .m miftr, the with milk-and-water, and finally with water only, and steera will be ready for market so
tood lor colts, lambs and little pigs.
If Put up in 25,50 and 100 Ib , bags. If your dealer
doesnt thandle it. write us for prices, and for information

GARDINER BROS., Feed Specialists, SARNIA, Ont.

## Dual-Purpose Wilking Shorthoris

Herd headed by Dominator 106224 whose two nearest dams average pounds of milk. To make room for the natural increase in the herd severa cows and heifers in calf to Dominator must be disposed of, and are pricedtio sell. Have a roan bull 12 months old and a red bull 6 months old by our

Weldwood Farm
Farmers Advocate
LONDON, ONTAR

## Imported Shorthorns

Imp. Collynie Ringleader Imp. Clipper Prince Imp. Orange Lerd
Bert b b Geo. Anderemen
(Bred by Wm. Duthie) (Bred by Geo. Campbell) (Berd by Geo. Anderoon)
We are offering a large selection in imported females with
calves at foot or in calf. A few home-bred females, 19
imported bills and 8 homa-bred bulls, all of serviceable
If intercsted, write us, or come and see the herd.
J.A. \& H. M. PETTIT - Freeman, Ontario

## Highland Lake Farms


Robert TMiller, Stouffville, Ontario d beautifully pred.
Rosemary fyltan

Pure Scotch and Scotch-Topped Shorthorns
 R. M. MITCMELL Frices right. R. No. FRERMAN, ONTARO Shorthorn Bulls and Females We are also offering a few females in calf


Matich 13,1919


## Flintstone

Farm

Milking Shorthorn Cattle,
Belgian Draft Horses Berkshire Swine.

We offer animals that will raise herds to a level of war-
time efficiency. Bull calves
from $\$ 125$ up

DALTON
Massachusetts
English Dual-Purpose

## Shorthorns

English bred for milk and beef. The right kind to head Canadian herds to increase profits. From very moderate prices and great bacon type, long and deep, thrifty.
Come
LYNNORE STOCK FARM F. Wallace Cockshutt

MAPLE SHADE
Shorthorns
Young bulls sired by "Archer's
Hope." Ten imported
bulls. Best Scotch
WILL. A. DRYDEN
BROOKLIN - ONTARIO

ГHE FARMER'S ADVOCATE

How E. C. Drury Views the Tariff.
When Tdiscussing "Economic Prob lems" at the last convention of the U.F.O, E. C. Drury, Barrie, Ont., paid consider
able attention to the tarift.
Owing to able attention to the tariff. Owing
the length of his address it was not io cluded in the report of that convention, but we are reproducing the chief features
of it here (or the terested in this perennial question. The manufacturers have made their state-
ment, and it is well to consider both sides. Mr. Drury's arguments follow: What is the tariff? It is an impor tax levied on goods entering a country Where these goods are actually imported the amount of the tax goes to swell the revenues of the country, and in this cas the tariff is properly a "revenue tariff.
It must be borne in mind, however, that the tax is paid by the people of the country into which the goods enter, and who
ultimately consume them, and not by the ultimately consume them, and not by the
'foreigners" as the advocates of protection have so often claimed. The price, for instance, of a piece ef Scoltimate chaser, a sum made up in something like the following matter: Cost of manufac ture in Scotland plus freight,plus customs duty, plus reasonable profits, wholesale and retail. That the retail price is For instance, I. I. Harpell, in his book, "Canadian National Economy," published in 1911, gives this instance. In London, England, the price of cement (at to 90 cents, freight from London to Montreal $281 / 2$ cents per bbl., plus duty 28 "cents per bbl. Thus the price in Montreal would be 80 to 90 cents plus $\mathbf{2 8 1 . 4 5}$. As a matter of fact, Mr. Harpell found the price $\$ 1.35$ to $\$ 1.40$ per bbl., or exactly as we $\$ 1.35$ to $\$ 1.40$ per mightexpect. the national treasury, and if revenue must
be raised (as it must) and if we agree be raised (as is a wise way to raise it (a debatable question) we have nothing of which to complain.
However, in the case of the home-made article the situation is slightly different. This article sells for approximately the
same price as the imported article, or we same price as the imported article, or we
would not (as we do) find the two articles selling side by side. If there were no
duty, the foreign-made article would sell for just the amount of the duty less, and
the home-made article would have to sell the home-made article would have to sell
for a similar price, or not at all. the case of the home-made article then,
the amount of the duty goes, not to the national treasury, but to the pocket of
the manufacturer, and represents either that much extra profit to him, where he is as well situated as ine cheaply, or the loss he would be
produce cher compelled to accept where he cannot
manufacture as cheaply as the foreigner. In either case, whether the duty represents an exhorbitant profit or merely recoups
him for a loss which he would otherwise sustain, the amount of not to the national treasury. This is what is called the pro-
tective feature of the tariff. But the protective tariff has other secondary effects which are quite as im-
portant as the primary effects. Because it increases the cost of so many articles used by all the people (whether these
articles are home-made or imported) it increases the cost of living of all the peo-
ple. Therefore, the money wages of all ple. Therefore, the money wages of an-
workers must be raised to meet the increase. The teacher, the preacher, the
doctor, the lawyer, the laborer, the redailer, and all the other classes, must have more money in order to meet the in-
creased cost of the "protected" articles they must buy. They are not any better
of in reality, but their money wage is higher. This again increases the cost of
their services to each other and to the community, and so the "vicious circle" is
started, and the cost of living goes up and up.
But, if there are "protected" industries,

Important Sale of
SHORTHORNS FORTY HEAD

The entire herd belonging to John Elder and selling at the farm near
Hensall, Ontario, Wed., March 19
Shorthorn breeders will recognize in this offering a herd that has retained a high place among the better Western Ontario herds for almost a quarter of a century. The pedigrees are full of both English and Scotch blood, and
in no herd can there be found more profitable breeders. The breeding cows, many of which are sired by the noted bull Scotch Grey, are all good milkers, a number having given upwards to 55 lbs. per day on twice a day milking. The present stock bull, Crown Jewel 42 nd, by the noted Best Boy, was the toppriced calf in the London sale in 1916 . All calves selling with their dams are
sired by this bull as are also the 1918 offspring. These include twelve young sired by this bull, as are also the 1918 ofsppring. These include twelve young
bulls, all of which are ready for light service. The cattle are selling in good breeding condition. The farm has been sold. There, is no reserve.
Write for catalogue.

JOHN ELDER,
HENSALL, ONT.

## AUCTION SALE OF 40 HEAD 40 <br> Scotch Shorthorns

IRA MINOR \& SONS
At Low Banks Stock Farm, Low Banks, Ont.
Three miles south of Low Bauks Station, G.T.R. Line, on
Thursday, March 20th, 1919, at 1 o'clock
Twenty-one cows, nearly all with calves by side. Thirteen choice heifers, 6 months up. Six young bulls, serviceable age, all by imported sires

Sale will be held under cover. Conveyances will meet all trains at Low Banks Station. Luncheon at noon.

TERMS:-Cash, or 6 months' credit on approved joint nowast 0 per cent
Auctioneers: T. Robson, F. Montague, W. N. McQullen Catalogues on application.

## A Proven Shorthorn Sire For Sale

## $=92562=$. A richly bred claret son of Proud Monarch $=78792=$. He is active, sure, weighs 2300

 lis. in ordinary condition and is one of the best breeding bulls the college has ever owned, SootchShorthorn character, individualit, prepotency and pedigrees are combined in this bull which lo
offered at a low price. ADply to

WADE TOOLE, Animal Husbandry Dep't, O. A. G.
Choice Shorthorn Females


A FEW SCOTCH SHORTHORN BULLS Several are old enough for service and all are got by a grandson of the great Superb Sultan. Indiv-
idually they arestrong enough ot headd the best of herds, and the breeding is unexcelled. Write us
also for any thing in Shropshires or Clydesdales. also for any ything in Shrosphires or Clydesdales.
ROBERT DUFF \& SON.
$=115964$ "DUAL-PURPOSE SHORTH

 ome and se them. Hugh. A.' Scott, Caledonia, Ont. Phone 5-18, R.R. No. 3. (Will meet
caledonia trains).

PEART BROTHERS SHORTHORNS

SPRUCE GLEN FARM SHORTHORNS

# Old Reliable Sale <br> Oxford Holstein Breeders' Club <br> will hold their annual spring sale of <br> <br> 75 Head of Registered <br> <br> 75 Head of Registered Holstein Cattle 

 Holstein Cattle}
at Dr. Rudd's sale stable, Woodstock, on
WEDNESDAY March, 19th, 1919
Most of the females are fresh or springers. There are about 20 bulls fit for service. All animals have good official breeding, good type, good condition, all inspected and all will be sold and sqtisfaction guaranteed. As there are some great producers offered, anyone wishing dairy cattle at their own prices should attend this sale as the Club is endeavoring to make this the banner one of the season, come and you will not be dissappointed. Write W. E. Thomson, Woodstock, for catalogue

MOORE, DEAN, PULLIN, Auctioneers

## The Manor Farm Consignment

Canadian National Holstein Sale
April 10th-11th, 1919
Will include twenty-three daughters of King Segis Pontiac Posch and others. Watch these columns for further particulars. GORDON S. GOODERHAM, Clarkson, Ontario farm on toronto and hamilton highway

## BEAVER BOARD <br> FOR BETTER WALLS 8 CEILINGS

## Better Farm Homes

Cheerful and Comfortable Rooms
One Beaver Board room in the house and you'll want more. For the new home, for remodelling or repairing, the settle the question of walls and ceilings once and for all time.

With different effects in each room, ranging from contrasting panels to the delicate effects in bedrooms, there are no limitations when you choose Beaver Board instend of lath and plaster

Beaver Board is real lumber, built up of pure sprucefibres, ready to be nailed on the studding of new buildings or right over old cracked and papered walls

Your home $\operatorname{can}$ be made permanently beautiful with Beaver Board. See the Beaver Board dealer near you. Write for our book "Building.
More Comfort into the Farm Home."

> THE BEAVER CO., LIMITED
> 315 Wall Street, Beaverdale, Ottawa
> Plants at Ottaroa and Thorold, Ont.

Distributors in principal cities. Dealers everywhere

R. Laidlaw Lumber Company, Limited, Toronto
R. Laidlaw Lumber Company, Sarnia.
oo. H. Belton Lumber Company, London.
Guelph Lumber Company, Guelph.
Vindsor Lumber Company, Windor.

33-LB. GRANDSONS OF LULU KEYES
I have at present ten young bulls all sired by my own herd sire, King Korndyke Sadie
 D. B. TRACY $\begin{gathered}\text { (Hamilton House Farms) }\end{gathered}$ COBOURG, ONT.

## Sunnybrook Holsteins!

The Bull is the first consideration!

Jos. Kilgour, Eglinton P.O., North Toronto.
ORCHARD LEIGH HOLSTEINS
 AS. G. CURRIE \& SON, $\begin{gathered}\text { Ser } \\ \text { (Oxford County) }\end{gathered}$

RIVERSIDE HOLSTEINS-CHOICE BULLS

Alluvialdale Stock Farms Offer For Sale

CLOVERLEA FARM HOI STEIN
.n. Tor sale some choice young bull er


SILVER STREAM HOLSTEINS
 Youns Bulls for Sale from Ron


allowed to charge, consumer, must be more than the manufacturer 40 per cent. charges after maying the freight across the ocean, and to the point of consumption. It means that, when every
hand in Canada should be turned to the most profitable industry in order to ntect our immense obligations, these industries
must not be expected to help pay our must not be expected to help pay our
debt with goods, but must actually be allowed to tax other self-sustaining to pay tries, to be a clog to our endeavor. terested sophistry". However, enough "it of Mr. Parson's speech to make us take even this statement with more than the proverbial grain of salt. Let us examine I believe it under Free Trade manufacturers in Canada would cease. There may be
some, for which the country is unsuited some, for which the country is unsuited
that might be forred to close down, but of these few we would be better rid, since it is obvious that they are now operated at a loss which they avoid only hy shifting
it to the shoulders of the consumers. it to the shoulders of the consumers.
To say that manufacturing cannot be carried on in a country such as Canada, where there are almost unlimited stores of various raw materials, limitless waterpower easily transmitted in the form of population, and where living, under free trade conditions would be cheaper and more abundant than in almost any other place on the globe, is on the face of it,
ridiculous in the extreme of course, would not admit it but the fact is, our manufacturers do not want lower tariff because they would be farcere
by it to forego unusual profits, to squere the water out of their concerns, and to give up the advantages which they have
attained through mergers and combines, attained through mergers and comblines
in the control of the market. Let us look in the control of the market. Let us look at one or two cases. In Blue-Bo
No. 39 of the year 1909, we find on
record

## OARD <br> 8 CEILINGS

## Homes

## table Rooms

ouse and you'll want lelling or repairing, the ufactured lumber will s once and for all time.
m , ranging from conS in bedrooms, there
p of pure sprucefibres, $g$ of new buildings or valls. utiful with Beaver Poart.
te for our bools "Building

## IMITED

otam:
elers everymere


## ampany, London.

 Company, Guelplse to the consumer, must be o charge, 20, 35 or 40 per cent. n fter manufacturer in England n , and to the foint of tom $\dot{C}$ It means that, when every Canada should be turned to the inse obligations, these industries be expected to help pay our a goods, but must actually be , to be a clog to our endeavor r debts. However, enough int orson's speech to make us take statement with more than the grain of salt. Let us examine
ditions as far as we can e it is pure "bosh" to say that ree Trade manufacturers in which the country is unsuited
be forred to close we would be better rid, since hich they avoid only hy shitting shoulders of the consumers. in a country such as Canada, re are almost unlimited stores
raw materials
ily ily transmitted in the form of , and where vile and resourceful ditions would be cheaper and he globe, is an tho any other would extreme. Mr. Parsons, ir manufacturers do not want I because they would be forced
rego unusual profits, to squeeze out of their concerns, and to e advantages which they have
hrough mergers and combines, rol of the market. Let us look the yeases, In Blue-Book at we may well believe is a

## Belleville District Holstein Sale

Canada’s Greatest Annual Auction

ALBION HOTEL STABLES

## Belleville, Ontario, Wednesday, April 2nd, 1919 100 HEAD

## The Usual Superior Belleville Quality

Selected from the same herds that produced May Echo Sylvia, 41 lbs ; Lulu Keyes, 36.05 lbs; Keyes Walker Segis, 34.65 lbs ; Hill-Crest King Pontiac Rauwerd, 34.4 lbs; Lawncrest May Echo Posch, 33.78 lbs; Edith Prescott Albino Korndyke, 32.68 lbs; Plus Pontiac Artis, 31.55 lbs; May Echo, 31.34 lbs; Victoria Burke, $31.30 \mathrm{lbs} ;$ Princess Segis Walker, 30.70 lbs; Rauwerd Count De Kol Lady Pauline, 30.46 lbs; Lulu Darkness, 30.33 lbs ; Hill-Crest May Echo Countess, 30.10 lbs ., and etc.-all official 7-day record cows. In the yearly record list, follows Mercena Calamity Posch, 26,448 lbs; Daisy Pauline Pietertje, 23,807 lbs; May Echo, 23,707; Hill-Crest Pontiac Vale, 22,785 lbs; DeKol Plus, 22,304 lbs; Plus Pontiac Artis, 21,018 lbs; DeKol Mutual Countess,

For The Worlds Best Blood, Come To Belleville
All requests for Catalogues should be addressed to

## JAS. CASKEY, Sales Manager

FRED MALLORY, Sec.

## - MADOC, ONT.

FRANKFORT, ONT.
Kindly mention the Advocate when writing

Europe Wants HOLSTEINS
 European countries are in similar condi-
Hion BRERD
WATS. IF YOUT THE WORT WUR WANTS. IF WHAT THE WORLD
HERD, BUY A HETHER Information from the
HOLSTEIN-FRIESIAN ASSOCIATION President. Dr. S. F. F. Tolmie, M. P.,
Victoria, B. C. Secretary, W.A. Clemons, St. George, Ont. Holstein Bulls
 R.R. NO. M. HOLTBY R.R. NO. 4, PORT PERRY, ONTARIO
case typical of many among our manu-
facturers facturers. The Dominion Texthe Co.,
making cottons, had cut down the wages of its employees, alleging that it did not of eceive sufficient tariff protection to
ren enable it to pay fair wages. A deadlock occurred as a result, between employer
and employees, the Department of Labor and employees, the Depand as a result, the Secretary of the Company admitted under oath that, while the Company was only paying 5 per cent. on its stock, this stock
had cost but 10 cents for one dollar's worth, so that the innocent-looking 5 per the Company was writing off immense sums for repairs and betterments. A enormous profit, so well disguised that it
was only by chance the public found it was. Let us consider another case, that of about by that noble peer, Lord Beaverbrook. In the year 1909, cement-making had advanced sufficiently in Canada to bring about competition, and prices were
coming down to such an extent that some

20,679 lbs. and Fremona 2nd, 20,215 lbs. All are of the Belleville District breeding and many of them have passed through previous Belleville sales as untested material. Again for this year, practically everything listed is of much the same breeding and like those mentioned above, all are young and many are still untested. As for the bulls that are catalogued, they too are bred along these same lines. Their dams include 100 pound per day cows and their sires include such noted bulls as Count Segis Walker, Pietertje, King Segis Alcartra Spofford, Sir Saddie Korndyke Segis, Inka Sylvia Beets Posch, Pontiac Hermes, Sarah Jewel Hengerveld's Son, North Star Sir Clyde, Count Gerben, and etc.

Raymondale Holstein-Friesians



Write to-day.
D. RAYMOND, Owner

## HOSPITAL FOR INSANE HAMILTON <br> ONTARIO

Present herd sire is one of the best sons of King Segis. Alcartra Spofford. We have three of
his sons born during May and fune last, and also a grandson of
AVERAGE 114.1 LBS. OF MILK Premier Middleton Keyes, No. 28052 ; born Nov 1, 1918, and about $75 \%$ white; a per-
fect individual and great tize. His two near dan and sire's sister average 30.97 tio.

 H. H. Bailey, Mgr.,

## Important Public Sale Forty High-Class Holsteins

DRAFTS FROM THE HERDS OF

W. B. Poole<br>(FIRTH FARM)

and
Alfred Groves
(believue farm)
Selling at Firth Farm 3 miles South of
Ingersoll, Thursdáy, Mar. 20th, 1919
of the offering throughout, is the large number of cows that will be freshening of the offering throughout, is the large number of cows that will be freshening all to the service of the chief service sire at Firth Farm, King Iohanna Rauwerd. The dam of this great young sire is the former champion R.O.P cow, Calamity Johanna Nig, with $25,447 \mathrm{lbs}$. of milk and $1,007.5 \mathrm{lbs}$. of but ter for the year. While his sire, Hill-crest Ormsby Count, is a son of the that arrive before sale day will not be sold, and the 1918 heifers will also be retained.

Mr. Groves consignment comprises seven mature cows, seven two-yea with two exceptions the cows are all in full flow of milk and arein this sire. Captain Snow Canary Hartog No. 26195 is a son of Calamity Snow Mechthilde 2nd Canadian Champion three-year-old R.O.P. butter 1053 lbs milk 23274 lbs , R.O.M. 32.70 lbs , butter, 108 lbs mik in 1 day. His fou day. His 1918 and 1919 heifers are the only Holsteins the will hirk in in the herd. The mature herd sells in its entirety, and, like the offering listed above it, should appeal to all who are insearch of good breeding Holsteins of heavy-producing blood.

All requests for catalogues should be addressed to Mr. Poole.
Conves form will start from Atlantic House, Ingersol
W. B. Poole, Ingersoll, R.R. No. 5

Alfred Groves, Salfo

Dispersion Sale HIGH QUALITY DUAL-PURPOSE SHORTHORNS

Owing to the death of the late S. A. MOORE the entire herd will be sold without reserv

## THIRTY HEAD

farm one mile out of Caledonia, Ontario
Tuesday, March 25th, one o'clock (SALE UNDER COVER)

The herd has been built up on strictly dual-purpose lines. Splendid ecords have been made, but Shorthorn type and conformation have not
been lost sight of. The mature cows are big, deep, thick individuals, and that they are good milkers is borne out by the recor, thick individuags, and In the offering are thirteen mature cows with records of $7,500 \mathrm{lbs}, \mathrm{up}$ to five bull calyes and six heifers been Burnfoot Chieftain an dam, Dairymaid, has an R. O. P. record of 13,535 lss milk and 50 and his at. His daughters in milk are running over $8,000 \mathrm{lbs}$, in their two and three ear-old form. He is im, and many of the cows are in calf to him. Burnfoot Lady, record 10,681 and indicate the quality of the hord. Catalo over 8,000 lbs., are in the sale

Bids by mail will be executed by the auctioneer
Dinner served at the farm
Capt. T. E. Robson, Smith \& Son, Auctioneers
Mrs. S. A. Moore
Caledonia
companies, probably because of undue profit. Moreover, they were not sufficiently well organized to keep out foreign competition, cement from both the U. S and Great Britain being sold in Canada. Maxada Cement Co, takine in panies with a tota! capital of $\$ 17,750,000$ poured in $\$ 20,250,000$ of water, making the new capitalization $\$ 38,000,000$, raised the price of cement in November, 1909,
50 cents per barrel, and drew off enough profits to become an English landed proprietor, a Knight, and ultimately, a
Peer. But every building erected in Canada has been paying toll ever since. There is every reason to believe that in the cement industry, unusual
cessive profits are being made.
On Oct. 26th, 1910, the Grain Grower
Guide published a list of mergers that.ha been formed in Canada since the be-
ginning of 1909 . They showed 20 mergers formed, absorbing 135 individual com new concerns were very largely watered. turers, it is well to remember that the large injection of water has been almost uni
versal in the history of Canadian manufac very innocent and reasonable profit as when the water in the stock is considered, of the Dominion Textile Co., cited above.
The late president of the Canadian Manufacturers' Association, during the discusson the past year arising out of
press criticism of the high tariff propaganda of that Association, stated his belief
that, "generally speaking, over a series of years farmers averaged up on their centage of profit as did for lack of capital he handicap of protection, cannot find
 Seventh Semi-Annual

BRANT DISTRICT BREEDERS CONSIGNMENT SALE OF

50 Registered Holsteins
50
HUNT and COLTORS Livery Barn
Brantford Ontario, Wed. March 26th, 1919
The Brant District Holstein Breeders are endeavoring to make this one of the best sales ever held in Canada. One of the most outstanding features of the sale is that the stock of fered is all inspected by a competent commitee, and nothing offered in females other than cows fresh or due about sale time ( 47 head). There will also be three richly bred bulls ready for servir

As Brant District is noted for its high-class herd sires including such bulls as a son of Baroness Madoline, a grandson Snow Mechthide and and and old Lakeview Dutchland Hengerveld 2nd the unbeaten buli in the Canadian show ring. With such breeding this should be a grand opportunity to strengthen your herd
I. W. Craig, Pres.
E. C. Chambers, Sale Manager Col. W. Almas, Auctioneer
N. P. SAGER, Sec. Tres., St. George, Ont.


March 13, 1919


## EAD

, one o'clock

Caledonia
to the country will surfix
int, and if any of them sho
simple operation change of
Tapping" will remove the
oisture from their system

Summer Hill .Oxfords


The strue for mo Proderer, Butcher and Coneumer.
Our Oxfords Hold an Unbeaten Record for America.
 PETER ARKELL \& SONS

Get Longer, Better Wool Shear with a machine and leave no second cuts nor
sear the stheep. Use a Stewart No. 9 Ball Bearing



 SHROPSHIRE SHEEP

 TOWER FARM OXFORDS
 Shropshires and Cotemoldo- $A$. Iot of young lambe, good size and quailty ty at reasonabile pricese

FOR SALE

| Shropghire ewe lambs and young ewes, two |
| :--- |
| Clydedial Stallions, foushorthonn bulls, |
| W. Ho. Pugh |



 Proale Hedden R. R. No. 2 Pofferlaw, Ont. TAMWORTHS

Meadow Brook Yorkshires Sows bred. others ready to breed, Six large
litters reay ro ment
bred C. W. MuNERS, R.R. No. 3, Exye Exoter, Ont. Big Type Chester Whites -Three importationo
 JoHN G. ANNESSER, TUbury, Ont. Poland China and Chester White Swine
 GEO. C. COULD, R.R. 4, Enaex, Ontaro

 London and Gueld h win
Prospect Hill Berkshree- Young stock, either
 and frices rime ter beck boar, Ringleader. Terms


 BERKSRIRE PIGS
position which will be the work of the Since it is to Canadian farms that we
must largely look for the exportable must largely look for the exportable
surplus which alone can save us from surplus which alone can save us from
national bankruptcy, since Food Connational bankruptcy, since Food Con-
troller Thompson was literally right when rrolier Thompson was literaly right when
he said that the first six inches of Canadian soil must pay our national indebtedness it is perfectly clear that this industry
must be set free to do its part. It is and must be set free to do its part. It is and
has been, sorely handicapped scheme as has been, sorely handicapped scheme as
folly, what shall we say of the more ambitious scheme of a Federal coast to coast highway? This road will be abso-
lutely useless lutely useless. We already have three
transcontinental transcontinental railways, two more than
we need, and we don't know what to do we need, and we don't know what to do
with them, because there is not enough with them, because there is not enough
traffic to make them pay. To add to these an almost equally paypensive highway along which none but long-distance
tourist traffic would pass, would be to tourist traffic wo
pile folly on folly
pile folly on folly
The worst of
country worst of it is, the people of this country cannot depend on either the
wisdom or the good intentions of their leaders. Time and again have we been committeed to issues involving serious consequences for no object but to win an
election. In 1878 Sir Jno. McDonald introduced his national policy to wonal election, though it is said he had also a speech advocating Free Trade in his
pocket, and would have used it had pocket, and would have used it had
Mackenzie taken the other side. Sir Mackenzie taken the other side. Sir
Wilfred Laurier launched the Grand Trunk Pacific to provide an election cry, and it has been a burden to us ever since,
but in 1911 the people stampeded inte people of Canada were wisest thing we ever had a chance on prosperity, but would have increased our bonds of friendship between ourselves and our great friend and ally to the south.
They were stampeded by the They were stampeded by the most
wicked and traiterous cry ever raised, a wicked and traiterous cry ever ralsed, a
cry which was intended to arouse, for
me mere election purposes, that most danger ous thing in the world, national hatred You remember the slogan, as false as it
was wicked, "No truuck nor trade with the Yankees.", "No truck nor trade with the We need a new National Policy. That of the Canadian Council of Agriculture
With With ite trade policy I agree, with its
taxation policy, I agree. There is just one thing I would like added to it, and that is, the entire renovation of our
Parliamentary life and the thorough
cleansing of cleansing of the Augean stable of Cana-
dian politics, a thing which done by the citizens arousing themselves shaking free of party shackles and electing
to parliament men who will indeed repre .

Questions and Answers Miscellaneous.

Absence of Oestrum.
I have a five-year-old cow which fresh
ened in October She has not been in
season since. What do thon season since. What do you advise me
to do? been in season without being noticed About all that can be done is to allow cow and bull in yard for a while each thay may result in nature asserting herself.
Some have claimed that the administra. fion of 2 drams nux yomica three time danly has the desired effect by stimulating
the nervous system

Proposed Piano Purchase. $B$ at a certain price, no money beins with manuffacturing fer communicating the firm had no piano as described in one answering the description, provided A would pay $\$ 25$ more. The deal was called off as far as A and were concerned in the presence 1. Can firm hold A responsible for
order? A has also written the form ancelling the order.
2 Atter the order is signed, what is the
hmit of time if anv, allowed with cancellationn, allowed A to mako

When every day is worth hundreds of mor dollars $M_{\mathrm{a} \text { small fortune }}^{\text {ANY }}$ busy seasons on th farm. A LEONARD.HUBER Light Four Tractor will save you many.such days, each year.

The Leonard-Huber is fully guaranteed. Built by a firm possessing over 40 years experience. Runs on gasoline, kerosene or distillate. Has the finest cooling system yet devised. Turns in the radus of $51 / 2$. Has automo$41 / 4$ inch bore $\times 53 / 4$ inch stroke. Speed $21 / 2$ to 4 miles an

## hour. <br> LEONARD. <br> ${ }^{24}$ HUBER <br> Lisht Ton

12-24

Large front wheels mean easier travelling on soft ground, saving
steering. Has correct weight in próportion to draw sivers $12 \mathrm{H} . \mathrm{P}$. at the drawbar, 24 H . P. at the pulley. Cut oteel gear transmission, runs in oil bath; belt power is taken direct from the engine (no gears). Hyatt roiler bearings and Gurney ball bearings. Does the work of 6 horses and 3 men, turning an acre

Let us send you illustrated folder "Doing the
Helleontari it Sons
LONDON,
CANADA.

## INTERNATIONAL

Stock Food Tonic


## 3 FEEDS FOR 1 CENT

## Is a Wonderful Hog Tonic

K EEPS hogs thrifty, healthy and growing fast, by helping digestion feed. and assimilation it gets every dollar's worth of value out of the

A tablespoonful mixed in the regular feed for each two hogs will keen the appetite and give an added relish for all feed.

International Stock Food Tonic supplies in a concentrated form, ingredients hogs obtain when rooting on free range, and which art absolutely necessary to keep them in' a healthy and profitable condition.

By its use worms are destroyed and further development made impossible Just try International Stock Food Tonic on one batch of hogs. Youll be
Equally as good for cows and horses.
Sold by dealecrs everywhere package. or sure results.

## IITERMATIOMAL STOCK FOOD CO., LIIITEL TORONTO <br> ONTARIO

©ELMHURST LARGE ENGLISH BERKSHIRRS

Oak Lodge Yorkhires, Shorthorns wwiducilize

## day is dreds of dollars

ANY days are worth
a small fortune a small fortune in busy seasons on the ear.
rantèd. Built by a firm ce. Runs on gasoline, $51 / 2$ feet. Has automoame, 4 cylinder engine Speed $2 \frac{1}{3}$ to 4 miles an


12-24
travelling on soft ground,
in the furrow and tion to drawbar pull. De power is taken direct froem earings and Gurney ball nd 3 men, turning an acre
fithe farm. "Doing the Impossible."

Gy Sidy CANADA.

## 



3 FEEDS FOR 1 CEN

## Hog Tonic

ng fast, by helping digestion 's worth of value out of the
feed for each two hogs will $h$ for all feed.
lies, in a concentrated form, n free range, and which are development made imposisble. one batch of hogs. You'll be

March 13, 1919

## A Unique Holiday.

Edrroo "The Farmer's Advocate":
On the principle that change of work On the principle that change of work
is as restful as cessation of work, I rented is as farm on shares and took up congenial
my fan my form on
work in the city. The change was delight-
Of course, at first, accustomed to be wol. Of course, at first, accustomed to be
ful
all every day and alo ist to lose one's touch with nature,
bearings when place all of a sudden bearims whally different surroundings.
amidst One is dazzled by the general magnificence; the street cars, the shop windows, the crowds of people-all in their Sunday clothes, and apparenn electric lights and the hot and cold water ready to hand.
Life seems so luxurious. No wonder that the city casts a spell over our country boys and girls. There was even a sub-
dued pleasure opening up my old too dued pleasure opening ap arded when
chest which had been discated chest whicraning I was pleased to find,
took to farmin of the tools were rusted
that not all of that not all of the tools were rusted
though some of them were out of date. though some of them were out of date.
The holiday season came round and when the schools closed, I overheard when the schoors discussing their plans my granat they would do when they
and what the wountry." They talked
"went out to the "went out to the country". They talked of riding and fishing and shooting gophers
blisfully unconscious of the fact that "Grannie" was no longer on the farm. I caught their enthusiasm and decided to take the family back to the old place during the summer vacation. In my agreement with the lessee I had retained
the privilege of using the main portion of the farmhouse as a summer residence Thus it came about that I had the unique
experience of having a real holiday on experience of having a real holiday on my own farm. "the mind is its own place and can make a heaven of hell, a hell of and can, make a heave epresses the same
heaven." Tenyson
thuyght in Locksley Hall, and it is a thought in Locksley Hall, and it is a
truism to say that on the mind's attitude to external nature depends largely the beauty and pleasure derived from what
we see and hear. To the illiterate yoke the yellow primrose connotes nothing;
to a Wordsworth or a Robert Burns it is an inspiration. The want of cultured
leisure deprives the farmer of enjoving leisure deprives the farmer of enjoying
one of his richest assets. My month's holiday harvesting of an aftermath. I fell in love with and courted and caressed the nymphs and naiads that lured me into
my own woods and along the banks of my own stream. "prose" explained to him. When he grasped its meaning he exclaimed: "Why. I have been speaking prose all my life
and did not know it!'
$\mathrm{I}_{\mathrm{n}}$ my case it was poetry I had been living in the midst of all these years and for lack of op-
portunity I had failed to be conscious of its nearness. Shakespeare tells us that "the means, to do ill deeds makes ill deeds done.' to do good deeds and tro think beautiful
thoughts cultivate traits of character thoughts cultivate traits of character
that otherwise would have remained Of course I raked up some "dead
oys" when garnering my aftermath. This when garnering to be expected, for was I not wandering leisurely amidst the scenes
of strenuous effort, ambitions, hopes,
dot rawn into the depressing atmosphere of might-have-beens. I joined the children
in their in their heart-whole enjoyment of the present. They showed me more kinds of our groves. They took me to an lid hellow tree that for years had been the breeding place of a pair of eyeoldas. Something parent birds were flying around in a most xcited manner. And no wonder. The They dragged me over to the island of beavers building their winter quarters. to a favorite pool "far from the maddening It was Charles Lamb, I think, who roast sucking pig. The piggies had got
roasted by accident, owing to a shack having by accident, owing to a shack
Later burned to the ground. sucking pig and was arranging to have
another shack set on fire when a friend sucked him that one could get roast
I have pisco without burning the shack a month' .

# "Would you step on a cockroach-or would you refrain from staining the floor?"-Roosevelt 

THE "ethics" of business call for courtesy between competitors-and the "ethics" of adAfter observing the former truth in advertising. necessary to "step on" some of the false claims and untrue propaganda of several separator manufacturers in an attempt to preserve a semblance of "truth" in their advertising.

We owe it to the dairy people of this country to present the real facts regarding cream separators Propaganda based on the falsest of claims has been spread in an attempt to mislead American farmers. In presenting these facts, we stand ready to prove every assertion; they are based on actual records of dairy history.
Official records show that the first cream separa tor was invented by the French, and that patent No. 105,716 was granted to the company of FivesLille, of France, November 19, 1874, for a system fontinuous centrifugal separation. A little ater the Danes developed the cream separator and were the first to introduce cream separators into America. Four years later, in 1878, a Swedish concern took advantage of the French invention and built a cream separator.
Looking for American business, this concern con tracted with Mr. P. M. Sharples, an incentive genius of West Chester, Pa., to manufacture, install. and repair their machines in America. The first machines were decidedly impractical and unfitted for efficient use in American dairies and creameries
Mr . Sharples attempted for a few years to make of this foreign machine a satisfactory separator and during this time invented all the great improvements that have since been used by this type of machine. Among his invented improvements were the discs in the bowl, the splash olling system,
the detached spindle, the lowering of the supply tne detached spindle, the lowering of the supply can, and the concave bottom bowl, which permitted a part of the weight of the bowl to be suspended below the bearing. The complication of the machine, however, soon caused him to give up this manufacturing contract entirely, and, with true American ingenuity, he built a real American separator, adapted to American dairy needs and efficient machine.
The Sharples factories are the oldest and largest separator factories in America. They have always been entirely American-owned. During the thirty-
eight years of its existence, The Sharples Separato Company has mnaufactured more separators than any other factory in America, and the output of the Sharples factory to-day exceeds that of any other separator factory in the world. More Sharples machines are being sold than any other, and a much larger percentage of those sold are to-day in actua use.
Every American dairyman should know these facts, and has the right to, and should, on buying a machine, ask the following questions of any separator manufacturer:
'Will your separator skim clean and deliver a cream of even density at any speed at which it may be turned? Is the bowl free from troublesome discs or blades? Has the separator an entirely automatic oiling system, and do you guarantee your separator for durability to the extent that you guarantee a repair expense not to exceed $\$ 2.00$ per year?
'Is your separator built in American factories, by American manufacturers, by American labor, of American material, and entirely owned by Americans? Is it truly an American separator, encumbered by no suspicion of taint of Hun propaganda?
It is due to Mr. Sharples' untiring efforts during the thirty-eight years of his separator manufacturing experience-not to any foreign makers or in-ventors-that the American farmer owes the modern efficient cream separator. The Sharples Suction-feed Separator is the perfected machine all other separators are to-day where Sharples left off years ago-old style, bucket bowl, fixed feed machines.
We say, without fear of contradiction, that the modern Sharples Suction-feed Separator
-is the only separator in the world that skims clean and delivers a cream of even density at widely varying speeds;
is the only separator in the world with a controlled varying capacity;
-is the only separator in the world with a knee-low supply can, easy to fill;
is the only separator in the world with a perfect automatic splash oiling system, not a single oil cup;
-is the only separator in the world with a hollow tubular bowl-no discs to wash.
Write to-day for the complete Sharples Catalog on cream separators. Address Dept. 78.

## The Sharples Separator Co. <br> TORONTO, ONT <br> REGINA, SASK.

daily use



## Steel Rails

for Reinforcing Bridges
and Barn Driveways
JNO. J. GARTSHORE

Patent Solicitors - Fetherstonhaugh \& 8 Pashed firm. Patents everywhere. Head office:
Royal Bank Buildings, Toronto Ottowa
Omace: 5 Elgin St. Offeces throuĝtout Canada.

## Our School Department.

The Rural Teacher as a Leader.
by an admirer ó good schools A teacher in one of the counties in Central Ontario wanted a better school, especially with respect to grounds and to those things having to do with the com-
fort and health of the pupils. This fort and health of
teacher had a vision.
The first move she made was to ask to provide a fence along in front of the school. Now, the new idea is that fences in front of buildings are un-
necessary and costly. Moreover, this necessary and costly. Moreover, this
secretary stated that he attended that secretary stated that he attended that
very school himself and there was no fence then. Surely what was good enough for him should be good enough these children than their parents? Yes, of course, why should this very Secretary
use a self binder in his harvest field, riding around all day, instead of swinging a cradle as his father did? What was good enough for his father should be good was wise, she made no reply to the wisdom expressed by the Secretary, she adopted a wiser plan. She took a half-hour from some matters of improvement of grounds especially in front of the school building The pupils were asked if they would be willing to take part of the school time the following day to clean up in front and
around the building. Would they be around the building. a wheelbarrow, etc.? Yes, of course, they would, some one thing and some another, girls and boys all, and teacher too. It
might be hard work, would they be willing? Yes, certainly. To-morrow is to be a memorable day, we are going to do some school work out
don't forget the tools.
Next morning about 8.30 pupils began
to arrive one carrying a a rake, a third a wheelbarrow and so on They made some noise, no doubt. It
made the "kids" all laugh and play to made the "kids" all laugh and play to
see (not a lamb) but some tools at school When nine o'clock arrived and schoo so apparent that some extra effort was needed to keep this enthusiasm within bounds awaiting the time when business in the afternoon. What a long time to wait with so inspiring a prospect ahead! organized, one group to pick up the tin cans, brick, wire, etc., another to dig up
a portion of the bank to be levelled; a portion of the bank to be levelled;
another to make a flower bed; another to pick up the paper strewn around and so on. Hollows are filled up; the teacher craters or buffalo wallows. Knolls like little kopjes are levelled down and stones Ahout 4.30 the work, though not
entirely completed, was fairly well done, words of encouragement given to the pupils and a spirit of ownership and a new pride in their school. Woe to the intruder, man or beast, that tramples
on or otherwise destroys the work done The next move was a request by the to plow up part of the grounds for a he did not see what the teacher wanted
a school garden for, as his own children had all the garden work and more than they
could, or would, do at home. He point out that he could not get his childrento the weeding necessary in his own garde in inducing the same teacher suice at a garden in school. The to work answered this wisdom by asking if would object to her having part of grounds plowed and attempting the work Well no, he would not go so far as that, but was kind enough to warn the teacher failure. The school garden was plowed and
laid out. The pupils did the work laid out. The pupils did the work and
were always eager for the time to when atways eager for the time to cone hoeing, planting or weeding culty to get pupils to leave their dant in subjects so interesting as even grammar history or arithmetic, in order to work in the garden and learn about weeds, soils, transplanting,
The school was located on one of tb leading roads and those who paseet the began to note improvement no passed strewn about:-the Progress Club attend and a school garden at fower beds in front The next year a at the side. The next year a fence was built in front
and the teacher did not ask for $i$. and the teacher did not ask for it; new
closets were built at the suggestion of closets were built at the suggestion of tidy and clean-the Progress Club attended to that

The Secretary, however, was game and "came across." He is now one of those whose eye sparkles and whose face talkes car stop in front of the school to admire the improvemen In this same school they frequently have a hot meal at noon made part from the product of the garden. T school is certainly improved both insid

Tell Others How You Do It!
There are teachers in almost every inspectorate who have been outtstandingl successful in some particular branch of their agricultural work. Perhaps it was in connection with the school garden or in conducting a special fair at the school. We know of one teacher who breeder of live stock and there taught her lesson. In another instance a teacher dismissed school long enough for the children to go out to the road and guess the weight of a load of hogs that was
going to the shipping point. When the going to the shipping point. When the the actual weight. These are only, a few instances and we want teachers, who take an interest in agriculture, to write al short letter to this Department and give others the benefit of their experience

Do You Know The Birds A calendar appeared in Nature
Diary last week telling just when t watch for their return.

Get the parents in the section to tale an interest in the school garden, and beautifying the grounds. When this gratifying.
Plan now how the school grounds ca be improved and what should be plante Don't wait till spring

## artment.

r would, do at home. He point he could not get his children
ding necessary in his own gard then could the children succe




Spray, If You Want Good Crops.
C. P. Dry Powdered ARSENATE OF LEAD contains from 31 to 33 per cent Arsenic Oxide, and does the
work of twice the quantity of the paste material.
It kills the orchard pests every time-destroys
all leaf-eating insects-is easy to use-stays un all lea-eating insects is easy to use-stays in
suspension longer is more economical to ship PARIS GREEN for Potato bugs - C. P Arsenate of Lime (KALCIKILL)-C.P. BUG
O-CIDE are Insecticides that give results

Ask your dealer for the C.P. brands $d$ wrile us for our Spraying Booklel. THE CANADA PAINT CO., Limited, and EI EPP ANT CRANADA PAINT 572 willam Streot, Montroal.
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## 1919 Co-Operative Wool Sales

## Ontario Sheep Breeders-Market your Wool this year through the Provincial Association Sale at Guelph

## PAST RESULTS

In 1917, the first year that wool was sold through the Association, some 300,000 pounds were sold from 1,416 shippers, at record prices for Ontario.

In 1918, over 750,000 pounds were sold, from 3,845 shippers, again at record prices, as shown by table below. It will be noted that all grades of wool, includ ing rejects and tags, averaged net to the seller (not including freight and membership) $651 / 2 \mathrm{c}$. per pound. All grades (excepting rejects and tags) averaged $681 / \mathrm{c}$. per pound. Al grades (except tags, rejects and 100,000 pounds of coarse wool)
averaged 70 c . per pound. averaged 70 c . per pound.

For 1919-Let us double the figure again and make it $1,500,000$ pounds

> A World-wide Market As this wool will be sold through the world-wide facilities of the Canadian Co-operative Wool Growers' Limited, which in 1918 sold $41 / 2$ million pounds of Canadian wool for the various Provincial associations, the large and effective selling mad chinery at the disposal of the Ontario wool grower who ships his wool to the Ontario Sheep Breeders? Association at Guelph; will be readily noted.

| Grades of Ontario wool | $\begin{gathered} \text { American } \\ \text { fixed } \\ \text { prices on } \\ \text { scoured } \\ \text { basis } \end{gathered}$ | Estimated average per cent. sha of Ont. wool |  | Selling price obtained by growers | $\|$Net price <br> to Ontario <br> wool <br> growers <br> with $31 / 2 \%$ <br> selling <br> charges <br> deducted |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Med. Combing Low Med Combing Low Combing.... Coarse Combing. | $\begin{aligned} & \$ 1.40 \\ & 1.37 \\ & 1.28 \\ & 1.17 \\ & 1.07 \end{aligned}$ | $\begin{aligned} & 47 \% \\ & 46 \% \\ & 44 \% \\ & 44 \% \\ & 44 \% \\ & 4414 \% \end{aligned}$ | $\begin{aligned} & 74.2 \mathrm{c} . \\ & 73.2 \mathrm{c} . \\ & 71.04 \mathrm{c} \\ & 655.52 \mathrm{c} . \\ & 59.65 \mathrm{c} . \end{aligned}$ | $\begin{aligned} & 761 / 4 \mathrm{c} . \\ & 731 / 2 \mathrm{c} . \\ & 731 / 4 \mathrm{c} . \\ & 67 \mathrm{c} . \\ & 603 / 4 \mathrm{c} . \end{aligned}$ | $\begin{aligned} & \text { 74c. } \\ & \text { 71c. } \\ & \text { 71c. } \\ & \text { 65c. } \\ & \text { 59c. } \end{aligned}$ |

## What the Selling of Wool According to Grade Means.

It is true that where buyers gave a flat price for wool, the growers of coarse As will be readily seen, however, any average price deaid for would warrant must be such that the loss on a lower grade of article must be made up by a profit on a higher grade. Therefore, it is evident that the growers of fine wool in selling at a flat price, sacrificed a certain portion of the true value of thei wool in order that the growers of coarse wool might receive a price higher than
their grade of wool would warrant.

The co-operative selling of woi
The co-operative selling of wool by grades is intended to. put the .wool trade
on a proper basis and give eacth grade its true market value. It thould more-
over be borne in mind by the wool grower that co-aperation price of wool up to a level which it could that co-operation has brought the not been employed, and herein lies the secret have attained if co-operation had by some buyers had to be somewhat above the true market value of coarse woi. greater weight of coarse wool flecess in in comparison of coarse wool benefits by

The first and primary object of selli be kept in mind and that is, that all wool shall be properly graded according to the growers of wool shall receive the true market valde upon its merits and that when this object thas seen accomplished will the marketing of wool be on a satisfactory basis. It is, therefore, evident that the principle underlying co-operative
marketing of wool, is sound and beneficial to growers and it is to the benefit to stand together and sell their wool on a graded basis through their own
Provincial Association Provincial Association.

The development and prosperity of the industry depends entirely upon the this united effort, it is clear that if every sheep raiser in the province obtain member of the Ontario Sheep Breeders' Association, the best results could be
accomplished. This Association through its officers and directors have accomplished. This Association through its officers and directors have in-
fluenced legislation for the protection of sheep and are constantly endeavoring to protect the sheep owner and this is why a small membership fee is deducted
from each shipper's returns for his wool)

FILL IN THIS COUPON-CLIP IT OUT-AND MAI - - -

-     -         -             -                 -                     -                         - 

Mail it to your District Representative or to R. W. Wade, Secre-
ary, Ontario Sheep Breeders' Association, Parliament Buildings, Tor
onto.
Dear Sirs-Please send me Apylication Form for Ontario Sheep Breeders'

Plan Under Which Wool Will be Marketed by the Ontario Sheop Breeders'. Association, for 1919.
Application Forms may be obtained from the Representative of the Department of Agriculture in your county or from the Secretary's office, Parlie ment Buildings, Toronto, and should be filled in and returned at as early a da
as possible. 2. Wool will be receive
May 1st and July 15th, 1919. 3. 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 carese with sie or ordinary binder twine, and avoid tying with neck portion. The dung loct should be placed in a separate sack from the fleeces.
4. The fleeces should then be packed in wool sacks, or in case of small
shipments of 15 fleeces or less use ordinary jute shipments of 15 fleeces or less use ordinary jute bran sacks, being certain the W. Wach shippers wool is to be sent transportation charges collect, to R.W Wade, Winter Fair Buildings, Guelph, Ontario
wool is graded, this cheque will re sent to each shipper immediately after the value of the wool, less a margin to cover freight membership handling and after the comp. A cheque for the balance due each shipper will be sent as soon pletion of sale as possible.
For those having 15 flees will be deducted from proceeds of wool as follows $\$ 1.00$. The latter class of Members will be supplied with wool sacks, and all shippers supplied with paper wool twine after they make application.

The shipper is assured of the highest price obtainable in the world's markets less only the following expenses:

Selling charges by the Canadian Co-operative Wool Growers' Limited
These selling charges are actual costs only but cannot be stated exactly at this time. Last year they amounted to $11 / 4 \mathrm{c}$. per lb . Any shipper can find ut what they are likely to be, however, by writing to his District Representa
2. Transportation charges to Guelph.
3. Membership Fee to the Ontario Sheep Breeders' Association twine, labor, etc., which will all amount approximately supplies, printing, sacks, In sections where a number of shippers can combine their shipmente in siding direct to the Winter Fair Building, Guelph. air Building, Guelph
The Directors of the Ontario Sheep Breeders' Association are: Ma. Brien, Ridgetown; James Douglas, Caledonia; E. Robson, Denfield; J. E. Cousin, Harriston; W. H. Beattie, Wilton Grove; Cecil Stopps, Leamington; George L. Telfer, Paris; James Bowman, Guelph; h. ... ee, Highgate; W. Whitelaw, Guelph; J. W. Springstead, Abing. W. We Officers are President, George L. Telfer, Paris; Secretary, R. W. Wade, Parliament Buildings, Toronto, Ont.

THE ONTARIO
Department of Agriculture HON. GEO. S. HENRY Minister of Agriculture


Parliament Buildings TORONTO


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