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## Louden Barn Equipments






# The Farmer's Advocate Home Magazine 

## EDITORIAL.

It pays to be kind to the milk cow
Give the colt plenty of exercise and get him used to having his feet handled.

The regular use of the currycomb keeps the stock riftier during the winter

Regular hours for feeding all classes of stock are essential for maximum profits.

Secure the supply of seed grain early. It may be difficult to get good, clean seed in the spring.

Some clover or alfalfa hay, and roots are excellent
for the sheep at this time. A few oats would be relished also.

Don't forget the New Year resolutions. Sometimes they amount to something, but often the good ones die young; however, raise them if you can.

By the way, did you ever stop to consider that if the wife helps with the milking, it is only fair that you should wash the dishes and pails occasionally?

President Wilson's last note has them all thinking. He ware fighting for. Next he

Your presence and influence will aid in making Short Course in your County a success It is just possible you might derive some benefit by attending.

Conventions and meetings are now the order of the day. When the opportunity offers don't neglect to attend some of them. There is good in all things,

Don't neglect to have a supply of split wood on hand and place some of it in the wood box before going at work.

Is the manure piling up in the barnyard or is it being hauled to the field? Think over the pros and cons of the different methôds of handling manure and apply your ideas.

Make the boy a present of a calf or a pig and let him see what profit he can make. Charge the feed to his account, but allow him to have the surplus when the animal is sold.

Fighting for the Empire, making munitions, and producing foodstuffs are the three branches of the foremost business of the present time. There are many, not over busy, who might be doing one of these.

Neglect to store a supply of ice may result in loss of milk, meat and fruit, besides causing a lot of in convenience during July and August. January is he season for harvesting the ice crop.

Give the boy an idea of the value of money. One way to do it is to make him responsible for certain branches of the farm work. The farm on a partnership basis relieves father of certain work and encourages the boy
to do his best.

## The Result of a Consistent Live-

 Stock TheoryWhile farmers quite generally this past fall were lamenting the shortage of feed for live stock and in many cases showing such extreme sympathy for others and coarse grains, as well as their cattle, we happened on to a certain farmer's holding who had threshed over 1,200 bushels of grain when the average throughout his county was between 300 and 600 bushels. This particular farmer is widely known as a steer feeder of considerable skill, and the practice for many years of building up his farm with manure from the stable and feed lot seemed to exonerate itself when the test came. Other farming policies might have contributed somewhat to the success of this man in a very bad season. However, it was encouraging to talk with one who apparently was prepared to do business as usual and who was doing business as usual by purchasng his feeder cattle for this winter's operations. Had he been so minded, he might have sold those 1,200 bushels of grain, or a part thereof, a large quantity or hay and considerable straw and settled down to a quiet winter beside the stove with a good bank account and some change in his pocket. But that would not be farming. The owner of 100 acres or more must look to the future just as a business concern will invest its aridends in equipment or improvement of the plant. hrun-down farm makes a poor home and a very bad business proposition. We must give value for value, and anyone who continues to sell the product of the land wiquidation. liquidation.
There is a limit, of course, to the number of live stock that can be maintained per acre, but the diffithan the latter ase which result from overstocking. In the any greate the condition is easily remedied without children loss, bure a man's enidren, and his children's children may suffer in consequence. There seems to be something in humus and fertilty that will ward of worm and bettle, blight strong Stronge These are the tirmes when such should be remembered, and sell grain and sell grain and fodder. Years ago it used to be a cormingon saying that any fool can farm", but that farming consisted in depleting fertile soil procured at practength and ferility strength and fertility of our land is no fool's job.

## Learn to Express Your Ideas.

- To be able to express ideas in a clear, concise manner is a valuable asset to any man. To-day many good in are prevented from serving their communities Our public way because they cannot express themselves. our country needs men with ideas and sound principles men micipal work and parliamentary affairs. Young men of to-day will be the leaders of to-morrow, and it of their duty to fit themselves to manage the affairs are a country. The debating club and literary society of a training school for quick thinking and expression meught. In every rural community the young men and women have a golden opportunity if they all but grasp it. True, it may be hard work to organize debating club and harder work still to stand before a crowd and express your views, but nothing really worth while was ever accomplished without a supreme ert. Practice is essential in order to become proficient as a platform speaker. Recently our attention were drawn to several young men who, two years ago opporturd of their own voices, but by accepting every pey and to give addresse they are to-day able to give expression to their thoughts
in a clear, forceful manner, and are destined to become leaders in their communities. What some young men have done, others can do. If there is no debating society in your locality, why not get the young people together and organize one? This is the young man's age, and he must prepare himself to meet the responsibilities which will be thrust upon his shoulders.


## The Need of the Hour.

The time and opportunity has come for all true Canadians to throw their efforts and their wealth into the balance in behalf of the Empire. All cannot go overseas, and the country could not spare them if they would, but there are munitions and still more munitions needed to blast the Huns from their fastnesses in Belgium, Northern France, and the long battlefronts of Europe. Food, too, is almost as important as munitions, and Canada, not any too soon, is beginning to reafize that some organization is necessary to provide these three great essentials to the success of our armies namely, men, munitions and food. The representatives from this Dominion have done nobly at the front and more like them are required, but it is felt that while those who have left their homes to undergo the hardtheir of the fercest war in history, the man-power of their country is not practicing team work, or lending is human support that it could and should. There or human energy all around us either being thrown away or expended on some line of endeavor that has no direct country Whe war, or the financial stability of this country. When nations engaged in this struggle have seen fit to conscript life, we should at least be willing, leave in cause, to eave in suspension for a time those pursuits which be carrien unimportant, or can be carried on quite as well by women, and, with permaent peace as our objective, to direct our energies in fighting unels that will feed the millions of soldiers fighting under the banners of our Allies and furnish them with the accoutrements of war that will hasten the lay when Germany will be obliged to earnestly sue for eace.
The supreme effort in behalf of home and country is to don the khaki and meet the obligations which it incurs. The next loyal act is to volunteer our service of the nation where the ourselves in the fields or factories feed and fighting are produced men who are doing the actual Scheme" will goduced. How far the "National Service Scheme will go towards this end will depend upon those who have undertaken the work, and the response of the Canadian people. As it is now some have left home, business and binding duties and risked all, while concerned than if more for the cause and are no more concerned than if a bolt of lightning had destroyed some farmer's barn in Europe and perhaps killed one and real work, in the are doing wonderful work, men are selling the munition factories, while some men are selling neckties. A more logical system, directing human effort, would take the able-bodied women, girls and is business of corys behind the counters. Business pursuit are of course, and those trained in a certain but there is a big buin anate to bring this war to susiness now on hand and that is Entente Allies ar the a successfur conclusion for the the country over have the country over, have made wonderful sacrifices, and is for more moun will not do ber lood, and Canada will not do her best until we get things working on an Agricultural
eason if more production will not be up to par next season if more labor is not available. When a man

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omething for the cause in the munition factory or on the farm. There are great opportunities through the latter channel to expend some energy for the benefit of man kind during this period of a world-wide food shor kee this in mind for 1917 . Those who have amassed and are still accumulating wealth must contribute to the funds; human effort must be so directed that our factorie may yield the greatest possible production, and the an abundance of food to bourish the soldiers in the trenches and the people of the United Kingdom, who are now working hard in the humming mills of Britain

## Attend Agricultural Meetings.

## rer

 time to meet together to discuss problems of interest. In many localities the annual Farmers' Institute o Board of Agriculture meetings are the only events which draw the members of the rural community to-gether for educational purposes during the entire year Sometimes this is varied by a two-days stock judging course, a seed or a fruit meeting. The speaker provided by the Department, sometimes has things his own way, but there are localities in which the farmers it should be. It is one of the best means of securing information. Every man has an idea, and in many instances it assists the ncighbor in his work when he knows about it, and it does the other fellow no harm a class, carefully guard any new method they evolve for fear the neighbors might excel them. Jealousies of this kind are bad for a neighthorhood; it is a very
selfish spirit, and we know that it does not exist in all selfish spirit, and we know that it does not exist in all
localities. (One mecting a year is not sufficient. There are problems enough confronting the average farmer to
furnish topices for discussion for many evenings during furnish topics for discussion for many evenings during
the winter. It is not essential that farm subjects be constantly adhered to; cconomic topics mighit profit ably be introduced. At many such meetings which
we have attended there was a noticeable absence of we have attended there was a noticeable absence of
young men, and, on making enquiries, it was found
that the yound men did not consider the meetings of sufficient interest to warrant them attending. Is it not possible to have a program that will attract the young people? A two-days stock judging course was recently held in a community and one father stated that he had difficulty in persuading his two sons attend. However, they had not been in the building very long when it was noticed that they were taking a keen interest in what the speaker was saying. There was no difficulty in getting these two youg wome attend the following day, and ther in extent that of the farm problems was aroused to such an excinture They have since become ardent stodd of agricure The young men and boys shald the ${ }^{\prime}$ and take part Institute made the special aranger har be special for the placings in judging oats and giring reasons for hag another year the speaker ga rif al or had the boys prest which he had with him. Needless to say, the aso Wer inter The Farmers in attendance at the institute Meet gs. The Farmers Club and Literary Society in which the M...bers meet regularly once or twice a month, are training school for future leaders, and many of the prominent busines mento-day owe part at ed or If ing they received at their local debating chub. He there munity, er take a all that the spearoran. wat an agree the a remark or hint dropped during the meeting that can be put to good use who have not been in the habit of attending these meetings in the past, should plan to do so this year and take the boys along

## Nature's Diary

If in the wood-lot there arecomparatively large, open spaces in which grass and other herbs have obtained a
hold, these places should be disk harrowed just before hold, these places should be disk harrowed just betore
the seed is about to fall from such species of trees as it is desired to stock with. If there are no large seed trees of desirable species at the margins of the openings, seed should be gathered and sown. It is important to see openings.
When
When logging operations are under way in the woodfot it is very important to see that such operations make


In all logging operations the proper disposal of brush is important. All tops and branches should be piled and burned in the winter. They should be burned onenings,
piles, and these should be located in the largest opening piles, and these should be located in the largest openings,
which are sufficiently close at hand, so that the flames which are sufficiently close at hand, so trees. Proper brush disposal not only reduces danger from fire to a minimum, but provides good condition for the growth of young trees. eventually yield far greater returns if under timber than from attempts to grow other crops on them. Such areas are pieces of rocky land, wet land, steep hillsides, and sandy knolls. Not only do such areas when re-wind-breaks, and it has been conclusively show that the protection afforded by a wind-break increases the yield in farm crops to the extent of the value of the crop which could be grown on a strip three times as wide as the height of the trees.
We have now dealt briefly with the main things which have to be considered in the general management of the farm wood-lot. Every wood-lot presents particular problems of its own, and no general statements can
be made which will cover all cases. I shall be glad, howbe made which will cover all cases. Iesard to the manageever, to give such advice as I can in regard to the manage-
ment of any wood-lot if the owner will send a detailed ment of any wod- statement of the condion of the lot to the Farmer's Advocate. Such a statement should include the following data: the part of the country in which the wood-lot is situated; kind of soil, whether wet or dry; kind of stand-uneven-aged, or even-aged-open or thickly
stocked; and should be accompanied by a cross-section diagram of a typical section of the lot, made as shown in diagram, Such diagram can be prepared better in winter the tips of the branches should be drawn.
In the illustration I have indicated the trees which should be removed by a line across their base. In it the Dogwoods should be cut as they are interfering
with Maple Seedlings beneath them, and the same is with Maple Seedlings beneath them, and the same is
true of the Ironwood. The Paper Birch is dying and should be removed. The Beech is supressing Sugar Maples 2 and 3 . Sugar Maple 4 is supressing White
Pines 1 and 2, and the Poplar is suppressing White Pine 1 Pines 1 and 2, and the Poplar is suppressing White Pine 1. The White Oak has reached about its full growth and is
suppressing White Pines 3 and 4. Sugar Maple 7 is suppressing White Pines 3 and 4 . Sugar Maple 7 is
dead at the top and is hindering Maples 5 and 6. The

## THE HORSE.

## The Horse's Coat

The general appearance and comfort of a horse is greaty influenced by his coat. A well-groomed horse, like
well-rroomed man or woman is is rileasant to look
 evidence of care or neglect, as the case may to the horse's neneral appearance, it requires a great deal of attention to keep it thus, especially during the late fall and winter months. Some horses have, naturally, much finer and shorter coats than others, and, while breeding has some
influence in this respect, we frequently notice a vast influence in this respect, we frequently notice a vast difference in animals
of the same breeding. Why this is we cannot determine, and are
simply compelled to accept it as a fact.
The age of the animal has an influence: we notice that it is not the coat of a quite young or very old horse in as fine a condition as that of an animal
between adulthoodand between adulthoodand
old age. Horses under five or over twenty do not usually give the same returns for care
and attention, as reand attention, as re-
gards coat, as do those between these ages. In the former cases it may be that the more tate of the system, consequent upon den-
ition, has an influence
stand. If the timber is not cut by the owner himself, all
trees which are to be cut should be marked and a trees which are to be cut should be marked, and a careful cut. It is unwise to allow only the good, sound trees of desirable species to be cut; the diseased and dying tree shoutd ee taken and also trees of inferior species. To induce the purchaser to take inferior trees it will probably be necessary to make some concessions in regard to
price, but the loss from such concessions will be mor than repaid by the improvement of the remaining stand In felling trees, care should be taken not to throw them into the midst of a group of promising young trees which exercised in dragging logs out of the bush, so that a unnecessary breakage and trampling may, be avoided
Many choppers clear the so-called "brush" from a far Many choppers clear the so-called "brush" from a far
larger area round the tree they are about to fell than is really necessary, thus destroying many young trees of desirable species, young trees which have already made several years' growth, and which would, in a comparative-
ly short time, take the place of the one which is felled
upon the coat, and in the latter case, we we probably are
justified in assuming that the general vitality of justified in assuming that the general vitality of
the animal is more or less impaired, and the coat, as well as other parts of the body, evidence this decrease in vitality. We frequently hear people say that they "do not like grey or white horses, as they are so hard to keep clean." A grey horse is no harder to "keep clean"
than a dark colored one, but dirt or stains show more readily, and it requires more attention to keep him "looking clean." We often notice, when a team consists of a grey and a dark-colored horse, and when care is taken
to keep them looking well, that on close to keep them looking well, that on close examination the from the fact that stains, etc., show so plainly on him that he receives more grooming. During the summer months there is little trouble experienced in keeping a horse'scoat looking nice, but as the weather becomes cold
in the fall nature demands that the horse be clothed accordingly and there is a strong tendency to clothed hair, and we may say that "the coat loses its gloss in hair, and we may say that "the coat loses its gloss in
proportion to the length of hair." In order, then, that
we may retain the required gloss, we must take what measures we can to prevent this growth. In order to
do this we must, in addition to regular grooming, avoid unnecessary exposure, and when exposure is necessary motion. As artifial protection when the animal is not in horoughly groomed twice daily; not merely the ex ternal surface of the poat brushed and rubbed, but the hair thoroughly agitated to the roots by working the
comb or brush both with and against the grain of the hair, in order to remove dust, dandruff, etc., and thereby prevent any occlusion of the openings of the sweat glands and keep the coat free from dust. Whenever o cause perspiration, it would be well to rub him unt dry. This is the manner in which race horses are treated, and a well-cared-for race horse certainly presents a fine average stable. It, however, is not practicable in the average horse owner could afford, or is willing to keep The next best thing to do is to clothe him warmly, place him in a comfortable stall, excluded from drafts, and when his blanket has become moist with perspiration thoroughly dry, a good grooming will remove the dried perspiration, free the matted hair, and remove all dirt and dust. Of course, horses must not be left out in the fields or paddocks at night, when the weather is liable dvisability of wearing clothing in the stable is open to advisability of wearing clothing in the stable is open to
discussion, but if the stable be not quite comfortable we think that blankets should be worn, and even in warm stables light clothing should be worn as it tends to prevent dust entering the coat. In all cases in cold weather
when the animal is not in action, whether standing in the when the animal is not in action, whether standing in the stothed sufficiently to protect him from cold and wind, and when it is necessary to work or drive a horse in rain or snow storm, it is well to have him covered with a
waterproof covering, in order to keep the skin dry and waterproof covering, in order to keep the skin dry and
warm. Cold and dampness stimulate the growth of hair, in order to protect the skin, hence, when we are particular about the coat we must endeavor to avoid
this stimulation. When horses are being used for slow this stimulation. When horses are being used for slow
work, not demanding sufficient exercise to cause perspirafion, in very cold but dry weather, it is wise to wear blankets under the harness to protect the skin. In most cases, where reasonable care is exercised on the lines
above mentioned, we will succeed in maintaining short, above mentioned, we will succeed in maintaining short sleek coats on our horses, but there are exceptions
As stated "age has an influence," and there are certain As stated age has an infuence, and there are certain
individuals that from some unaccountable reason or pre disposition, will grow long coats, not withstanding the most preventing long coats is to clip. preventing long coats is to clip.

## LIVE STOCK.

England's Smithfield Show. quite as good as many of its predecessors, although the classification was cut down. Even if the entries were fewer the quality was fully maintained, for it was obvious
that exhibitors had, for the most part, sent of their best. The value of the prizes, etc., amounted to of their best prising $£ 1,141$ for cattle, $£ 637$ for sheep, $£ 303$ for pigs $\varsigma 191$ for the carcass competition, $£ 150$ for feeders of first-prize animals, and $£ 87$ for table poultry A comparative list of entries since 1913 is as follows


The King was again a successful exhibitor, taking the breed medals for Shorthorns and Herefords with as fine bullocks of their respective types as have been ex-
hibited for many years. His. Majesty also won two first prizes, a second and a third for Herefords, a first from Windsor. The Sandringham exhibits also did well, winning two firsts, a third, and the breed medal in the Highland classes, two firsts and a breed medal in the Dexter classes, a cross-bred classes. The King won second the small cross-bred classes. The King won second
prize for Southdown wethers and a first, second and prize for Sourhire figs.
For the third time in his career J. J. Cridlan won the
cattle championship with an Aberdeens cattle championship with an Ab
bought at Alford in Banffshire.
The Prince of Wales' Cup was awarded to a prime pen of Southdown wethers, shown by the Duke of Richmond and Gordon. In good classes of pigs J. Fricker took the champion plate with Berkshires, and the best
single pig was a Large White belonging to E. Wherry. A full return of the championships is-set out below:

## Cattle.

Champion Plate of 100 guineas for best beast in the Nhow: J. J. Cridlan, Maisemore Park, Gloucester, on serve, H. M. the King, on Gay Boy, a Hereford two-
year-old seer year-old steer.
Best Steer in the Show, not exceeding two years old: a Shorthorn yearling shown by J. \& G. Young; reserve,
Lord Fitzhardinge, Berkeley Castle, Gloucestershire, on Tom, a yearling cross-bred.
old, J. F. Cummings, Aberlour, Banffshing two years old, J. F. Cummings, Aberlour, Banffshire, on Enamour
2nd, a Shorthorn yearling; reserve, Edward A. Wigan,

Andover, on Syringa Conholt, an Aberdeen-Angus Best Steer or Ox in the classes: J. J. Cridlan Maise-
more Park, Gloucester, on Neraska; reserve, H. M. the more Park, Gloucester, on Neraska; reserve, H. M. the
King, on Gay Boy.
The King's Challenge Cup, presented by the late King Edward, for the best beast in the Show, bred by the exhibitor: the King, on Gay Boy; reserve, the King, on Carol, a Shorthorn two-year-old steer.

Sheep.
Gold Medal to the exhibitor of the best pen of three long-woolled sheep or lambs in the Show: R. F. Jordan,
Driffeld (Leicesters); reserve, W. M. Curzon-Herrick Drifneld (Leicesters); reserve, W. M. Curzon-Herrick,
Loughborough (Leicesters).


Irade.

## hampion Percheron Stallion at Guel Winter Fair. Exhbited by T-D. Elliott, Bolton,

 Gowolled the exhibitor of the best pen of three Show. The heaviest in hisclass was Yorkshireman, exhibit, nd $\begin{gathered}\text { nordon, } \\ \text { end }\end{gathered}$The Prince of Wales' Perpetual Challenge Cup for the best pen of three sheep or lambs in the Show, bred by the downs); reserve, James H. Ismay (Hampshire Downs)


Getting a Feed of Charcoal.

Champion plate to the exhibitor of the best pen o wo pigs in the Show: Julius Fricker, Wincanton (Large Black). . pig in the Medallion to the exhibitor of the best single Lincolnshire (Large White); reserve, H. M. the King (Berkshire).

## Quality Throughout

Quality was written largely over the Aberdeen
fell to J. F. Cumming, Aberlour, Scotland, for his yearponding distinction at the Scottish National Show in ponding dirg
Two-year-old steers were led by Mr. Cridlan's Neraska, scaling 17 cwt 2 qr . 11 lb . at two years and prize to Enamour 2nd. Ultimately before a different panel of judges he was awarded the supreme championship of the Show, a thing which puzzled the quakers
round the fence rail ound the fence rail.
The King was the chief exhibitor in Highlanders.
His Majesty secured His Majesty secured two firsts and a third. The win-
ning steer above three years old scaled 18 cwt . 2 qr .24 ning steer above three years old scaled 18 cwt . 2 qr . 24
lbs. at three years and seven months old, and took the s. old, and took the
breed prize. The
King won the Hereford breed medal a steer called Gay Boy. This was a
splendid sort, turning the scales at 17 cwt. 1 qr. 23 lbs. at just under two years and nine monthsfull of quality Sir J. R. Cotterell and other winners in The premier Shorthorn was the King's two - year-
old, white steer old, white steer,
Carol, true, very
big, but in spite of his 18 cwt . 1 qr. 8
lbs. a neat sort and shapely in build,
withagood, lengthy witha good, lengthy back, deep body,
and splendid quar-
ters. He not only won in his class,
but was voted genbut was voted gen-
erally as good for
the supreme the supreme cham-
pionship, but the
udges for that honor lost sight of ago he carried off yearling in the ed by Capt. Clive Behrens, of Malton; SwintonSatire, ata couple of weeks under three years old, turning the -scale
at 19 cwt. 1 qr. 20 lbs., and well covered with flesh. Best at $19 \mathrm{cwt} .1 \mathrm{qr} 20 \mathrm{lbs} .,$. and well covered with flesh. Best
of the yearling steers was a roan from north of the T of the yearling steers was a roan from north of the Tweed of substance, weighing 14 cwt .3 qr .24 lbs . at a week below the age limit. He was first in his classat Edinnurgh. Yearling heifers were led by Col. Archibald Stirling's Keir Dora, the youngest animal in her class, beautifullly
turned, and carrying a considerable weight of flesh for her age. A Yorkshire exhibit-sent by J. M. Strickland,
Easingwold-was second. Brandsby's Jinny- 19th was Easingwold-was second. Brandsby's Jinny- 19th was
a capital butcher's beast, weighing 11 cwt .3 gr .7 lbs . a capital butcher's beast, weighing $11 \mathrm{cwt}$.3 gr .
at a year and nine months. In two-year-old heifers, that great expert, J. Deane Willis, Bapton Manor, won and was reserve for breed prize with a very fine red and white, not only massive in appearance, scaling 15 cwt .
2 qr . 12 lbs . at two years and eleven months, but weil 2 qr. 12 lbs. at two years and eleven months, but well liked by not a few for actual championship, but Cridlan with Neraska gained that honor, and so in 48 tries the Angus won 17 times; S .

I am told, J. H. Truman, of Whittlesea, England, and head of the Bushnell firm, has bought Cridlan's of the animal to adorn the walls of the Saddle and sirloin Club, Chicago.

Albion.
Pigs Require Charcoal or Similar Material.
When pigs are on free range, it is frequently noticed that they search around for bits of charcoal, rottensmall' porker industriously gnawing the charred material from a burned stump. What a pig likes is usually good for him, and to withhold this material usually increases the cost of production of pork. When pigs are kept in confinement they often show a strong craving
for what some term unnatural substances However in order to develop the body, these substances are necessary or else the pig would not want them. Char coal, ashes, rotten wood, etc., are greedily devoured by pigs constantly confined to the pen. Charcoal can
be made on the farm, or it can be purchased at small cost and may be profitably fed to young pigs in particular It may be powdered and mixed with the feed, or, better still, fed in a separate compartment or self-feeder, so that the pig can feed at will. At the Maryland Experimen Station, tests were made to determine the value of various
materials of the nature mentioned Four groups of pigs eleven weeks old were used in the test, and al were fed a meal mixture composed of cornmeal, wheat
middlings, wheat bran and linseed meal. The results
given in Productive Swine Husbandry, are to the
effect that lot one, which had free access to soft coal, made 100 pounds gain in weight, at a total cost of 86.15. .
Lot two had free access to charcoal and 100 pounds gain was made at a cost of $\$ 5.56, \$ 5.42$ of which was for meal and 14 c. for charcoal. These pigs made an average daily gain of .738 pound, while the lot fed soft coal gained
695 pound. Lot three was fed one ounce of tonic, made up of wood charcoal 1 pound; sulphur 1 pound; common salt 2 pounds; soda 2 pounds; sodium hyposulphite ${ }^{2}$ pounds. sodium sulphate 1 pound; back antimony
1 pound, to every ten pounds of meal. These pigs made the largest gain it being 958 of a pound per day, at a
total cost of $\$ 4.55$. The fourth lot received nothing but meal and their average daily gain was. 614 and the
cost for meal alone was $\$ 5.84$, for each 100 pounds of gain. The lot fed soft coal made a higher average gain than the pen receiving meal only, but it cost more to produce the meat. The results of this experiment how that correctives may be prontably fed, and that before growing pigs at all times. Some of the grains which are commonly fed to hogs
do not contain sufficient ash to furnish the mineral do not contain sufficient anh to furnish This is paricularly the case with winter pigs. They art not arth
oo secure ashes, mortar or limestone from the earth, so naturally they do not develop as rapidly as summer pigs which have access to a yard. This can be par-
ially overcome by feeding the materials mentioned ially overcome by feeding the materials mentioned fall, to feed the young pigs during the winter; others all, theed the young pigs during the winter; others
carry the loose dirt, which is brought in the eroot house on the roots, to the pigs. Anyone who has watched a bunch work in this dirt or sod, would readilly be
convinced that material of that nature is required by the hogs. Too many fail to supply these necessarie which cost very little, and are therefore forced to feed a larger quantity of high-priced feeds and yet their porkers do not thrive as they would like to see them
Get a little charcoal for the pigs and see what effect Iet a little charcoal for the pigs and see what effec
it will have upon them.

Some Winners in the Hog-Feeding Competitions.
The Ontario Department of Agriculture, through is District Representatives conducted twenty-sil
feeding-hogs-for-profit $\begin{gathered}\text { compet itions, } \\ \text { during } \\ \text { 1916 }\end{gathered}$ Teeding-hogs-Dor-profit compertions, duve taken the
These are open to young men who have
four-weeks courses in agriculture, conducted by the four-weeks courses in agriculture, conducted by the
District Representatives. The prize is the Short Course it hive stock and seed ludging at the Ontario portation, board and lodging are included. Thirty (wo young men will take the Short Course at Cult
this month at the expense of the Department. a value of $\$ 4.00$ each was placed on them at that ant Contestants were allowed to feed four and select the
best three at the end of the competition. They were kept of the amount of feed used each week. The feed was valued per ton as follows: ground oats, $\$ 25$;ground barley, $\$ 25$; ground peas, $\$ 3.5$; ground rye, 828 ; ground wheat
$\$ 35 ;$ bran $\$ 23$; low-grade flour or red dog, 832 ; short: $\$$ or middlings, $\$ 25$; tankage, $\$ 16 ;$ green feed, $\$ 2$; skimwas a part of the ration, seventy-ive cents was charged to each- hog. In estimating the profit the value of the cents per pound . The prizo wise was taken at Th cents per pound The prize was awarded hy taking into
consideration both the profit and the type, fifty per cent. The hogs showing the greatest profit were Yorkshire and Addington. The Civerage (o. Taytor, of tennox was $\$ 11.11$; their average value was $\$ 27$. 4s, and the average profit, $\$ 16.37$ Hernan F. Hocy of Durlam
County, fed a Berkshire-and-Tamworth realized an average profit of $\$ 16.23$. The average

 average value, and 812.92 the avcrage crist of production
Five winners showed a profit anove 815 , and the lowes

THE FARM.
Flour From the Lower Grades of Wheat.


 missinness the "amada, which po to show that the spreat
 cesulte are met athoplute but are rectative, show hing the hishme tots will be made, lut for fill comparatio


Bran and Clean
ings Coarse Shorts. Fine short Price Dec.
 In the loaves of bread it might be stated that the four had not been aged, and the loaves had not the appear ance that would have been the case if the flour had been stored for some time before baking. There were dif ferences in the appearance of the loaf, but not nearly
so much as might be expected. The establishment of this laboratory should give further data on the relative value of different grades o
wheat for milling purposes, and the real injury that is done by certain detrimental factors before it reache ing upon sight and feel and traditional ideas that have
 Pride of Glen Rose.
Senior champion Aberdeen-Angus female at Toronto and gr
for Larkin Farms Quenston, Ont Senior champion Aberdeen-Angus female at Toronto and gr an mated down from generation to generation. milling and baking test
units where $\$, 090$ of capital stock has been subscribed
brown, almost black on the back. The fur of this little animal is much in demand, and hunters and trappers eagerly search for it during the open season. In former a favorite pastime being to spear them at the mouthe of their homes. However, at the present time the game and fishery laws make shooting or spearing of muskrats, or the cutting, spearing, or breaking of their houses, at
any time, prohibitory, except when necessary in defence or preservation of property. The season for trapping muskrats for that part of the province lying south of the French and Mattawa Rivers is from the first day of March to the 21st day of April, and in that part of the province lying north of these rivers, from the 1st of

Progress of Farmers in Commerce. When the Grain Growers' Grain Company concluded
its annual meeting recently it meant the consolidation, organized interests berta and Manitoba, together with
what shareholders what shareholders
of the former company there are in
Saskatchewan. This union of these
interests meant the closer co-operation of the 18,000 share-
holdersof the Grain holders of the Grain
Growers' and 12,000 shareholders of the Alberta Farmers' Co-operation Elevator Company of the United Grain Growers. The new organization will be grain of the 1917 crop. Bet ween now
and that time legislation must be granted by the
Dominion Government to enable an $\$ 5,000,000$, to abolish the use of proxies ormation of local
has been sulscribed This reorganization and consolidation means that the United Grain Growers will be bigger and stronger and farmers' business, than has been the case in the past under separate Grain Growers' Grain Company last year saw very marked progress in every department of its busito 18,163 . The reserve fund has been increased to $\$ 600,000$. The usual dividend of 10 per cent. has been declared from the total profits of $\$ 565,542.10$. During
the year there was handled a total of $48,375,420$ bushels. The country elevators handled $14,773,687$ bushels, and the terminal elevators at Fort William 28,463,438 bushels. During the year there was also constructed a

Muskrats and Their Favorite Haunts.
Trappers chaim that muskrats are plentiful this fall. and these claims are substantiated by the large numbe streams. These homes, or winter quarters, are elaborate houses of conical or dome-like form, cleverly built of selles, grasses and similar material, plastered together
with mud. The haunts of muskrats arc along streams or

Muskrat House.
Fivers, and their favorite diet consists of roots, stem grow near the streams which they haunt alates which inuskats are most active at night, and spend their days Olustration clearly show or pond, as the accompanying that he is dry and comfortatle. Ite enters his home hrough passuges which open under the surface of the The the sleeping quarters are above the water. The muskrat is aquatio in halhits and is related to a heavily built, little animalk with a broad head, short
 new, large warehouse in Winnipeg for handling farmers supplies and machinery. Through this department
there was handled $\$ 1,363,511$ worth of supplies. Perhaps most important there was established a live-stock commission department at the Union Stock Yards, St.
Boniface. Through this department from March to Boniface. Through this department from March to shippers and associations. This annual meeting marks a decade in the life of the company established in August of 1906 by a few farmers
it has grown to its present proportions which, before the it has grown to its present proportions, which, before the
cose of the year, will see a farmers' company with a capital of $\$ 5,000,000$
Such has been the record of farmers in busines. But after giving the record in detail before the annual "What I have just said has to deal with the material advancement, or perhaps better the purely commercial
aspect of the work. While progress has been made in this direction, equally as great progress has been made in the direction of elevating the whole status generally of the worker on the land, as a factor in the development
of the country. The farmers' organizations are to-day regarded by thoughtful men as important factors in the development of our national life. The work of agriculture has taken on a new dignity, and is looked
upon in a new light by the well-informed men in other upon in a new light by the well-informed men in othe
positions of life. There has, unconsciously perho positions of life. There has, unconsciously perhaps
been growing in the minds of farmers generally, a height ened self-respect for the work they are engaged in, and a true- estimate of their position in society and of their when the great majority of farmers (and The time wa commene great majority of farmers (and in a great many
communities, the idea still holds), thought that because a man earned his living by manual labor on the land he therefore occupied an inferior position in society as against the professional man or merchant, and because was largely lacking. His view was that muscle was the chief requisite in his work, and the brain was a par
the human anatomy that he required to use only
the human anatomy that he required to use only
very small degree. However, a change is taking place.
There is now a growing consciousness among our farmers that this is a mistake, and that there is scarcely any o cupation in life that requires in the same degree for its
successful operation the continuous application of it selligent planning and thought that the business infarming requires. The idea of thoughtlessly trusting to what is called luck, is giving way to the better method of trusting to intelligent thought and action. That this change, which has gone on unconsciously, very important
though scarcely noticed, is due in great measure to the influence emanating from the meeting of men workin together for, a common cause cannot be questioned. Our farmers' organizations in and by this work have to the extent that it has assisted in this, hy crompany and aiding by financial help, or in any other way has played a part by no means small in helping in this very mportant work. Let us all keep in mind that we are vantage important as that may be but for thateriar ad vantage, important as that may be, but for the bringing
about of a better and higher type of citizenship. One of the most important responsibilities resting with those harged with any authority in any of our grain growers srowth of this idea not along the lines of sethd the and selfishness, but along the broad-minded plan that seeks to inculcate as the best principle of human relations he Golden Rule-'.Do unto others as you would hav them do unto you

What Readers are Saying About The Farmer's Advocate
As in other years ""he Farmer's Advocate""
having some eoort things said of it at this season. Never have more testimonials been received at this office generous and whole-heasted as has beaders been following our recent Christmas Number. And, while Chat special issue drew forth considerable comment The regular issues of the year have been appreciated
Where one sits down to write to the publishers to tell them how much he has benefited from the paper it is safe to say that hundreds think the same but do not take the trouble to write. It is gratifying to know
that our efforts are doing good and that our readers are appreciative. This year we hope to do better. Every ung is mppey out for a greater effort. The special
articles alone will be worth double the price of the paper But we started out to introduce some of those who
have told us what they thought of "The Farmer's Advocate." We have room for only a few. Read them ourbublicatist read carefully your holiday issue of of reservation, that it is the most attractive publication of its kind I have ever seen, both as to to class of matter
and from a typographical appearance. They tell 115 that the laws of a country are no better than tell u habitants thereof. If 'The Farmer's Advocate's readers generally, are as high class as the publication
itself then you certainly have a most superior class itselt, then you certanly have a mo:

Editor and Manager, Buffalo Daily Live Stock Record.
"Truthfully I must say that the Christmas Number chis year is more readable, heartier, homier, and more R. J. MESSENGER,
Pres..$~$
"As an old and interested subscriber of 'The Farmer's Advocate' I wish to congratulate you on the excellence of your . To my mind it is the beat nave just finished have yet issued and the fact that you have accomplished this, notwithstanding the unfavorable conditions which now exist, merits an extra word of encouragement.
Every department is sound, interesting, reliable and instructive and the illustrations in this number furnish clusions as to the best thing in life are especially interest-
ing. This is a problem which most of us have wrestled and perlaps you might be interested to know my

"The Christ mas Number of 'The Farmer's Advocate'

"The Christmas Number is a Christ mas delight. We
havent yet had time to read closel aill the adtmirable articyess, but enough to note that almost every phase Again I contratulate you upon your alility to present
so thorouthy and to depict so aturact ively Canadian
teals of the highest practical order
 mis latest production have done exceptionally good

"Yout Christ mas Number is a dandy."
Parry Sound District, Ont.
Robrim. Mc:ivight.
"Your Ghristmas Number, as usual, was very
creditable to both the Editor and Publisher, and I shall take mush pleasure in reading it." Publisher, and 1 s. sha
O. H. Dean
"I fect that I must write to tell you what I think of it as a farmer's paper. It is simply first class. Your
Christmas Number was a treat and I did enioy it. What appealed to me most was the article by Mr . McNeilage on the Ups and Downs of the Clydesdale in Scotland. Beine others would."
Wellington Co., Ont. Dougald McKinnos.
"I was very much pleased with the Christmas without your paper for twice the amoun without your paper for twice the amount." McDonald.
Waterloo Co., Ont.
"I have taken 'The Farmer's Advocate' ever since I started farming for myself (about forty years) and consider it the best agricultural paper in Canada
Wellington Coo, Ont.
"I read 'The Farmer's Advocate' carefully every Seek. No matter how busy I am I try to find time with me, I have looked at the three words sersevereand Succeed' on the cover of the Advocate. There is a lo
in those three words."
Grey Co., Ont. James McPherson.
"I have been reading your paper for these two years,
and I would not do without it if it cost ten dollars per $\stackrel{\text { ear."," }}{\substack{\text { Nipsing District, Ont. } \\ \hline}}$
"It is with pleasure I enclose two new names for you subscription list-glad because it expresses, in a tangibl way, my appreciation of your paper-and then I feel
am conferring a favor on the home where I introduce 'Th Farmer's Advocate.' No better reading can be place before the young people of the home than that found in its pages, holding up to them as it does the very highes
ideals. It is refreshing to me to read your onion the different guestions of the dava yeel that thons of honest and sane, arrived at with hout thought of party xpressed in our leading papers.
Durham Co. (1)
"If 'The Farmer's Advocate" did not come ever week the ramily would want to know the reason why.
Wentworth Co., Ont.
"We have tried a good many farm papers, but 'The Parmer's Advocate' is the best yet." B. C. Moore.
Prince Edward Co., Ont.
"You certainly gave your subscribers a generous Heat in the Anniversary Number of 'The Farmer
Advocate' I thank you very much. It is worth many times the price of the paper.
Prescott

Angus Mcintyre
"I am more than pleased with 'The Farmer' Advocate' as an honest, fearless and independent dvocate of the farm
Halton Co Matthew Wilson.
"We look for you every Saturday and cling to you notwithstanding inducements of other farm journals a cheaper rates." S. C. Lanes.
P.E. I.
"I am too well pleased with 'The Farmer's Advofuture days." Algoma District, Ont. $\qquad$ Magnus Tait.
"I would not like to be without 'The Farmer' Advocate' as it is to us like some inseparable friend.'
Rainy River District, Ont.
WM. H. SMITH.
"I have been taking 'The Farmer's Advocate' for much $y$, its many suggestions and practical advicce."
Muskoka District, Ont.
"We could not do without 'The Farmer's Advocate,
 "I could not miss "The Farmer's Adveroate', beccause has lecome a part of my weekly meenu. F. Howard.
Haldinand ( 0 ., ()nt. "I think your paper is an casy first in its own ficld."

Suggested Changes in Winter Fair Prize-List.
At a meecting of the execruive of the Ontario Proclaseses for stharling wethera and grate heifers be elimin-


Some Yields and Winners in the Acre-Profit Competitions.
during 1916 by young men throughout © Ontario who had taken the four-weeks' courses in agriculture, conducted by the District Representatives. The prize received
by the winner in each case is the Short Course in livestock and seed judging at the Ontario Agricultural College, January 9 to 20, with expenses paid. Fiftyseven young men will take the Short Course at Guelph this month at the expense of the Ontario Department of
Agriculture, as winners in these competitions Agriculture, as winners in these competitions. In
estimating the cost of operation, 85 per acre was allowed for the rent of the land, $\$ 2$ for plowing, 15 cents an hour for manual, and 10 cents an hour for horse labor. Fifty cents per bushel was the value placed on oats
raised by the contestants Russell mand County, had a yield of sixty bushels to the are which cost $\$ 13.57$ to produce, leaving a profit of $\$ 16.43$. This particular soil was a clay loam, and the oat crop followed buckwheat. The land has been farmed for a George R. Hill, of Hastings County, was next up in this competition, with a yield of 58 bushels of Banner oats, costing $\$ 13.07$ to produce, leaving a profit of $\$ 15.92$. This crop followed timothy. Almost sixty-five bushels
of O. A. C. No. 72 were produced by Wilson Bell of Simcoe County, but his production cost amounted to $\$ 17.42$, leaving a profit of $\$ 14.93$, placing him third in the competition.
Potatoes
Potatoes were valued at $\$ 1$ per bushel. William S .
Courtis, of Middlesex County, reported a vield of 320 Courtis, of Middlesex County, reported a vield of 320
bushels per acre, grown at a cost of $\$ 44.67$, leaving a profit of 8275.33 . These were Dooley, grown on a sandy loam and following wheat. The land had been fertilized with twelve loads of barnyard manure. Napoleon bushels and a production cost of $\$ 38.55$. Yield of 2.1 profit of \$256.45. These were Early Rose, grown on a The loam, and lertilized with five loads of manure. The land had only been farmed three years. Arthur
Griese, of Renfrew County, was third having yield of 288 bushels per acre and a profit of $\$ 246.75$. Turnips and mangels were valued at 14 cents per
bushel. In the first-mentioned crop, Harry Oldfield bushel. In the first-mentioned crop, Harry Oldfield,
of Muskoka and Parry Sound, reported a yield of 1,173 of Muskoka and Parry Sound, reported a yield of 1,173
bushels and 20 pounds, costing $\$ 26.36$ and leaving profit of $\$ 137.90$. These were Purple Top Swede grown on clay loam, folowing peas. James Moffat, of Grey County, showed a profit of $\$ 133.03$ from his mangels,
which yielded 1,112 bushels per acre and cost $\$ 22.65$. which yielded 1,112 bushels per
These were Giant Sugar Mangel
There were nine winners from the diferent counties in the corn-for-silage competition. This crop was valued at $\$ 3.25$ per ton. Wesley B. Tudhope, of Simcoe County, reporteca yitid leaving a profit of $\$ 78.20$. This corn cros followed which crop was valued at $\$ 1.50$ per bushel, Geo. V Robinson, of Kent County, had a yield of 62.89 bushels eaving him a profit of $\$ 74$ 20- Production cost with Barley was valued at 80 cents per bushel. Stantey R. Browning, of Kenora, had a yield of 50 bushels, which cost \$15.48. leaving a proht or \$24.52.
Robert J. McDonald, of Kent County, had a yield
of $121 / 8$ bushels of beans, which were valued $\$ 121 / 3$ bushels of beans, which were valued at $\$ 3.50$
per bushel. These cost $\$ 14.74$ to produce, thus leaving a profit of $\$ 28.42$.
T wenty-nine bushels of wheat, valued at $\$ 1.30$ per ushel, were produced per acre by Hugh M. Boland, of the profit $\$ 21.62$. Ernest Norris, of Muskoka and Parry Sound, reported a yield of 15 bushels and 6 pounds of peas, valued
at $\$ 2.25$ per bushel. The cost was $\$ 19.94$, and the profit at $\$ 2.25$
$\$ 14.04$.

## The End Does Not Justify the Means

One mornin' last week I drove intae toon tae attend ae some business that had been on ma mind for some ime an that har gotac be mair o a nuisance juist once. I got it fixed up wi' no great trouble aifter a wis anoot tae start for hame when I met the Mayor ' the toon, wha isna' a bad sort o' a chap in spite o' the fact that he has got intae office. It's maybe mair his
misfortune than his fault. mistortune than mis faut
Hand on a meenute, says he, ye're juist the mon Wi= on the lookout for, Sandy. Ye ken the Red Cross
focicty are haulding a raffe these times tae mak' money or carryin' on their laine o' wark whatever ino Hey 've got me intae the business $o^{\prime}$ ' sellin' tickets, an' fittin' up as a prize," says I. "It's a calf," says the mayor, "a pure-bred Ayrshire calf, an' ye hae a chance tae get it for feefty cents. Ye"ll no, stock up yer farm
cheaper than that these hard times,", says he. "I hae
 hame, "an' what's mair it's ower late in ilie for tre tor tae
stand ony chance at makin' a success o' gamblin'. I've

 ookin' at it in the richtway. The , mone " ye're no " that 'the end justifies the means'",""位 there isna' mony things ye need stick at. An
proverbs like that willna' stand in a law coort. The
Auld Book has a word on that point gin I remember richtly. Somethin' aboot those that say 'let us dae evil that guid may come, whose condemnation is just.,
What dae ye mak" oot o" that?" says I. "O weel, What dae ye mak' oot o' that?", says I. "O weel, Sandy, "he replied, "gin ye're no in sympathy wi the
Red Cross I'll no" be askin' ye for yer support. It's yer ain business."
the same time In sympathy wi' them," says 1 . "At the same time $I^{\prime} m$ no' going tae say that $I$ approve $o^{\prime}$ a' wi'oot takin' tae gamblin' an' maybe giein' some young whoot takin tae gamblan an maybe gieim some the deil as quick as gin took tae the drink. There's no' muckle difference atween the twa things sae far as results are, a young lad that used tae live on a farm close by, that used tae gang tae all the raflles an' dice-throwing in the neeborhood. He got, married a few years back an'
moved tae the city, an' the last I heard aboot him wis that he wis spendin' every dollar he could get hauld o' in the gamblin' dens an' such like places in mame nichts for used tae gang oot an' bring him hame at nichts for a course, I ken that a mon has got tae mak' use o' his willpower an' develop back-bone eneuch tae carry him past
these sort o' things, but at the same time I dinna' believe in decent folks takin' onything to dae wi' them. Le us pit oor hands intae oor, pockets an' give what we can
afford tae the cause, an' leave this raffin', gamblin' afford tae the cause, an' leave this raffin', gamblin business tae those that mak' their living that way. 'm
thinkin' some o' the respectable people o' this toon are

## Bringing Home the Buffalo.

One cold, windy-almost stormy-day, early last the train, so I turned to the park gate, now several

October, I procured a saddle horse - the stumbling, rocking equine passed as one at the livery -and rode out from Wainwright to Buffalo Park. After a lifetime spent on the prairies, beginning just as the buffalo dis portunity to see the old relic of the plains brought back from practical extinction to his old haunts and living as near under natural conditions as a park enclosed by 76 miles of fencing would permit. In the past I had seen
buffalo specimens mounted in museums, and I had seen few head confined in yards at city parks, where they looked all that the artificial conditions might be expected to create. Both were unreal. What I cherished as my conception of the buffalo herds of former days and their
traits had been gathered from the old buffalo trails of the prairie, ever a guide for the easier grades over hills and through ravines, that made travelling easy if one
happened to be following their route, but the acme of discomfort if crossing these routes, from the bleached made an income for the Indians for years, that provided food in place of the buffalo. Many was the prairie fire that I fought as a boy,
blackened prairie the
bones might be more
easily seen. And further, my conception of
buffalo traits came buffalo traits came
from the stories of from the stories of
old hunters and traders of those former days, told in the pioneer
farm homes and to farm homes and to
which I as a boy liswhich 1 as a boy lis-
tened as only a boy
could listen to such tales.
From these varied sources, imagination life ideas of the buffalo The museum and city park specimens did not
fit, and here was an opportunity to match
with reality. There was something more than mere curiosity; there was that
that cannot be described While I appreciated the regrets of the courteous gate keeper that urgent work prevented him fromaccompanying me in a search over the huge park, dotted with
poplar bluffs for one or more buffalo herds, I was quite was to meet some herd and without explanation fit my conception and sentiment into the reality,
Some buffalo, though, must be within a reasonable distance of the park gate if my hopes were to be fulfilled as only a few hours separated me from the time when as onty a fewake me to actual work, and modernizing
a train must take meld
an old proverb "trains hesitate for none but money an old proverb "trains hesitate for none but money away, across four miles of the park, around sloughs and poplar bluffs-still on the hurricane deck of that stumbling cayuse and saw nothing. Turning to get the
wind out of my face, I took another direction and rode wind out of my face, beautiful sight. I gave them, though, but a passing
thought and look, they were not what I came to see. At last I had gone the limit from which that particular
piece of horse flesh could return me in time to catch


The Buffalo Back Home
the saving of the buffalo from extinction and bringing
back this herd. Then I thought of the trin neck-and-neck race I, chafed and sore, climbed from in a back of the mustang and handed him over to his proud Owner just as the train pulled into the station. $\begin{aligned} & \text { But } \\ & \text { there was a story and strange truth - these were originally }\end{aligned}$, Canadian buffalo brought home - there lies the story.
There was no big killing of the but there was in the United States in 1879 and 1880 as as commercial proposition for the hides. From our best
knowledge the big Saskatchewan River herd went south in 1878 never to return. They fell in that great slaughter But the Buffalo were the Indians sole food and the maining small herds rapidly fell in the Red man's fight against starvation. Where the last buffalo fell in the
Canadian West we cannot say in the fall of 1882 a killing by Indians and Mountain resulted in contractors, building the C. P. R., then near ing Swift Current, having buffalo roasts as a change in
their monotonous menu. The remnants of this herd went the following winter. records that he saw his last, lone buffalo bull in Septem, ber 1883 , about 40 miles west of Medicine Hat, and
bet ween the Bow River and the C. P. R. He states
conscience, an' sayin' tae themselves that the end justifies the means, an' sae on, but it winna' dae. Ih's willna' say it's richt. When a mon is asked tae gie his
dollar or his hundred dollars tae help his fellowman in dollar or his hundred dollars tae help his fellowman in action are the better for it. He that gives as weel as he that gets; but what benefit a mon can get from buyin' a sort o' lottery ticket, I canna' see. Gin we dinna' gie oor money tae the boys in France that are fightin'
for us, because we want tae dae it, and because we ap preciate what they are gaein' through for the rest $\mathrm{o}^{\prime}$ us, we'd better keep oor money in oor pockets. The Red Cross Society, or whatever kind o' an institution ye call it is supposed tae be one o' the greatest organizations pretty , cheap lookin' wi' yer calf lotteries an' such things," says 1
yer sermon I yer sermon I must be goin'. We've pit oor hand tae
this thing noo, an' we must see it oot, guid or bad just wait Sandy." says he "till we're askin" for straight subscriptions for this business. I'll make ye wish ye'd bought a ticket for the calf."' An' wi' that he left me,
an' I cam' on hame, wonderin' how muckle I'd pit mysel in for this time. They say talk is cheap, but I've seen Hooever, it's in a guid cause, an' gin they ey expected. wi' their subscription list I'll pit ma name doon like a mon. They say that ye should give till it hurts ye,
gin it'sto dae ye ony guid. I'm thinkin' I'll get the benefit Sandy Fraser.
the train, so I turned to the park gate, now several
miles distant. As I turned a couple of moose that had seen me first, made a short run from a slough into a
poplar bluff. I let them go, my interest was in buffalo alone, and disappointment was creeping over me when coming over a rise I found myself looking down on a moving herd of some sixty head. As they came blended into the reality. There was the herd moving along towards a slough in four separate files close together, with a few straggling animals. The stories of a true vision on my mind. The buffalo, when at las they saw me, stopped, stolidly gazed, and went on cayuse and gazed at the scene. I saw only this one small herd, but within the confines of that park were 2,415 head or about that number. In 1909 about 800 head had been brought to that park head reservation in Montana. Looking at that little herd back in its traditional surroundings, in my mind I looked back to the buffaloless plains of 15 to 20 years
ago and wondered if there was not a story attached to
further that a few were killed that same fall north So ended the regime and across the South Saskatchewan. known herd regime of the buffalo, except that little against wolf and Indian in the Little Slave Lake country So might have ended the buffalo with buffalo lore, but back in 1873, an Indian bearing the illustrious name o instead Coyote, forsook the ways of the Indian and instead of killing four buffalo calves that came his way,
he captured them. Two were bull calves and two he captured them. Two were bull calves and two were
heifers. This was in the sweet grass country of what is heifers. This was in the sweet grass country of what is
now Southern Alberta, and were from the big Sas now Southern Alberta, and were from the big Sas boundaries, unconscious of such things as tariffs and custom officers, he took his captives across the line to captivity the calves grew to full grown buffalo and captivity the calves grew to full grown buffalo and
reproduced, until in the early eightieshis herd numbered
Then people awoke to the fact that buffalo had dis-
appeared and that any animals in captivity possessed a appeared and that any animals in captivity possessed a
real value. The factor at the Hudson's Bay post at this point, the last post in the United States, was the first to approach Walking Coyote, but he could not procure the buffalo. However, Pablo and Allard, half-
breed ranchers, also saw possible money in the remnat breed ranchers, also saw possible money in the remnant
of an extinct race, and possibly knowing Indian nature better, secured the herd for a sum that is told anywhere from $\$ 50$ for the lot to $\$ 200$ per head. It mattered little to Walking Coyote, for whatever the sum, it procured enough fire water to give him one grand
debauch right to the happy hunting grounds. His debauch right to the happy hunting grounds. His
friends found him dead on the prairie shortly afterwards. These 13 head formed the nucleus of the Michael Pablo herd of the Flathead reservation in Montana.
Michael Pablo placed them in no confines, they ranged Michael Pablo placed them in no confines, they ranged
over the whole reserve. In the summer they fed out on over the whole reserve. In the summer they fed out on
the plains, and in the fall swam the Pend O'Rille River and wintered in the hills and bluffs closer to the mounains. They in fact followed the buffalo traits of the big herds of the older days when the huge herds swam the
Missouri or Saskatchewan Rivers, going to the plais in summer and woody country in winter As the plains in larger a couple of half-breeds, spring and fall drove in any stray individuals or herds that wandered off the reserve. Michael Pablo acquired new when he secured the famous Buffalo Bill herd Canada, travelled North America and Europe. Even "Buffalo Bill," or Colonel Cody to give him his orthodox name, found buffalo could not be tamed and he wished to be from Colonel Bedson, of Winnipeg. Part of this herd went to Lord Strathcona, and later to Banff but Michael Pablo might have secured other individuals, but these two herds were the progenitors of most of his his unique herd into money. He estimated he had 200 About the time in scattered herds over the reserve. Government, but it was so low that no sale resulted. Very shortly afterwards it was also announced that the ment. Michael Pat was to be thrown open for settlewas three-quarters Indian), connected the low offer (he United States Government and the throwing open of the reserve. To him, the government was attempting to
force the sale of the buffalo. At this time the Canadian of conditions, and communicated particulars to the Canadian Government. The matter was turned over to Howard Douglas, Dominion Parks Commissioner, who in
February went to Montana and found Michael Pablo very ready to sell. A contract was drawn up for the purchase of 200 at $\$ 200$ per head. Later Pablo, fearing he had not that number and also that he would be called upon to deliver them whether he had them or not, in-
sisted upon a new contract including the entire herd
instead of 200 . Government, as it turned out he had well over 700 hea on the reserve. The contract was again altered and
Michael Pablo was paid $\$ 240$ for every live buffalo deIn May, 1908, he reported that he had 200 head ready for shipment, and that there seemed to be as many more on the range. His ranch headquarters were some
30 miles from a station. and in the drive to Ravalli, he lost about 20 head. With sale to himself, and nothing was known Pablo kept the he drove the first herd into the stock yards at Ravalli Then the storm broke. The buffalo had become a part the inhabitants objected to their exportation sentiment fluential individuals wired Washington to tion. In embargo placed upon the exportation of buffalo but with the avail. Then the bad men of the range threatened A guard was gates and drive the buffalo out of the yards. when the buffalo finally left the vards it and night, and home of their ancestors.
With his
round up. Then Ciders Pablo was unable to make another ound up. Then Charlie Allard, a relative of Pablo's that ever shed hair. As a cowboy bring in any buffalo reputation over the entire range. To him Pablenvid $\$ 2,000$ if he would bring in 125 head more, or nothing he did not get that number. Allard with some 40 of the managed to drive about up some 300 head, but only Ravalli. The second and third round ups failed to land a hoof. After resting up he brought in about to more, completing his contract. This was in the fall of
1908 .
By this time the buffalo were so very wild that Pablo
realized it was futile to attempt to make any more drives
to the station, so no further attempts were made that
year. The following spring a new plan was adopted-or rather an old Indian plan known as "pounding" was
rejuveriated. A fence was run across a narrow neck of rejuveriated. A fence was run across a narrow neck of
land formed by an elbow of the Pend O'Rille River This enclosed quite a large area of land. The steep cut banks of the river made escape impossible except in a ew places. Nearly all these were fenced. On the op posite side of the river a wing fence was run out for six
miles in one direction and another four miles at an miles in one direction and another four miles at an
angle in another direction. From the river bank where the fences converged to each other, back for a couple o miles, they were covered with white cotton so that the buffalo would not stampede through the fence. Several drives brought the buffalo down through the gap where
they swam the river and climbed the bank on the other side into the pound. Then all possible approaches were fenced and the last phase of the trip began.
The buffalo were then driven into a small yard,
loaded into huge vans carrying two animals, and hauled oaded into huge vans carrying two animals, and hauled
by six-horse teams to Ravalli.

Through the whole round up there were hair-raising episodes. Men escaped enraged buffalo without know-
ing just how. Fifty horses were lost, vans were smashed, ing just how. Fiity horses were lost, vans were smashed, 700 buffalo were finally carried to the park at Wain wright.

There were left a few outlaws that could not be brought in, and these fell in a buffalo hunt in which a few invited guests participated with Michael Pablo, among
them Colonel Cody, or as he was better known "Buffalo Bill.

Twenty years ago the buffalo was all but an extinct
race. Through no foresight of the authoritaive bodies, but of individuals, he was saved from extinction. Today he has returned to such numbers under the care of extinct animals. So far he has not proven himself amenable to domestication. Far from it. Even in the broad confines of Buffalo Park he must be treated as wild and at times dangerous. His future remains to be seen.
From a herd of 800 in 1909 to 2,400 in 1916 is a fairly
rapid increase, and each year the increase will be more ${ }^{\text {rapid. }}$ We
We have spoken of the past-what of the future? of Wester at Wainwright Park must be held by the people The buftern canada as a relic of more than usual interest. no danger of them slipping into babolute extinction is now no danger of them slipping into absolute extinction unless herds will supply specimens of this great race, orivinal only to the plains, for the parks over the country, where curious people will gaze in wonder. What may be their place in the economic life of the country remains to be seen. That they might play a part is possible. Buffalo robes and buffalo meat might again become a part,
though no great part, in the lives of the people of the country. We have areas of land that might well be turned into buffalo ranches where they could be bred not merely to perpetuate the race, but as a financial proposition and from which would come the robes and
meat referred to. But this is for the future. We will for the time, rest content that the buffalo have been saved from extinction, and are reproducing and increas-

## Automobiles, Farm Machinery and Farm Motors.

## Starting Cold Motors.

By this time, there has not been a part of Canada which has escaped at least one severe spellof cold weat her and so you are extremely fortunate if you have not had
trouble starting your motor during a period of troube starting your motor during a period of low
temperature. In some isolated cases owners are able to start their cars in warm garages and return with them from continuous trips, thus avoiding any starting our car exposed to zero weather, or if a friend of loave your car exposed to zero weather, or if a friend of yours
has been placed in a similar unfortunate position, you loubtless have been called upon to exercise the widest knowledge in overcoming trying obstacles. There are a number of excellent things to be done when a motor
refuses to start. If the radiator is filled with plain water, it is always advisable to drain it off and substitute the warmest water possible. In many cases, however,
the radiator may contain a valuable anti-freze solution, the radiator may contain a valuable anti-freeze solution, and so it is not deemed advisable to drain it with a
consequent loss in real money. The radiator cleaning consequent loss in real money. The radiator cleaning
action, however, can be followed if receptacles are action, however, can te forlowed if receptacles are motor has been started, can be again placed in the adiator. If the use of hot water in the radiator does
not give you results, it is always well to pour some on not give you results, it is always well to pour some on
the front of the carburetor, but be very careful that none of it gets through the tickler to the gasoline inside. We also strongly suggest that you pour hot water on the intake manifold. If after carrying out these manceuvers
you should again fail to develop power, you may find it an excellent idea to place very hot bricks or hot water bottles against the intake manifold and around the carburetor. The idea in all these movements is to
encourage the development of quick vapour. Perhaps encourage the development of quick vapour. Perhaps
these methods nay not bring gratifying results, but there these methods nay not bring gratifyying results, but there
is one that generally will, and that is the use of a blow is one that generally will, and that is the use of a blow
torch on the intake maniold. We must insist that such a method be not adopted unless you are an expert, as
you can readily understand that if a flame touches the gas or a wave of vapour from it, a disastrous frie is bound
to take place. It has been said that an "ounce of pre-
vention is worth a pound of cure," and therefore you
will be well advised to cover up your radiator with robe or rug if you find it necessary to leave the ca standing in a cold atmosphere any length of time. It is surprising how much heat can be retained in a radiato
that is even partially enclosed with warm material great many rural districts now have electric lights. and a simple system for keeping the intake manifold warn is to burn a small incandescent lamp inside the hood covers, close to the intake maninold. The amount of at which starting should be easy. Cold weather also prompts.
regarding oil for winter use. Many of the brand which are sold at present are not entirely suitable for zero weather as they freeze readily and so make it
difficult, in general, for the motor to operate, and in particular for the pump to handle the oil itself. In this, as in many other matters we do not expect our readers oo use our judgment but rather to seek out the agents rrom whom their cars were purchased and
them information based upon experience
Recently a circular has been sent out by a manuacturing firm of considerable prominence, and in it we read an interesting paragraph regarding the filling of
 rr about to the center of the name plate. The remaining space is required for natural expansion and waste through the over-flow expanded water will only waste through the over-flow pipe, and under certain
conditions, once the over-flow pipe becomes full syphoning action may set up, and this may continue until the level of the cooling system is below the radiator inlet. This condition shuts off the circulation and
results in a heated motor. This is results in a heated motor. This is responsible for
warping the cages, valves and cylinder."

Greater Home Comforts. Only two and one-half per cent. of the 400 farmers
visited in connection with the Agricultural Survey of the

Commission of Conservation in 1915 had the complete
service of water on tap, bath and toilet in their service of water on tap, bath and toilet in their houses.
Five per cent had automobiles 38 per 32 per cent. had organs, and 22 per cent. had gasoline
engines on the farm. While it is well that 70 ger engines on the farm. While it is well that 70 per cent. organ in the hinse ical imterest to have either a piano or organ in the house, it is regrettable indeed that 39
of 40 have not installed the water service and bath

No investment yields more in conserving the women's and in elevating the in creating greater home comforts, of living than the installation of water service and the sanitary conveniences in the home. Thousands of farmers who could well afford to do so have not put in the service for various reasond-because they have not about it, or because they think it too expensive cost is not so great as many imagine. A bath tub can be
purchased for $\$ 10.00$ a a sink basin fro $\$ 3.00$ a closet for purchased for $\$ 10.00$, a sink basin fro $\$ 3.00$, a closet for 16.00, a 30-gallon hot-water tank for $\$ 10.00$. Various muans are employed in oblaining pressure at the taps
such as force pump to elevate water to a tank in the attic or the pneumatic tank in the cellar, and the cost of piping and installation will vary according to cir-

One farmer had the hot-water attachment, tank bath and dry closet installed for 550.00 , the farmer himself helping the plumber to do the work. The comcan be installed on the average farm for less the year, farmer pays for the the average farm for less than the harvest time and which stands idle for the balance of the year. The man on the farm thinks he cannot get along without the many labor-saving devices. How about a
labor saver for the farm women? It is unquestontlo labor saver for the farm women? It is unquestionably
a common-sense business service and bath in the house as a comfort to every member of the family, and a constant labor-saving convenience for those who do the daily recurring work of the

## Canada's Young Farmers and Future Leaders.

Topics for Discussion for Young Farmers.
Each week we shall announce topics for discussion
this department. Three topics will appear each week in this department. Three topics will appear each week
during the winter season, with the dates upon which manuscript must be in our hands. Readers are invited manuscript must be in our hands. Readers are invited
to discuss one or more topics as they see fit. AlI articles to discuss one or more topics
published will be paid for in cash at a a liberal rate.
Make this department the best in the paper. This is the boys' and young man's opportunity. Here are the topics:

What is Needed to Make the Farm Home More
Attractive to Boys and Girls?
Is it covneniences, more attractive surroundings, or
better live stock? Does the system of farming in vogue better live stock? Does the system of farming in vogue
give an opportunity to mix with people in a commercial give an opportunity to mix with people in a commercial
atmosphere, or must the young man remain too much
on the land with production his only aim? What is atmosphere, or must the young man remain too much
on the land with production his only aim? What is
lacking? Articles should reach us by Jan. 6th.
2. By-products of Production.

Give your experience in feeding skim-milk, whey and comparative feeding value for pigs of different their Give weights of milk and grain fed and gains made.
Have you ever used whey for raising calves? If so, how much did you feed per day? How did the calves do compared with skim-milk calves? What results
have you had in feeding root tops in the field or when hauled to stable? Give results of feeding bean and clover straw, stating amounts fed and class of stock. to hogs? Which gives best results, feeding them whole,
pulped or cooked? Some years there are many cull
apples for which there is no market. Can they be
profitably fed to stock? Articles should reach this proftably fed to sto
office by January 13 .
What are the Gross Returns From Your Farm? State number of acres in farm, and give gross redoes it cost to run the business? Have you authentic information as to which departments are the most profitcan be increased the coming year? If you the returns books you, no doubt, have an account of the stock and other material sold. Make a resume of an average season's operations and put it into an article of not more
than 800 words, and let us have it by January 20 .

## Grop Competitions Teach Many Lessons.

## Editor "The Farmer"

A great deal of excellent advice has been given by the best methods of excelling in crop production as to have been very beneficial. But behind these winners have been dozens of "farmers" who have tried hard, yet
an we seldom hear of them. It may be interesting to learn of the fun and benefits we have received.
The first lesson we receive from petitions, is that they take the conceit out of crop comas quickly as anything. We were always fairly careful farmers, tilled the land well, fought weeds, and sowed, as
we thought. good seed. A year or two we thought, good seed. A year or two ago, having a
chance for a good crop, we entered the logal crop chance for a good crop, we entered the local crop com-
petition in oats. The crop did well and, viewed throuth petition in oats. The crop did well and, viewed through
our rose-colored glasses, appeared hard to beat. The
editor of the local paper, on a driving tour, informed
us sit it was the best he had senen, and -our hopese
rose high. I had a place prepared for at least sio iif rose hiwh. It had a p pace prepared, for at at least $\$ 10$ if
not the $\$ 20$ prize. Alas! 'so much for In due time the judgearrived, much for expectations. president of the judgearrived, accompanied by the vicepresident of the agricultural society, just in time for
dinner. It might have helped to have but evidently he wasn't to be thus bribed. Before dinner he took a ramble through those oats. After praising mother's dinner sky-high, probably because it was gratis, they departed without the judge giving us a
hint as to all the noxious weeds and other varieties he had seen in those oats, so we were quite unprepared for the blow which was to follow. A few days of suspense till the scores came out, and " biff," down camen our
conceit to zero. I really didn't expect it on that conceit to zero. 1 really didn't expect it of that judge
after our using him so nicely, but our oats contestants for bottom place. The fact that most of the prizes had gone to the other township, and that others in our community whom we had thought poor farmers, were scored as high as ourselves, wasn't much
consolation. Lesson No. 1 well learned, we to see that others could farm also.
Lesson No. 2. Competitions teach one to take a limming graceully. It it a poor dub who can't be
licked a little without getting angry. To parody am licked a l
old verse:

It's easy enough to be pleasant,
But the chap that's worth while,
Can lose, and still smile
Without being peevish and sore
So it teaches one to give the other fellow the credit
due him, and to be good enough sport to tell ue him, and to be good enough sport to tell him so.
The third lesson is perseverance The third lesson is perseverance. The following
year we got five bushecs of special oats and tried again

Our conceit wasn't exactly dead. That was 1915 ; the wot yer. By the time the judge visited us, they were Bood sportswanship we stayed in the race. We eot a tillage. During these two years an experiment with 5 pounds of O.A.C. C. No. 72 oats. brought home from the
stock and seed judquin course, was ghe stock and seed judging course, was having a very pre-
carious existence. The first year they were sowed hate
ind tarious oxistence. Thel first year they were sowed late with my nonsense" earlier in the eseson. They had to
Gight against a plague of sow thistle blown in from other fight against a plague of sow thistle eblown in from other
farms, of course! By the time I got through hoeing

 on a half acre of potato ground They yrew about ffive
feet high, and then "the rains descended and the floods feet high, and the "the rains descended and the foods
came, till $m y$ treasures somewhat resembled $a$ cropt came" till my treasures somewhat resembled a carpet.
However, I managed to to reap a few sheaves and got five or six bagy from the run. Another lesson-stick to it in spite of dififculties.

This year 1 had sufficient of these to sow six acres of corn ground in good heart and clean. Although they it and again entered the competition. We cut out the few Canadian thistles apparent, and this time the fates were kinder, as we broke into the money with fourth prize. Our concession received the five prizes won
the township which made we th Of course, it is
intend to keep trying. Here is another lesson, When We win it is no time to be vain glorious, or to drop out and rest on our honors., Give the others another chance there is always the fellow who says " don't. Besides, crop in his back field." Probably threshing proves him ight, but why doesn't he show them? Honest competi have my $\$ 10$.
Field crop competitions, in my opinion, are beneficial because they emphasize, in a practical way, the im-
portance of clean land, clean seed, and thorough cultivaion. I believe they could be improved by more varia ion of the crops and including corn more often. Pro change. If they increase the yield and quality of oats and other grain, why not these also? However, while the practical lessons in better farming, derived from field crop competitions, are of great value, not the leas humility, good sportsmanship, fairmindedness, per severance, thoroughness and modesty. M. J. Slemmon.
Huron Co., Ont.

## Constant Attention Should be Given the Crop.

EDrtor "The FARMER'S ADrocate"
The field crop competitions are undoubtedly of
inestimable value to the sections of inestimable value to the sections of Ontario which are
energetic, enthusiastic and progressive enough to engage
in energetic, enthusiastic and progressive enough to engage
in them. The benefcial effect is fett, not only by the entire district, which usually has a radius of about fifteen miles. The farmers, as a rule take particular pains with the crop entered in the competition. The levelled so that the crop when mature has an even
appearance. The grain is senerally thoroughly cleaned appearance. The grain is generally thoroughly cleaned
and treated for smut. The start important part and these points in the race ald anay be considered by a competitor. The grain should be drill is thrown in or out of action. Some even go to the trouble of "checking" the grain in, which is sowing one-
half the seed in one direction and the other half in the opposite direction. me crop grows rapidly, and with the rush of work time. These farmers frequently boast to to the judging
thatge ti. This, howeverer, is nevered the field since they sowed
it their credit, and the
judge seldom sees sufficent judge seldom sees sufficient merit in the field to award
it the "Laure wreath.,
The best fields I have ever judged were usually on farms that showed a general air of prosperity and keen
superision. The buuldings were neat, the yards tidy,
the fenco the fence-corners mown, the stock choice, and the fields
naturaly shoved the sane care and attention. What
weeds there may have been were hand pulled and thrown
 Some of the beter cared for fields were mown
around to to ive a oood impression of the height and stand
of the grain, ollhers were to showed lititle or onosigns of ocrear or ard atention, and in ine ever,
cases the farruer wished the judge to pick out his leest cases the farnuer wished the judge to pick out his best
ficld or portion of it and then proceed with the fiddging.
These few however, are always persuaded to point


 sed squarely and a lake.
I firmly believe that the
in the future. cleaned, the ground better prepared, the crops more thoroughly looked after and the general yield improved.

## Competition Leads to Better Farming. <br> Editor "The Fa

Farmers who have not received permanent benefit from field crop competitions are those who have not entered these competitions, and those who did not
make any special effort to secure good seed or prepare their own, and failed to cultivate their land. All a judge can do is to score them low. Where a whole competition is that way, very little good is done except to those who get the prize money. Such a competition is of no special benefit to any district. Field crop competitions have made rapid strides since their inception, and should lead to better farming throughout the province. When these competitions were started in our district in Ontario and there is keener rivalry one of the largest though you are not a prize winner, if you have entered with any interest at all, you can readily see some improvement in the quality and yield of grain, as selected seed
will yield better than that which is carelessly cleaned. Those who win prizes can fight it out again at Coronto, Otta
If you are not successful you can easily see where you can make improvements by comparing y
crop grain and sheaves with those of others.
A very encouraging feature of the competition is the controlling of noxious weeds. A miller in our district who buys the largest percentage of spring wheat entered in the competition, states "that the yield and quality and it is much easier to obtain uniform samples," Here are a few improvements I would suggest: Sow your crops as near as possible at the same time hereby ensuring an evenness in ripening. This would give the judge a chance to do his work more satisIt would be to the advantage of the competitors if th. judge would invite the farmers' sons to go into the or low as the case may be. Further for scoring high should not be changed from one year to another, asthat prevents it from coming up to any standard.

## Judges Should Give Reasons.

## ditor "The Farmer's Advocate"

The field crop competition was inaugurated for the the farmer to grow better crops, through of educating purer seed and up-to-date methods of cultivation. In the use of better seed, the competitions have done a I believe that they have very nearly failed. The farmer has obtained pure seed of a good variety and has grown a good crop, better than he had grown previously, yet very often he does not obtain a prize, at least not one of
the larger ones. There would be no discouragement in the larger ones. There would be no discouragement in
that if he knew and was satisfied with the reasons for his defeat, but, unfortunately, he is not informed of those reasons. Most farmers are matter-of-fact persons. We must know definitely why such and such is the case before we can accept it as the truth. Consequently we
have to know the reasons for the judge's decision befor we can agree with him. I I was interested in a field oats in the competition this year, which was not awarded a prize, and I do not know why unless it was that the
other fields had more thistles. The score gives us some little information, but not nearly enough. We want to general appearance, why we do not get more on for
The majority of farmers, I believe, do not understand instance where a winner said that he did not know why needed the money:
I do not see why the judge could not be allowed to explain his reasons for giving the different score-points
while at the field. Of course it is sometimes necessary for him to change them alterwards, and that might against his giving the information after he has finished. As he is always a stranger in the district, the farmer has
no chance to talk with him after he leaves the field. It
would help out greatly if it were compulsory formen send in his reasons along with compulsory for him to
score cards, or he society. They could then be made known, or the farmers case they should be given very fully so that every
contestant would know why he did or did not win a able good, hut I believe that they could be made much more educational, and I hope that we will see a change
for the better in our contests in the succeeding years

Crop Competitions Encourage Seed Selection and Weed Eradication.

## Editor "The Farmer's Advocate"

In many districts the field crop competitions have been introduced, and 1 firmly believe they are of great benentit to any neighborhood. The feld of oats must
consist of not less than five acres, and, of course must belong to the man who is showing it. The crop must be judged before it is cut." The judge goes over the feld, and I Imight mention the scoring points: 1st, general ap-
 points; 4 th, fredom from other varieties, 20 nocts, 10 poth, yield and quality of grain, 25 points. 20 points;
 do not be a araid to pull the plounce back the first place, do not be afraid to pull the plough back if knocked out of the ground ay a stone or any other means, because
wherever there is an unfertilized place the crop will be short, which may take away the appearance. Alway Work the furrows or crowns until they are level. If the irop is a manured crop then be careful how the manure
is spread. The secret of this commencos the pile. Each day as we take the manure from the stable we mix the different kinds together; it only takes a short while and has a lot to do with the appearance and even
ripening of the ripening of the grain. You know that where the pig
and sheep manure goes the cro and sheep manure gos quicker Lerop will be strong and ripen
Let quicker fet me say again, mix your manure as it
comes from the stable and use ach part of the fild alike. The second point of great value is freedom from weads. se always have the held we enter in the competition sowed on ast year's root ground. We make sure
the root tield is perfectly clean and this assures sus of clean crop the next year. Another way by which we keep down weeds is while cultting our hay we have a box at tached to the mower and we carry ashovel. When a bad
wedd is noticed we dif it outt and weed is noticed we dig it out and put it in the box.
One weed will mean a lot more the next year In the third place the score is for smut, rust, blight
and insects. The smut is very and insects. The smut is very easy to remedy, and no
one should neglect it. Just get a bottle of formaldehyd one should neglect it. Just get a bottle of formaldehyde are both a pest to late-sown crops. Try and and blight field in early.
I thine fourth is the freedom from otber kinds of grain, mill, and by hand pars pay for this is one bese a good fanning
will will soon have several bushels of clean each year you grain. The yield ise comes the yield and quality of field is fertilized, as usually the particular to the way a the crop. Also, as usually the richer the soil the better it theld. Have the field all ready in the fall and work yielder. Now, as to quality. We have always used the
Banner oats, and Banner oats, and clean thoroughly so as to get nothing but the heavy, plump oats. Dry well while in the stook, because oats that heat in the granary are never good,
The field crop competition induces everyone an interest in keeping their farm clean, in growing the weeds. Co., Ont. $\qquad$ James Park, Jr.
Competitions Encourage Young Men to do Their Best.
Editor "The Farmer's Advocate"
These competitions in field crops are a branch of the the general purpose of keeping the young agriculture, with in farming. The Department is certaing y succeeding in its purpose as the young men who have taken part are more intense and thorough in their work than they
would otherwise have been The rules, though not
Each competitor must be a former Short-Course follows: of twenty-five years or under, he must keep an accurate supplied, which are to be filled receipts. Forms are Department as soon as possible in the returned to the is supplied by the Department. If the crop be potadge it is judged according to vigor of growth, indications of
blight 12 feet square, is dug to get an estimate of the vield to see if there is scab. rops throughout the summer, as some could visit the appears very early in the fall before the judging is done.
Thus we see that a summer would be poor looking when judged. The results of these competitions are very encouraging as the older men want to keep ahead of the boys. The competitor also sees where improvement might be made, As I was a Short Course student during the witivation. 1915, I took part the following summer in growing an acre of potatoes. The previous year the growing ing spring it was disked, and manure applied at the rate sets with one or two eyes in each set, and planted on
June 4. As the beetles June 4. As the beetles were very bad, Paris planted on
applied three times and Bordeaux mixture once was applied three times and Bordeaux mixture once. On
the 25 th of August the tops were completely frozen so The crop was dug about the, more. midde of October, and The crop was dug about the middle of October, and
bushels of shed there were 310 bushels. There were 28
early frost.

It Pays to Test and Select Seed Corn. Editor, "The Farmer's Advocate"
Success in corn growing is not always achieved the first year in a field crop competition. In these competitions the principal scheme is getting pure seed. As
a general thing I have a fair to good crop every year and, had my seed been purer, I would probably have won daring these past years. I have found that success only reigns when certain conditions are fulfilled.
Soil, corn is adapted to, should be well drained, manured and powed in the spring, of most years, although this
year it being so dry I do not see that it would harm it nuch by being plowed this fall, as the ground is dry and sod will not rot before spring. I like the heat of the the ground must be well cultivated and a good seed bed prepared. If this work is done in early spring you will
not be sorry in the latter part of the season. When the soil is well disked and harrowed we are ready to plant. I always use a planter, and plant in hills forty-four plant four acres. As forty points out of one hundred are allowed for purity of variety, it pays to plant only pure seed of a standard variety which is adapted to you ocality. Before planting my corn I like to test the seed
and plant only seed of cobs that show 100 per cent. germination. This part is very interesting. to test it I get a box $22 \times 22 \times 4$ inches and place two nches of earth in it. By planting every two inches, I $m$ abe to test Each row in on hoe. It take five kernels rom 1 to 10 , and I have corresponding numbers on the cobs. All cobs that do not show 100 per cent. germina tion are discarded for seed purposes. Having the corn bout two weeks' start It neglected. After giving it bout two weeks' start I spend a half day in the corn
field with a hand planter, replanting where the mis chievous crows or grubs might have eaten out, as some-
imes they play havoc in new sod. The June showers times they play havoc in new sod. The June shower
give the corn more vigor; it also brings the weeds on

## Harvesting

From the standpoint of econo̊my, a supply of ice
should be stored on every farm. Ice aids in making more should be stored on every farm. Ice aids in making more
palatable many a food product, and in preventing the souring of milk and the spoiling of fruit and vegetables. The city housewife considers it almost impossible to get along without a daily supply of ice, but, owing to
the impossibility of having meat, fruit and vegetables the impossibility of having meat, fruit and vegetables
delivered at the door daily, it is more indispensable on the farm than in the city. Besides supplying the housecan be kept in good which butter, meats, fruit and milk many refreshing desserts may be provided. Possibly dairymen find more use for ice than any other class of
farmers, as it is necessary to cool the milk after it is drawn, in order that it may be delivered to market in the best condition. It is also necessary to keep the cream and butter at a low temperature during the hot weather of summer. Some are able to do this by the use of water from deep wells or by utilizing
running streams. This oftentimes requires a good deal of labor, and it is seldom that the milk or cream is cooled to as low a temperature as if ice were used. Each year
sees the demand increasing for higher quality of dairy sees the demand increasing for higher quality of dairy products. In order to supply this it is almost essential months. With the introduction of the cream-grading system, there will be some incentive to market only high-grade cream, but this cannot always be done without some means available of holding the cream at a low
temperature from the time it comes from the separator until it is placed on the market. The cost of putting up ice is not great, but the advantages are many. The season for harvesting ice is again at hand, and no farmer should fail to secure a supply which will facilitate the and will also aid in furnishing many luxuries during the summer season which are dependent on ice for their keeping qualities.

Ice-house Requirements
It is necessary to have some form of building in which to store the ice. It does not need to be an expensive
structure, although the permanent ice-house with structure, although the permanent ice-house with
a refrigerator-room attached is possibly the most
serviceable. At this season of the year it would be almost impossible to construct a permanent house. This need not deter anyone from harvesting a few tons of ice, as a shelter that will prove adequate can be built at ice is required for putting in a house refrigerator, or in or woodshed, may be utilized, end of the driving shed, at the north end of the barn. The ice-house should be out of the sun as much as possible, and it is advisable in demand. If it is to be used for cooling milk and cream, it is a good plan to build it near the milk-house. Drainage is essential, as ice is bound to melt more or less during
the summer, and, if the water is allowed to accumulate the summer, and, if the water is allowed to accumulate is of a heavy, compact nature artificial drainage may be supplied by excavating to the depth of eight or ten
inches, lay a row of tile a little below this and then fill the trench a mot available for this winter few rils can be laid on the ground, which tend to give a fair amount of drain-
age. Care must be taken to bank up around the sides
and unless they are stopped now I find they turn out to be a bother later on. As a general rule I give my corn cultivate about once a week. About the third to fifth week, each hill should be thinned down to three or four Italks, so as to give them more room to grow and mature. year, being a very backward season, I did not get my corn planted until July 8, but I had a good stand and was a successful competitor in our contest. .for each kind or variety of corn ; a breeding station to be many different kinds of each variety, as no two persons pick the same quality of corn for seed purposes ${ }^{\text {in }}$ the same variety.

Keith R. Hillier.

## A Graded Prize List Might Mean Increased Entries. <br> Editor "The Farmer's Adrocate"

The purpose in establishing field crop competitions also encourage the production of larger crops. They shall be as free as possible from weeds, and uniform in variety and quality. They also help to determine
the varieties of grain and roots that are best adapted to each particular part of the province.
Field crop competitions have undoubtedly done more to interest farmers in good seed and better methods of cultivation than any other scheme instituted by crop competition puts his best into making that entry as good as possible. If he puts the same principle into the management of his whole farm he has a fine farm, example and inspiration to his neighbors. of farmers a few good varieties of grain, rather than a
arge number of poor sorts. An example of this is the the field crop competitions were Lincoln oats. Whated in over the annual report one would see nearly all varieties known. Now, looking over the report we see few excep the above three. Similarly
One improvement that might be made is to extend he prizes according to the numbers of entries. If prizes, and for every ten extra entries give say two extra prizes. This I think would encourage a large chance of getting a prize. Another improvement, I think, would be to give each prize-winner a ribbon, similar to that given for
horses etc., at the fall fairs, with the winner's name and horses etc., at the fall fairs, with the winner's name and Now that we hear so much about Patriotism and Production it should give an added impetus to field is much better than putting in a larger acreage

## THE DAIRY.

Changes in Dates of the Live-Stock Meetings.
Since the dates of the Live-Stock Meetings were
published in "The Farmer's Advocate of December 21, published in The Farmer's Advocate of December 21,
1916, we have learned from John W. Brant, Accountant, National Live-Stock Records, Ottawa, that the Directors' Meeting of the Canadian Jersey Cattle Club will be held at 7.00 p.m. on Monday, February 5, instead of p.m. on Tuesday, February 6 , instead of at 10.00 a.m. on Wednesday

## Ice for Use Next Summer.

irculation of air under the ween the rails. While free hould be made for it at the ice is detrimental, provision in contact with the roof would tend to cause the air to become stagnantand result in waste of ice. By having an opening beneath the eaves and in the gables, the air
will circulate through. A good roof is necessary as it would not take long for A good roof is necessary, as it spoil a large quantity of ice. In a permanent storage conducting should be taken to build the walls of nontion may be secured through the cheaper house insulaice in good-quality, dry, clean the proper packing of the ings. supply the house restimated that three tons of ice will tons should be stored for cooling the milk of each cow If building a house this will give some idea of the size require about forty-five cubic feet, then at least will foot must be allowed on all four sides, two feet on the op, and about one foot on the bottom for packing. If twenty tons of ice are required, the ice-house should be about twelve feet square and twelve feet high. This
will allow for the required amount of packing. Several feet could be added to the length of this to serve as a milk-house. It would save carrying the ice any distance or cooling the milk or cream. The accompanying illustration shows a house built of rough lumber, servseen ice kept very satisfactorily in the driving shed The cracks were battened to keep out the air, and the Ifside partition consisted of a single ply of lumber. If a building of this nature is not available, a few posts can be sunk in the ground even at this time of year, of the post will keep the packing around the ice. There is little outward pressure. For an icc-house of the size


Cutting the Season's Ice Crop
which should be scraped off before commencing to cut, as it does not keep well even though it may appear quite
solid. If the ice is cleaned several days in advance of cutting, the thickness will be increased if the weather is below freezing. Where a farmer is working alone the shovel can be used to clean it, but, if two or three cooperate, it would pay to make a cheap scraper and large
horse-power for removing the snow. Where horse-power for removing the snow. Whed for cutting
quantities are stored, the ice-plow is used the blocks, but it is doubtful whether it would pay one man to purchase this implement when onty a smal quantity of ice is required each year. The one used cross-cut saw, with one and a long plank will serve as
for cutting the blocks and straight edge and as a guide to the saw. Aim at cutting the blocks as nearly square as possible, as it makes it much easier to pack. A couple of ice tongs, and an ice hook would complete the equipmend the use of awkward and heavy material to hancle, and wile use the
simple derrick as illustrated for loading, will make the work a lot easier. This may be made by fastening a stout upright to a solid base and then attaching a long pole at the top in such a way that it will act as a lever A pair of tongs can be attached to a chain on the on end, and a rope on the other end can be used for raising
the ice and swinging it on to the sleigh or wagon. For unioading, a block and tackle comes in very handy for raising the blocks and swinging them into position While it is not a difficult task, cutting the ice and removing it from the water, it will very often be as cheap to
buy it from some of the ice companies, who have every buy it from some of the ice companies, who have every In most towns there is an ice company who sell ice at very reasonable price.

Packing the Ice.
In the permanent ice-house, built with insulated walls, no packing material is necessary. The blocks
ice are merely placed firmly together and the outside air not being able to penetrate the thick, insulated walls the ice lasts through the season. In the cheaper house sawdust and planer shavings are most commonly used but if these are not available straw or hay are serviceable although they are not so effective. It is advisable to use old sawdust rather than fresh, green materiar, as the fresh has a tendency to heat and thus melt the ice around
the edges, but if no other material can be securcd it is better to, put up with this little waste than to have no ice at all. First place a layer of the packing materia on the floor or ground and then proceed tolay the blockso ice close together, leaving space around outside for the packing, are should ene chave astew opening
as possible and this is where care in cutting the ice as
noticed. Chips of ice or snow should be packed into any cracks or openings, and if the weather is frosty little water might be poured over it. While this improves the keeping qualities it makes it much more difficult getting the ice out. The surface of each layer
should be level, and the best instrument for doing this should be level, and the best instrument for doing this in filling any cracks. Continue putting in the ice laye upon layer until the required amount is stored and there will be one solid block when completed. The space
left around the outside for packing can now be filled, left around the outside for packing can now be filled,
and it is advisable to pack it thoroughly as it is being put in. The main point is to keep the air from strik ing the ice. The top must also be covered with a good thickness. About two feet of sawdust or planer shavings proves very satisfactory. When the supply is all harvested and carefully packed it requires no more at-
tention until it is needed for use when the summer heat makes some cooling substance necessary

If the ice-house is already built you cannot afford storing of ice it will pay to purchase some rough lumber and build a cheap structure before the ice season isover

The Small Breeder's Chance. There seems to be an idea alroad that it is only breeders with large, well devertoped herds that can with apparently as higherlats individuals, although not in large numbers, fails to attrant the attention of
 of most chaters of stome will go where the hay an chote Whe aluay- marats athemtion whe here she of horatel 1. De two conservative regarding pusthing his hered to Whow it li testing, and to luring the fact to the official sistems of testing, duis menn, whel and semperk on a large or small state have a splentid opportumity of timding out the real produring value of indivituals of proturing a large flow of rich milk her value is en. hameed shove what it would be had no twating heen


done sale. There is no reason why testing cannot be
done in every herd.
By the use of a good sire the small breeder can soon
improve the quality of his herd. Records will show to have been bred by the amateur or small breedei When records show a cow to be unprofitable she ca be weeded out and attention directed to the best. There is no class of breeders that have an equal opportunity New records are frequently being made by individual


A Simple Derrick for Loading Ice


Ice House Built with Concrete


A Cheap but Serviceable Ice House with Milk House at One End

> - It was a'rout hali as hate from sixty to seventy birds Tacing the south. This was silled with wing with the long side
the pen looked ideal the were gathered that winter wor built. However, no eggs weather. The owner was lamenting the fact that he had put so much money into his poultry house, when the suggestion was made that he substitute cotton for part
of the glass and fill the gable of the pen with straw. This of the glass and fill the gable of the en with straw. This
was done, and returns have been satisfat ory ever since On one farm the poultry was kept in a pen at one end of the stable. It was so constructed that very little light windows be removed and the openings covered with cotton.
The objection was raised that the pen would then be too cold Ior the birds, as it was neces they were expected to lay. How ever, he finally yielded to make the suggested alterations, and to close the openings in the roo Which were allowing what warm
air there was to escape air there was to escape. The
weather set in particularly cold after the cotton front was put
in, but the liirds did not seen to mind the nearly so much as the previous cold spell when their
house was tightly closed house was tightly closed. No walls; the straw on the floor legan to dry and the birds appecared to take a new lease of
life. In fact, in less than two weeks after the change was
made seceral had colnne laying. That was two years ago, and that poultryman has
secured a fair percentage of eggs, when prices were high,
since he remodeled his pen. Another instance comes to mind of a well-tuilt, little poultry pen in menapmons herds, It will pay, the young im in stock. By careful selection, right treceding, and good there is a demand for hoth bulls and heifers backed
thy the right kimd of ancestry. Records aidl in selling
 Arornh average production and possibly outstanding are common. a warmer but damp pen.

How Remodeling Improved Several Hen-Houses.
Poultry are housed in many styles of houses. Some buildings are constructed according to the latest ideas many in which conditions are such that hens or pullets cannot be induced to lay until the warm rays of the spring sun take the cold, clammy dampness out of the atmosphere. The pen may be well constructed from a contractor's viewpoint. A good foundation, double-
boarded and papered walls, with windows and doors boarded and papered walls, with windows and doors
well fitted may keep out the wind. A ventilator in the roof may be installed with good intentions, but yet the pen is damp and Birds may refuse to lay. They mope around during the day, and colds, roup and other diseases
If is not necessary that the pen be particularly warm if it is dry and free from drafts. However, unless there
is sufficient ventiation the moisture from the breath is sufficient ventilation the moisture from the breath
of the birds condenses on the walls and gives a clammy feeling in the hen-house. It may be possible to slightly change the construction of the present house so that conditions will more nearly conform with what is essential
A poultry house which gives good results is built of one thickness of boards with cracks battened, except on the north side where it is advisable to use two thicknesses
of lumber and one of paper. The front can be low and open, with a window facing south-west or west. If the walls are six or seven feet high, one-third of the side facing south h should contain glass, and one-third cotton. This gives light and ventilation without a draft. Even when a gale is blowing no wind is felt inside the cotton.
The air diffuses through and keeps the pen fresh The air diffuses through and keeps the pen fresh. In the walls or roof during the coldest weather. The air is dry and the birds do not suffer as much as those in
It will only take a few hours' work to remodel some of the present hen-houses to make them more nearly mect the requirements of the hen. Concrete examples
will illustrate how few changes are sometimes necessary to make the pen healthier for the bird to live in. One pen that was built in three compartments, each large enough to accommodate about forty hens, had consider-
able moisture on both the walls and roof during the first able moisture on both the walls and roof during the first struct ing a model hen-house. It was double boarded and had a shanty roof which gave plent he wi for the windows in the south side. All throug but it failed to rouse the the sun streamed into the pen, peared mopey. The straw on the floor could not be kept dry, and the walls were dripping with moisture at every larly well fed on birds were bred right, and were particu to lay when eggs were high in price. The following winter there was the same trouble, until the beginning of January, when it was suggested that there was not sufficient ventilation in the pen. True, there were
ventilators in the roof but they did not seem to meet
the requirements. It was advie requirements. It was ad
vised that several of the large

## POULTRY.

warm. While the flock usually laid a few eggs during
the winter, better results have been obtained since the birds were partitioned off by themselves and a large opening made in the wall for glass and cotton. Poultry
will not stand dampness, but it is almost impossible to will not stand dampness, but it is almost impossible to
avoid it unless the proper ventilation is given. It does not seem that this can be obtained satisfactorily through satisfactory means. It it curtain-front is a muis easily put on. True, it collects dust, which has a tendency to
clog the pores of the cotton and so keep out the air clog the pores of the cotton and so keep out the air, but this can be remedied by occasionally cleaning the cot-
ton. If your poultry house is front has not been tried as a remedy it might pay to try it this winter.

## Balanced Rations for Hens.

Feeders of horses, cattle, sheep and hogs have claimed ration." Special attention has been given to balanced rations for dairy cows. By this is meant that one food constituent should not be fed in excess, while another is lacking for the upkeep of the animal's body. The protein must be in a certain proportion to the sugars, her share in this scientific feeding.
Tell-balanced ration as eggs were produced by hens fed a well-balanced ration as by those given only corn, wheat periment Station. The balanced ration consisted of three parts by weight of corn and one part of wheat parts meat scrap added to two parts ground corn and one part bran fed in self-feeding hoppers.
The 21 Barred Plymouth Rock pullets in each lot received the same house space and treatment, except
for the difference in feed. The test period lasted for 140
The hens given the balanced ration ate more feed, which cost about 50 per cent. more than the ration of weight and produced ten times as many ergs, making

## HORTICULTURE.

Is that small quantity of vegetable seed, so carefully
harvested last fall, in a safe and dry place?
Watch for the seed catalogues. Select your varieties, and have your order placed in good time.
In all your planning for next season's operations,
remember the great emphasis now quality.
What about the neglected farm orchard? Would it not pay to expend some labor now and later, as well

Don't allow the apples or vegetables in the pit to spoil for lack of covering or on account of too much
covering, and remember that the snow is a good procovering,
tection.

Will your spraying supplies be purchased co-operatively this year? Get an estimate of the requirements
of your local association or a few of your neighbors and write for quotations.

Decomposing apples in barrels or boxes will affect those lying against them. It will pay well to sort showing signs of disease or a tendency to rot.
It will soon be time to commence pruning. The
isadvantages of winter pruning are perhaps more lisad vantages of winter pruning are perhaps more than result from the scarcity of labor if the job is left till spring.
Have your delegate to the annual Fruit Growers Convention secure information regarding your loca vention. The very subject in which your local associaMeeting, unless your respresentative introduces it. Fruit Growers' Conventions and local meetings
will be held during the following three months. It was never more important than at present to know and these should be discussed fully at such gatherings.
Your presence and ideas will help to make these meet Your presence

Tramp the Snow Around the Trees. against mice and vermin of this kind, it would be well from this on to keep the snow firmly tramped around
the trunks. Towards sprig when the mice begin get quite active and burrow through me begin to distances in search of food, the bark of the young tree is very likely to suffer if it happens to come in their way. When the snow is tramped about the stem, the mice are
more inclined to divert their channels where the burrowing is easier, and the tree is spared. It would be a good plan after every snowfall to take a trip through the young

Sometimes a few fresh injury wrought by rabbits also. the tree the ground will attract the rabbit and spare

## How to Prevent Sun Scald

principally injury to trees, known as sunscald, is confined locality trees can be dound in the in almost every alternate freen damaged in this way. It is caused by the hot sun in early spring . The of parts exposed to the side looks unhealthy, dies The bark on the southwest times the dead, blackened bark separates entirely from the stem, which either causes the tree to die or to become so weakened as to be useless. Offentimes the oblique and horizontal branches exposed to the intense heat of likely to gail be blistered, after which borers are very struction. Any orchardist who has noticed of deunfavorable conditions existing in his plantation in of sunscald would do well to prevent a future occurrence of sunscald.
the sun and does which simply breaks the force of Under these conditions the bark is it is preferable. to exposure to sunshine, and will not suffer, but if it is entirely darkened from the sun it is liable to remain weakly and to become affected some other time. Finely but too expensive rolled around the tree is serviceable, stalks placed against the exposed side of the. Corn answer the purpose quite as well and incur no actual expense, except that for labor. Some fruit growers set
a board on the exposed side, or two a board on the exposed side, or two boards nailed together in a V-shaped or trough fashion. Lath can be
driven into the ground on the southwest and do quite as well It is southwest side of the tree prevent sunscald, yet there are thousands of trees that succumb to it every season.
Oftentimes the limbs are injured by this alternate freczing and thawing. Where winter pruning is done the top of the tree too much, for if sufficient branches remain the sun's rays will be broken up before they strike directly on to the exposed side of the large limbs.

The Characteristics of a Few Good Peaches.
27. There are many at this season of the year who are approached and requested to buy young peach trees
for spring planting. Some may desire to do so and are color, or date of maturity. The following tir quality, of a dozen different varieties is taken from the Ontario Bulletin 201, and will convey considerable information to those who may be considering setting peach trees in
the spring of 1917 . Alexander The
o reach the mark first peach of any importance poor quality, white flesh, cling pit; its only value is in earliness, but it comes into competition with southern


Toitilla De Kol Sarcastic 6189

## Official record for seven days: Milk, $5 \$ 4.4 \mathrm{lbs}$; buttar, 29.42 lbs . Dam of Toitilla of Riverside, present R. O . P. champion, with a record of 1057.5 lbs , butter and

Triumph-This variety ripens about mid-August it is largely planted but is not exceedingly, popular on dull and is a poor advertisement for what is to follow Yellow St. John-This is the first good yellow fleshed peach to reach the market. It ripens from the quality; it is a heavy bearer, a good shipper and is quality; it is a heavy Early Crawford-This kind ripens in early September it has good quality, good color, is a good shipper and
is well known to the trade. Many other varieties e. Many
first of September. It is a goo! peach of the Crawford type; medium size, excellent color, a good shipper, and Reeve's Favorite-This ripens with New Prolific it has good size and color is ripens with New Prolific Niagara variety ripens the same time as Chair' Choice. It is inclined to bunch, but the quality is good. It is also a good shipper with large size. September. It is ving with good quality. It is a good shipper and responds in production to manure, cultivation and thinhing This latter quality caused a prominent grower to remark "If I could grow but me variety it would be New
Elberta-This popular variety ripens about ten days or two weeks after Early Crawford. It is large in size best. It is the best commercial peach now grown an is more largely planted than any other variety. Crosby- This is medium sized, flesh a rich yellow good canner, and one the best quality peaches grown and a good shipper It is quite largely planted Smock-The best late peach we have. It has fai color, fair quality, is an excellent canner, and ships wel to distant markets
Any five of the above varieties would make a good for the commercial orchard.
Io show the difference of opinion regarding the here quoted:
I. Triumph, St. John, Crawford, (type), Elberta II. Triumph, St. John, Crawford, Fitzgerald, Eberta, Niagara. Rareripe, Elberta and Oceana
IV. St. John, Fitzgerald, Crawford, Reeve's Favorite ew Prolific, Eberta.
It will. John, New Prolific, Elberta and Niagara. in every list. The former is one of the best early peaches we have. Elberta comes later with good quality and is an excellent shipper. The smaller varieties are gradually being discarded, as size and color bring the price. The four following are preferred by the factories
for canning purposes: Hill's Chili, Elberta Crosby for canning
and Smock.

## FARM BULLETIN.

## The Mystery of Lord Brunswick.

by peter mcarthur.
That sounds a good deal like the title of an oldfashioned, three-decker novel, but I can't help it. What I propose to write about this week seems more like romance than reality, and it may as well be given a romantic title. The papers tell us that we are to have a "ew Canadian Lord who will probably take the title of Brunswick" in honor of his native province, New mistaken this will be our first native-born, Canadian Lord. Shaughnessy was an American, Strathcona a Scotchman, and I think
Mount Stephen was also Mount Stephen was also Can Lord is a native-born
new and about the most surprising specimen we have yet produced. Only about iorty years of age, with
the appearance of a chubby-
faced boy he has to his credit faced boy, he has to his credit
the accumulation of many millions of dollars, a seat in the British House of Parliament, a baronetcy, and now
a seat in the House of Lords. Assuredly Max Aitken, to give him his baptismal name, is a hummer. Outside of the inner circle of High Finance, pracim until he was ready to migrate to England, a fullledged multi-millionaire. My first acquaintance with is name "synchronized" with the job of putting a
cement foundation under the ouse. While the work was in progress the price of cement went up forty cents a barrel, and on making a wrathful investigation I found that the new price was ascribed organized, merged and otherwise high financed the cement industry. Then I found that when nobody was looking, he had merged a whole lot of other Canadian industries, and it was suspected that the low due to the water in the Great Lakes at that time wa And just when Canadians were waking up to the that we had a wizard of finance "in our midst," and were undecided whether to lionize him or "'eave 'arf a brick at im" he suddenly emigrated to England. Shortly afterwards he got into the British Parliament and acquired
never been explained, though it has caused much debate No one could discover who had recommended him for the honor, though the opinion prevailed that whoever did it
felt about such titles as Lord Melbourne did about the Oelt about such titles as Lord Melbourne did about th attached to it." Now Sir Max has been made a Lord, and just what he is being rewarded for no one seems to know. It was certainly not for the ,journalistic ability
he showed as the official " Eyewitness" with the Canadian troops. If titles were given for produced, every daily paper would have its police news done by an Earl or a Viscount.
Now, far be it from me to say anything that might prejudice anyone against Lord Brunswick - if that is the name he fin ally decides to adopt. I know nothing about Worthy most people would not consider entirely praise him or his achievements that find out anything about him. I have read at least half a dozen biographical notices of him, no two of which agree. He has been described to me by a judge, a clergyman and a banker who
knew him personally, but their descriptions failed to make him seem real. Out of the many descriptions individual good-natured, cold, calculating, financial freebooter. In his picture he looks as if he would be ready to play base-ball with the must be something absolutely Napoleonic. Yet there The banker, in his description, dropped one significant emark. "He has a most uncanny power of making bankers and capitalists do whatever he wants them to do." He must have the same uncanny power in his

And yet he appears to be only a "hyacinthine boy. promises, in the near future, to be not only our most distinguished Canadian abroad, but one of the strong men of the George and Bonar Law that made possible the present War Government. It is reported that he occupies a roo next to Lloyd-George in che war And on top of that comes the news of this elevation to the peerage. Certainly there must be something about this amazing young Canadian which has escaped fis journalistic biographer and his personal friends. Fincing him so ne step farthe than the Advocate did a couple of weeks ago, when it surmised that Lloyd-George might prove to be the dominent figure of lolstors prophecy about the future Russian seer's vaticination he prophesied the coming of man "from the Northw military man, who would hold Europe in his grip for ten years. Our new Lord may be said to come from the Northwest, for there is a chapter in his life, not give activities in Calgary. As Eyewitness, he has learned war as a journalist, rather than as a military man Certainly the description seems to fit him better than it does Lloyd-George. Then there is the unceasing one of the most amazing accidents in history destiny

I notice that some of our papers are railing at Si Max's activity as a representative Canadian. As
from the Canadian people they are inclined to repudiate speaking for Canada, though he has been associated with the overseas work our wass Sam Hughes evidently valued his co-operation, and he seems to maintain the same cordial relations with George Perley. He has been persistently mentioned for the position of High Commissioner, and now that healy increased-if he really wants it, which I am inclined to doubt. When he wants a thing we never hear anything about it until after he has got it. But I am hoping that when he finally decides on his title he will not choose
"Brunswick." Isn't there a German Duke of that Brunswick." Isn't there a German Duke of ellow-
name already? I think so, and as our bustling felloner countryman may yet decide to be a Duke, he had better take another name that will leave the future open Besides, the name Brunswick already has a place in
history and literature. There was once a red-headed Duke of Brunswick who wielded a two-handed sword and bandied hardiments with Louis the Eleventh. Then you will all remember Byron's Waterloo, in the old Fourth Reader

Within a window'd niche of that high hall
he whole I think our fated chieftain. Ete." thing more original that would help to endear him his rellow Canadians-such as Lord Waterstock, or lot of Canadian editors who could give him a more appropriate title than Brunswick. But in the meantime it is worth while for us to keep an eye on him and try
to learn something about him. Everything suggests that learn something about him. Everything suggests
that is not in the rank of ordinary men.

## Some Phases of Prince Edward Island's Agriculture

There are some peculiar and interesting features in
agricultural life of that little Island, situated in the thelf agricultural life of that little Island, situated in the
Gulf of St. Lawrence. Its soil is fertile and its people conservative, but staunch and true, and, while they still
have their narrow-gage railroads and up to the present
have sur ave surrounded the automobile with considerable restrictions, they were good enough sports to warm up
over the silver-black fox proposition and make it one of the biggest institutions of its kind in America practically no taxes. This immunity, so, for land pays and so far removed from others, they are determined to o the Legislature because the people liked his no-land-tax policy. A tunnel to the mainland has been advocated,
but the production of the Island apparently will not warrant such a stupendous undertaking. In place of this widened as soon as finances permit, so transportation ransportation have been the greatest obstacles during recent years to rapid growth, but in former times an ment and prevented the inse enditardism stifled developbent and prevented the inhabitants owning land and
bequeathing it to their heirs, the sovereign right of a free people. Prince Edward Island is small but productive. The people are large of stature and big of heart, yet
there is that separation from the mainland which here is that separation from the mainland which ommensurate with the possibilities of the "Garden of the Gulf". In spite of this, the Isslander can produce
at a lower cost and, with a small tax rate, can enjoy as much remuneration for his efforts, perhaps, as those Prince Edward Island has a population of 93,000 living outside the towns and cities are not all farmers; some are fishermen and others are engaged in activities which, though not connected altogether with the land, lations regarding which the country folk may and reguadverse ideas, are not easily foisted on to the people. For instance, automotiles are allowed to rum only on
Mondays, Wednesdavs, and Thursdaves a limited area. This, may appear like a a ruling over of prejudice, and perhaps it is: prejudice not towards
the automobile, but towards those irresponsibles who at first drove recklessly through the country with little in the eastern part of the Province will not yet allow anh automonile within its limits. This may appear from
the distance like obstinacy, but bechind it all is the
past record of drivers who lost their heads or alused past record of drivers who lost their heads or alused
their privileges. Farther west we night be willing a fractured skull simply as a sacrifice on the altar of
progress. On the Island they hold the saner vien that the wheels of progress should turn without the to protect the women and childern against the reckless
ness of a few who are not guided in their actions hy The
Golden Rule. Goden Rule.
Provinces were as wemperance laws of the Maritime
of Prince Edward Island, probed as the moter haws
Efon in that country

 sland; although it will be just as well a
rivers to keep their heads and remmembe
the automobile has had to get a foothold.


#### Abstract

The past has had and will continue to have som effect on the Island. Back as far as 1763 it was divided into lots of about 20,000 acres each and these were give old Country Gentry. They were known as " Pro to Old prietors, but they continued to ive in Britain while without the privileges of ownershin", worked the land the Island Government purchased the rights of thes absentee landlords and sold the land to the tenants but no arrangement was made for a complete or upo ten dollars covers the taxes on 100 acres of land the farmers are not taxed to death.


> Size of Farms and Nature of Farming

The tendency is to small farms, ranging in area from ,397,991 acres; 1,202,347 acres of this ane cler se and divided into 14,369 holdings. The soil generally is red and, as a rule, a sandy loam, but it is estimated
that 200,000 acres are in need of underdrainage. Not until last season did neighbors attempt any co-operative system of ditching, but then after some encouraging
legislation, similar in effect to the Ditches and Water Courses Act of Ontario, they set tor work on broader
plans. Formerly land tile could be procured only with difficulty and at a very considerable cost, but the interested and a tile and brick plant erected. On September 27, 1916, the first tile and the first machineRichmond. This will mean the Island, left the plant at Richmond. This will mean a great deal both to the
agriculture and to the industrial life of the Province. In 1915 the estimated value of the field crops amounted to $\$ 11,130,000$. The hay crop stood highest; oats were second, and potatoes third. A published
report placed the yield of oats at $6,500,000$ bushels, and potatoes at $3,750,000$ bushels. Blue varieties of in Newfoundland, and parts of Nova Scotia. Some Ted varieties, chiefly the Dakota Red, are grown for
the New England trade, but the white kinds do not leave the Island in very large quantities, as, near at
home, the market would be Middle Canada trade is to a certain extent cut off by the heavy production in New Brunswick. A fair average price is 25 cents per large quantities at that figure. Two hundred bushels yield. While the writer was on the Island during
the latter part of Septemer taking advantage of the ridiculously low coming in and jumped to 40 cents per bushel in a few days, but even
then they were retailing for $\$ 2.00$ per in Untario and Quebec. Such was the difference in price at that time between producer and consumer. practiced most, is as follows: grain (oats), hoe crop,
grain (usually wheat or barley), hay, hay, pasture, pacture
This cover This covers a period of seven years, and to the in-
frequency of the hoo crop is
and introduced Canada, put on an active campaig now about twenty-eight cheese factories and twelve creameries in operation.
Since this Province began to receive its share of the progress. The greatest item in this maditrap progress. The greatest item in this expenciture is
the introduction of agriculture into the public schools. An up-to-date, rural-science department has been estabished, and all pupils training for teachers must measure up to the requirements of this branch of the
educational system. In March of 1915, W. R. Reek was appointed Director under the Agricultural Instruction Act. He took with him to the work many good ideas gleaned from and as representative of the Ontario Department of mmigration. By working in harmony with the Pro Kinnon, who has piloted some useful legislation through harming the, splendid work has been done both for th Island. Sea Manures
Farmers who live near the ocean are in a position to obtain a large quantity of manure from the beach.
Eel grass, dulce, and kelp all furnish a considerable Eel grass, dulce, and kelp all furnish a considerable amount of humus and contain some potash. Al
these are available on P. E. I., and, in addition to this mussel mud is used very extensively. This latter material is the result of the death and decay of myriad oysters in the bays and inlets of the Island. For and spread on the land has been dug in the winter per cent. lime, some nitrogenous matter and a trace of potash. Twelve to fifteen tons is applied per acre
about every fifteen years. The Government has under about every fifteen years. The Government has under and sell it to the farmers at cost, which scale with dredge 50 cents per ton. A dock was built where fifty-five October orders were on file for 800 carloads. feat of from the lobster factories also goes to the land, so the quantity of fertilizer actually yielded by the sea is

Egg Circles a Success
This small Province can boast of a successful eggcircle system. There are about fifty local circles; and Manager Board of Directors, President, Secretary and Manager. From 20,000 to 40,000 dozens of eggs
are handled weekly. These are taken by the Maritine markets, as well as by Montreal and Boston. Some shipments have even been made to England. Recently they decided to handle crate-fattened poultry. Tangible last, of a building and vacant purchase, in September The building purchased will be added to and commodation provided for the growing business of

The Experimental Farm.
In August of 1909 an Experimental Farm, whic is a branch of the Central System, was inaugurated.
This is situated on the outskirts of Charlottetown, and
under the supervision of J. A. Clark. First of all, the under the supervision of J. A. Clark. First of all, the
object has been to improve the seed grain of the Island anct through co-operative efforts, to establish certain
and
varieties which prove most prolific. Three different varieties which prove most prolific. Three different
types of oats have been experimented with on ten
different different farms, over a period of five years. These
were the Old Island Black, Ligowa and Banner
one erower, A F. Dewar, of Queen's County, who
had andendial fruit farm, and the quality of his products,
which were alhurden to thetrees, compared very favorats "ith those seen in orchards in Noma Scotia or Ontario, thet time of year. It more were only enterested
and Island Black with 52 bushels per acre. In wheat
the Early Red Fife has proved superior both in quality and yield. In 1915 this produced 41 bushels per acr under field conditions.
The six-rowed and two-rowed varieties of barley
have been tried side by side, and the latter has proved most productive. A new variety has been developed which drops its awns in the field and has the habit of heavy production. Mr. Clark thinks this was originally
the English Chevalier, and later known as the Old Island Two-row variety. It is now registered under
the name of Charlottetown No. 80 . It leads all other by 8 bushels per acre in the test plots, and under field conditions it has threshed 52 bushels per acre for two
years. years.
It has becn the practice also to test out the different strains of the varieties produced by the Seed Growers'
Association on the Island. For instance, eleven different strains of Batner oats were grown side by side
in order to see which of the good types was really the West. With regard to crop rotation, the old Island rotation mentioned previously in this article is being preserved and new ones are being adapted to various conditions
which exist. The good qualities of the Island rotation which exist. The good qualities of the Island rotation
have been enumerated, namely, the immunity which it provides from club root and bad potato diseases;
yet it is almost impossible to get a good stand of clover under this system, and the two years which the land
is !n pasture are almost wasted, for the soil produces is In pasture are almost wasted, for the soil produces
little more than enough to pay rent. Hay is also a
light noxious weeds, the following three-year rotation is being recommended; roots, grain, hay. To get rid of ordinary
field weeds, a five-year system can be followed such field weeds, a five-year system can be followed such
as this: roots, grain, hay, grain, hay. A stockman one, which is giving good service, follows: roots, grain, hay, pasture. As a five-year rotation for stockmen
this one is being advocated: grain, roots, grain, hay,
pasture.
More cultural work is being started, and considerable work has been done in the stables with feeding steers and lambs. The purpose is to utilize those roughages
that are actually grown on the Island farm. In one experiment of feeding steers from November 1 to March
10 , they made a gain of 250 pounds each, and increased 10 , they made a gain of 250 po
two cents per pound in value.
Twenty acres of the 110 acres in the Farm are under horticulture. Perenrials are supplied free to the schools, women's institutes, and to the women of the Province. has been made to get the people to come to the place and look it over. A splendid grove has been maintained
on the Farm and accomodation is provided for picnics on the visitors.

The Silver-Black Fox
It would not be fair to draw this article to a close
without a mention of the silver-black fox industry. without a mention of the silver-black fox industry.
There are now over three hundred ranches on the Island, There are now over three hundred ranches on the Island,
and in the fall these contained about 5,000 foxes, counting the 1916 pups. There is considerable money invested in this propositionand theranches are constructed vested in this propositionand the ranche

| g on |
| :---: |
| or "The Farmer's Advocate": |
| From December to Easter the magnificent fjords of |
| ndinavia are entirely in the grip of the King of |
| nter, because we have none of the. "January thaw |
|  |
| atest enjoyment for all. |
| Our all-absorbing pastime is skating , and we skate |
|  |
|  |
| nt like a sleigh runner. Your skis do not |
| y are longer than one-third your heigh |
| s the rule. Skis may be fastened to one's |
| y are oftener just strapped on. Everyone |
| s skis steers himself along his cour |
| g . pole carried in the hands. One |
| is able to skim over the snow with great g |
| lightness conducive to wonderful |
| has the same effect on its devotees that |
| he more you want to. |
| he movements required in ski- |
| glides along with a swinging movement, and going down |
| hills the skis are held together and the body balanced |
| means of the long pole or staff that is equipment of the person on skis. |
| he momentum attained and the vel |
|  |
|  |
| resh air, delicious with the breath of the pines. |
| ng up hill, on the other hand, is real hard work. It |
| really proficient performer on skis to climb hill |
| necessary to place the skis side-ways against the |
| , making a kind of stairs in the snowy banks. I can |
| would-be pupil that it is no easy matter to |
| rn to ski. I speak from experience, but it is such |
| ccomplishment that it is worth all the hard |
| and tumbles in the snow incident to lear |
| t |
| ar the snow. |
| The Scandinavians all ski and take to it naturally, |
|  |

of these things daunt these hardy, northmen who hav braved the sea and a thousand storms
To ski in Denmark, Norway and sary bit of training, for the winter season is so long that it makes a novel and speedy way to travel, besides it is an eminently healthful sport, and the scenery is so
changeable and varied that it is a real education to on these ski trips; and so we have our national sport Just as tobogganing is to Quebec
alert and quick to act. It requires stad to be agile alert and quick to act. It requires steady nerves, and headlong into the snow even when you and the othe fellows continually cry, "Av vei," which is our Danish way of saying "Clear the hill-A." The women and girls keep out of a great deal in physical well being ond the whole body is harmonized by exercises that are conducive oo perfect health. A person in perfect health is alway The bright costumes of the women and girls, with and lights up the snow with color; the reds in thei caps, scarfs and cloaks are enhanced by the evergreen
of the pines and spruces which are abundant in the woodlands, through which they that go on skis pass Dane sings with one of our poets:

> "Ah, nowhere is the rose so red, Ah, nowhere so small the thorn, Ah, nowhere so soft the downy bed, As those where we were born."

## Welland Co., Ont.

## A New Idea on Rural Depopulation.

Editor "The Farmer's Advocate": The problem of why the boys and girls leave the reasons have been given, such as lack of social advantages,
poor rewards for labor, wrong education, wrong ideals, poor rewards for labor, wrong education, wrong ideals,
inconveniences, etc., and we believe that all of these have an influence more or less. But to say which one is predominant would be a difficult task, because doubt-
less it varies in different individuals. Probably the laudable desire to see life and to improve their financial status is the principal reason, but there are some young people, and ouger hes could make five times what they can in the city. They could not do without city conveniences, to say nothing of the social inte. It is a as perfect on the farm as they are in more also the and young people do not usually relish a quiet life. This is probably the chief reason that sooner or later
most boys tire of the farm. But we think that the evil most boys tire of the farm. But we think that the evil,
if such it be, is more common among the girls, and when the girls go it is usually harder to keep the boys. The average farm girl, especially if she is clever and ambitious does not want to live on a farm because she thinks
(often erroneously, it is true) that there is insufficient (often erroneously, it is true) that there is insufficient scope for her abilities. Then most young girls are
naturally vain; they are fond of dress and want to be naturally vain; they are fond of dress and want to be
where they can be admired and flattered, and have a good time. Woman is the weaker sex, and it takes a strong mind to live isolated. Some young men leave financial, rather than social or from lack of conveniences or fine clothes. I believe that the average farm boy would stay on the farm provided he could have a fair start on one and could persuade the girl of his choice to
stay with him, but in most cases the girl will not live on the farm, and who can blame her? The farmer's
wife has harder work and longer hours that the citizen's wife in like circumstances. And, if the young man
is rich, neither he nor the girl will live on a farm. They is rich, neither he nor the girl will to one in the city. It seems to be the rule that as soon as a rarmer gets traction in the city for the average man or woman,
especially the latter, and we do not believe that it will ever be entirely overcome, because the city has the
advantage of the country in co-operative organization. The moderncity is a wonderful example of co-operation
and interdependence. It is almost as perfect as a for most persons to want to lean on someone else, and the benefits are patent to every thoughtful student. On the other hand, the farmer is isolated and is compelled to work more independent for this rural exodus, and furthermore, I am not sure that it is best to attempt to remedy it. If Canada is
ever to become a great nation, it is necessary that she develop her manufactures and turn her raw materials into finished products, and
of her population must live in the cities and towns. There has always been too large a proportion engaged in production, and too small in manufacturing. This
was inevitable in a new country, but there are still too many producers as compared with the manufactur produce more. This world war shows that the manufacturing nations are the leaders. What is Russia,
with all her land and men, as compared to Germany or Britain, which are highly organized manufacturing nations? I believe that the rural exodus is the natural
result of a sane national policy of the Government
which is following the natural course leading to national Perth Co, Ont such, shou [Note.-Fortunately some people have more faith in farming and its importance to the nation than has
Mr. Burns. Few can agree that Canada has, at the
present time, too many producers.- EdITop.]

Ontario Agricultural College Examination Results.
First Year-maximum, 1,200. 1, Hopper, 973;
Murdoch, $939 ; 3$, Lindsay, $925 ; 4$, Thompson, 900 ; Murdoch, H. H., 885; 6, Watson, 872; 7, Frey, 800; 8 , 8 ,
Zavitz,
Maynard, $854 ; 9$, Harris, $852 ; 10$, Mead, $848 ; 11$, Currier 845 ; 12, King, $810 ; 13$, aylor, 791; 14, McKay, H. T 790; 15, Hall, 785; 16, Marritt, 774; 17, Bouis, 769; 18,
Clarke, 765 ; 19, Smallfield, $764 ; 20$, Williamson, 763 , 21, Peters, 779,22, Brickley, $733 ; 23$, Pegg, $748 ; 24$;
Quirie, $743 ; 25$, Porter, A. M., $740 ; 26$, Pawley, 735 ; 27, Johnson, 733; 28, Jamieson, 731; 29, Carnochan,
73 ; 31, Beaty, $713 ; 31$, Broughton, 710; 32, Ansld,
$707 ; 33$, Fraser, $703 ; 34$, Leavens, $702 ; 34$, West, 702 707; 33, Fraser, 703; 34, Leavens, 702; 34, West, 702,
No. 3; 36, Nixon, 701 , No. 12; 37, Leitch, 700; 38 ,
Patchett, 695; 39, Scott, 683; 40, Silcox, 622 ; 41, Cald-well, 679, No. 2 , 42, Hamilton, 671 ; 43, Whillans
656 , No. 12 : 44 , Porter. H. F. 640.45 . Pa 656, No. 12; 44, Porter, H. F., 640; 45, Patterson, 630
46 , Dunn, 622 , Nos. 3,$12 ; 47$, Spofford, 619, No. 6 48, MacLean, 613 , No. 12; 49, Brown, 593 , No. 2; 49 McGuigan, 5966, No. 2; 49 , Whiteside, 5969 , Nos. $2,5,12$;
52, White, $586 ; 53$, Misener, $585 ; 54$, Penhale, 582 , Nos. 5, 10, 12; 55, MacKay, J. W., 577, Nos. 3, 5, 10 56 , Kernohan, 558 , Nos. 3, 5; 57, Sheppard, 540, No. 12
58 , Salter, 491, Nos. 3, 4, 5, 12.
Remainder of class failed in more than four subjects List of subjects: 1, English Literature; 2, English
Composition; 3, Arithmetic and Elementary Drainage 4, Hydrostatics; 5, Chemistry; 6, Botany; 7, Field Husbandry; 8, Animal Husbandry; 9, Dairying; 10 Second Year Maximum 1300 1 S 2, Atkin, E., 1,005; 3, Musgrave, 984 ; 4, Campbell, 980; 5, Grant, $972 ; 6$, Odell, $956 ; 7$. Quail, $931 ; 8$, Hunter 925; 9, Brink, 921 ; 10 , Oliver, 912 ; 11, Gunn, $911 ; 12$ Gowland, $901 ; 13$, Barber, $886 ; 13$, Matheson, $886 ; 15$
Kezar, $876 ; 16$, Clark, $875 ; 17$, Kimball, $864 ; 17$, Munro Kezar, 876; 16, Clark, 875; 17, Kimball, 864; 17, Munro 842; 22, Stewart, 841; 23, Almey, 831; 24 , Peters, 830 25, Way, 828; 26, Goudie, 827 ; 27, Rutter, $826 ; 28$
Frost, 825 ; 29, Caldwell, $823 ; 30$, Ziegler, 816 : 31 , Toole Frost, 825; 29, Caldwell, 823; 30, Ziegler, 816; 31, Toole
$815 ; 32$, Minielly, 814; 33, Jackson, 812, No. 2; 34 Wadsworth, 798; 35, Aylsworth, 797; 35, Scouten, 797 No. 3; 37, Allan, 796; 38, Mason, 777; 39, Crews, 776 Delamore, 766; 44, Cook, 761; 44, Stillwell, 761; 46, Atkin, R., 758; 47, McLean, 744; 47, Tice, 744
Lamont, $739 ; 50$, Argue, 730 ; 51, Stover, 681 .

List of subjects: 1, English Literature; 2, English age; 5, Manual Economics; 4, Surveying and Drain 8, Horticulture; 9, Botany; 10, Field Husbandry; 11, Animal Husbandry; 12, Dairying; 13, Vet. Pathology. Third Year. Maximum, 1,100: 1, Geddes, 883; 2
Elder, 860,3 , Robinson, $855 ; 4$, Wilson, $852 ; 5$, Maxwell, 851; 6, O' Neill, 849; 7, Patterson, 843; 8, Arnold, 840 9, James, 839; 10, McCulloch, 837; 11, Ferguson, 835; 12, Snyder, 824; 13, Sullivan, 816; 14, Hempson, 808 15, Davis, 802; 16, Heimpel, 781; 17, Cooper, 766;
Hamilton, 764; 19, Newton, 750; 20, Timms, 749; Gandier, 734; 22, McBeath, 724; 23, DeLong, 704; 24, Parfitt, 694; 25, Wallace, 681; 26, Michael, 675; 574 , No. 2; 30, Scales, 557; 31, Mann, 537, No. 3; 32,
Munro, 534, No. 3; 33, Edgar, 509, No. 3; 34, Sproule, ${ }^{\text {Munr }}$
3, French. 4 Hects: 1, English I iterature; ?, Economics; 7. Geology; 8, Botany; 9, Syst. Entomology; 10, Econ. Entomology; 11, Bacteriology. N.B.-No. indicates subject
examinations must be written

## A Suggestion to Those Who Offer Pure-Bred Stock.

Perhaps I might be permitted to offer a suggestion to a great many who advertise pure-bred stock in the
columns of "The Farmer's Advocate." I often look over the ads. and find just the post office and no county, and unless I write to the party or go to considerable trouble I have no means of knowing how far away the advertiser lives. If you would just ask advertisers to always put in the name of
would be greatly appreciated.

## Corn Embargo Removed

Earlier in December an embargo was placed on
feed corn coming from the United States to Canada owing, we believe, to the shortage of cars. This embargo Ontario had ecember-29 at Minister of Agricuiture and to the Chairman of the Railway Commission. Feed is very scarce this year and
before the embargo was removed 150 cars of corn before the embargo was removed 150 cars of corn
bought for Canada in Chicago were held up. Thirtybought for Canada in the way the next day after the

## The Vote Can Help.

Editro "The Farmer's Advocate": to get into the control of a gang of military madmen, which will only spell ruin and disaster to them in the long run, so surely have we farmers, consumers, and working men, allowed out country to get into the hands of moneyed interests which are sucking its vitality and even threatening its very existence.

Combines, money interests, loan companies and our banking system, under present conditions are at the bottom of it all, and are working for their own selfish
ends. Who is to blame? What is the remedy? Is it ends. Who is to blame? What is the vote itself can help it. If ever a country needed a Moses, or leader of men, it is right now. Our parliaments are full of doctors, lawyers, etc., who don't know the needs of the country and care less, and are working for
selfish or party ends. That is not what they are there selfish or part
and paid for.

Wake up! Farmers, if you are disheartened and think it of no use, think of your families who are drifting to towns, making matters worse. It is not too late to
take hold, but if left long, those who see it will be more take hold, but if left long, those who see it will be more
sorry than I am. Some will say this is prophecy, but not so, the conditions are here now and we may as well acknowledge it, in the face of these glaring facts. Very
few farmers are able to buy a farm for even one of their few farmers ane ably make decent payment down. The farms are undermanned, the attendance at our rural schools is diminishing fast; our young men and women are drifting to towns, and the lower production from our farms is all caus
own tale.
For instance, take the production of hogs, what is the isn't enough to go round, and why is there not enough? A very short time ago farmers dropped out of them because pors age make them pay. Whe writer had some years ago, upwards of a hor market, and inside of two months the price fell over three dollars a hundred. We find no fault with that, if the supply and demand were the cause, but they were not. Iasked a well-known firm, whodealt in that line in a
nearby town if they could buy cured meats from the
wholesale any cheaper than before, and they told me without hesitation,
How can a country thrive or even exist under such conditions? And the most of our farm produce goes
through this same performance before it reaches the sumer, until to-day the working man is worse off than he was when only getting half the wages. The producer and consumer are both being robbed at the same time,
and the twenty and fifty per cent. finds its way into this and the twenty and fifty per cent. finds its way into this Most of the farmers will agree on thi

Most of the farmers will agree on this point, the the general managers of our banks. When a farmer is fortunate enough to get a loan, it is only for three months,
which is much too short to do any rood which is much too short to do any good. There should
be some system, government or otherwise, for lending money to farmers who are worth it, to extend over a interest, not exceeding five per cent., so that they can buy their implements, stock or anything else at the lowest Another thing should be done and that right now, while our country is passing through this crisis. No
farm should be sold at a forced sale, by any loan company, as long as the man is paying interest, and then only after a final appeal to the county judge. In other words, if not only for himself but for the good of his country. who might be dhrown on the road at the discretion of

Ayrshire Sale at Tillsonburg. The third annual consignment sale of Ayrshire cattle be held under the auspices of the Southern Countie Aryshire Breeders satisfactory are were frech or springing sold faily well: the ton pie was $\$ 235$, wich wis pail by E Rohine lon for the six-year-old cow, Annette 5th consigned hy Connell \& Fergusson. Buyers secured a numbe bargains. The stock was in good condition and breeding was right. There was not a large crowd present and, owing to trains not running on schedule, many With one exception every animale tata sate was over The sale was well conducted in every detail, and the officers and consigners merited the confidence of the public.

The 49 head sold for a total of $\$ 5,405$, an average of $\$ 110.30$. Twenty cows brought $\$ 3,112.50$, an average of $\$ 155.50$. Six two-year-old heifers averaged $\$ 110.80$. Ten butts brought $\$ 675$. The following is a list of the animals selling for $\$ 100$ and over, together with name of purchaser and his address.
White Legged Kirsty, E. B. Palmer, Norwich $\$ 115.00$
Brighton Brae Jean's Babe, ( F . White Frost, W. Mehlenbacker, Otterville $\quad 115.00$ Maud of Hillview , $\quad 130.00$ Trixy 4th, J. M. Mc Vicar, Belmont
Neidpath

| Seicpath Rose 2sth, W. Marr | 185.00 |
| :--- | :--- |
| Springburn Ve | 210.00 | Sybella of Fernbrook, H. Kerr, Niagara Fall Brighton Brae Dairy Queen 2nd, (.) L. Ackert

Brownie of Fernbrook, M. B. Stafford, Shedden Gairclaugh (irace, A. E. Reid, Verschoyle Blue Bell 11th
Maggicdell, 1

Betsy 2nd, McConnell \& Fergusson, London Buttercupof Fernbrook 5th,F.E. Doan, IVyecombe | Ella of City View, A. Sadler, Morsley |  |
| :--- | :--- |
| Buttercup | 115.00 |
| 105.00 |  | $\begin{array}{ll}\text { Daisy of Norfolk, (i. L. Ackert Mantor } & 150.00 \\ 120.00\end{array}$ Gairclaugh Adalia, B. Pearce, Norwich 105.00

Morning Cilory of Trout Run, D. W. Sharp, Norwich
Monkland Mar Lady Marery, E. B. Palmer
Lady Marjoric thh, B. Pearce
Roxie, J. A. Mckenzie, Innerki
$\begin{array}{ll}125.00 \\ \text { Roxie, J. A. Mckenzie, Innerkip } & 110.00 \\ \text { Annete } 5 \text { th } & 1 .\end{array}$
Milkmaid 3rd, W. Marr
Daisy 2nd, G. L. Ackert
vood Ideal Hero, J. W. Millington, Beach
ville

A Western View of a Bacon Bulletin.
produce is thays hed the hog Canada to produce is the bacon hog and our reasons have been that the man who produces high-class true, however, that the man who produces high-class bacon should in times of high prices, the man who produced the thicker types got just as much for them as the feed the thicker bacon got for his product. This is frue to-d choice "The Farmer's Advocateand Home Dournalof to-day and IIan., has this to sateand Home journato innipeg," production.
" The lacion heer and the Britist mather the
of Agriculture, Ottawa. It strongly advocates the production of the bacon hog and at that increased and regular production of this type, that Canadian bacon or Wiltshire sides at this auspicious period may corral the British market. The trade of Denmark, our greatest competitor, it claims, is now demoralized and that we can, with the co-operation of the farmer, packer and other interests, build up a bacon trade that will survive. It is a message to the farmer intended to stimulate the production of bacon, the effects of which will never pay for the paper required for its publication.

Is it not time that a department, which claims to have foresight, should have enough intelligence commence at the righ side of this matter? is it not time that the live-stock branch realized that if a certain type of hog is desired the desire should be realized in a monetary way and effort by the farmers will be put forth to produce that type, provided the remuneration when he sells his hogs sufficient for his endeavor? Some few years ago we had a bacon campaign and bacon trade. Instead of there being extra remuncration by the packers for the bacon type, all hogs up to a certain weight brought flat price. The production of the bacon kind was maintained for a time by mere volume of enthusiasm and thence without any discrimination the farmers ealized the folly of their efforts and allowed the types to drift into natural channels. Hence the types and
trade gradually dwindled in spite of worthless bulletins and "addresses.
bacon trade, publicity is not whe first to encourage the bacon trade, publicity is not the first essential. Why
not standardize all of our bacon exports? not standardize a our ofon exports? Have at quality article sought after by the consuming Britisher. Thence if this Wiltshire side is the type desired, why should the packer not pay a premium for it? And if the farmer put forth all the energy necessary to production he will put will treat such a matter as a business proposition. "In this way the product of the energetic farmer he paid for and the promiscuous breeder gets what
he deses. The live-stock branch says. he deserves., The live-stock branch says: 'produce purely a philanthropic project on the part of the farmer ."What improvement was made by verbal enthusiasm before the cream grading system came into effect?
What would be the value of bullctins and addresses on the production of No. 1 hard wheat if all wheat was produced at a flat rate? So what can be expected of the system now being advocated to encourage the production of bacon without flnancial inducements? class of pork it is a certainty that, owing to the great demand, the consumer pays a higher rate for the preference. Then why should not the greater market value find its way back to the producer? Why should t stop at some intervening point? If there is no inthe bacon type?
There is no sound argument for in their bulletin: the fat hog in Canada.' We would also state that without a preference there is no sound argument for preferenction of a bacon hog in Canada. Without which our feeds tend to hog should be of the type the fat nor the bacon, , produce. That type is neither poserved in any farmer's yard if selection has not been hicker the factor. The bacon types tend to become more of the medium, hence the become lengthier and medium thick, in harmony with our feeds, will find come, until a remuncration sufficient to for years to 0 select to the bacon, contrary to our to induce farmers

Toronto, Montreal, Buffalo, and Other Leading Markets.

| Toronto. |  |  | , 81 |
| :---: | :---: | :---: | :---: |
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## THE ROYAL BANK OF CANADA

Capital Authorized $-\quad \$ 25,000,000$
Capital Paid Up -
$\mathbf{1 1 , 7 8 5 , 0 0 0}$
Reserve Funds $11,785,000$
$13,236,000$
Total Assets - - - 214,000,000
Branches throughout every Province

| Accounts of Farmers <br> Invited <br> Sale Notes Collected |
| :---: |

Savings Department at all Branches

Calves, choice, $\$ 11.50$ to $\$ 12.50$;
medium, $\$ 8.50$ to $\$ 10.50 ;$ common, $\$ 5.50$
to $\$ 8$. to $\$ 8$; heay fat, $\$ 7$ to $\$ 9.50$. $\$ 12.25$;
Hogs, fed and , watered,
weighed off cars, $\$ 12.50$. weighed off cars, $\$ 12.50$.
Less $\$ 2.50$ to $\$ 3.50$ per cwt. off sows, $\$ 4$ Less $\$ 2.50$ to $\$ 3.50$ per cwt. off sows, $\$ 4$
to $\$ 5$ per cwt. off stags, $\$ 1$ to $\$ 2$ per cwt.
off light hogs and $\$ 2$ to $\$ 3$ per cwt. off off light hogs and $\$ 2$ to $\$ 3$ per cwt. of
thin feeder pigs, and one-half of one per
cent. government condemnation loss.

## Breadstuffs

Wheat.-Ontario, No. 2 winter, new,
per car lot, $\$ 1.65$ to $\$ 1.67$, No. 3 winter,
per car lot, $\$ 1.63$ to $\$ 1.65$, (according to
 ports-No. 1 northern, new, $\$ 2.01$; No.
2 northern, new, $\$ 1.98$; No. 3 northern, 2 northern, new, $\$ 1.98 ;$ No. 3 northern,
new, $\$ 1.90$; old crop, trading 4c. above Oats.-Ontario, No. 2 white, 62 c . to
64c., nominal; No. 3 white, 61 c , to 63 c .,
nominal. nominal. Manitoba oats (track, bay
ports)-No. $2 \mathrm{C} . \mathrm{W.} ,691 / 2 \mathrm{c}$.
Barley.-Malting barley, according to freights outside, $\$ 1.16$ to $\$ 1.18$, nominal;
feed barley, nominal. feed barley, nominal. Buckwheat.-According to freights outside, $\$ 1.20$, nominal. Rye.-No. 2, $\$ 1.32$ to $\$ 1.33$. Rour. - Manitoba first patents, in jute
bags, $\$ 9.40 ;$ second patents, in jute bags, $\$ 8.90$; strong bakers', in jute bags,
$\$ 8.50$. Ontario, new winter according $\$ 8.50$. Ontario, new, winter, according
to sample, in bags, $\$ 6.80$ to $\$ 6.90$, track, Hay and Millfeed.
Hay.-Track, Toronto, No. 1, per ton,
$\$ 13$ to $\$ 13.50 ;$ No. 2, per ton, $\$ 9$ to
$\$ 11$. \$11.
Straw--Car lots, per ton, $\$ 9.50$ to
 Shorts.-Per ton, $\$ 33$.
$\$ 2.80$. feed flour.-Per bag, $\$ 2.70$ to \$2.80. Country Produce.
Butter.-Creamery, fresh-made pound squares, 48 c . to 49 c . per 1 b ; ; creamery
solids, 44 c . to 45 c . per 1 b ; dairy, 40 c .
to 41 c . per 1 b .; separator dairy, 43 c . to to 41c. per 1 .; separator dairy, 43c. 10
44. per 1 l.
Eggs. ary on the wholesales during the past
week, selling at 65 c . per dozen, in cartons; week, seling at 65 c . per dozen, in cartons;
cold storage selects bringing 4.3 c . per
dozen; fresh, in ease lots, 40 c. per dozen. Poultry. Poultry slumped in price,
turkeys especially, recipts being very
heavy. They now bring the following
 fowl, under 4 lbs , per 1 b ., 10 c .; squabs,
per dozen, dressed, $\$ 3.50$ to $\$ 4$. Cheese.-June, 26 c . per 1 l . ; new, 26c.
per 1 b .; new, twins, $261 / 2 \mathrm{c}$. and $26 \frac{3}{4} \mathrm{c}$. per Honey remained stationary in price with an active demand. Sixty-lb. tins
selling at 12 c . per lb.; one- lb . sections,
$\$ 2.40$ to $\$ 3$ per dozen.

Hides and Skins.
City hides, flat 25 c. ; country hides,
cured, 24 c .; country hides, part cured,
 32c.; sheep skins, city, $\$ 2.50$ to $\$ 3.50$;
sheep skins, country, $\$ 1.50$ to $\$ 3$; lamb sheep skins, ceuntry, $\$$ to $\$ 2$; horse hair,
skins and pelts, $\$ 1.50$,
 47c. per Ib, iwoi, rejections. 35 .c. to to .3c.
per Ib.; wool, unwashed, 34 c . to 37 c . per
lb.
Wholesale Fruits and Vegetables. Receipts have been light and trade
quite dull on the wholesales during the past week.
California
ly in price, selling at $\$ 2.75$ to $\$ 3.25$ per
case. The Florida orange season is just about over and they have kept
about stationary in price, selling at $\$ 3$ to $\$ 3.50$ per case with pineapple Grapefruit has been a slightly better
sale this last week at $\$ 3.75$ to $\$ 4.25$ per Strawberries continued to arrive,
selling at 90 c . per box.
Tomatoes, hot-house, of good quality Tomatoes, hot-house, of good quality
have leen scarce, the No. 1's selling at
25 c . to 30 c . per 1 b ., and No 2's at per 1b. 1 bloe . Der 1 B ., and No. 2 's at 20 c
Petatoes.- There is a firming tendency
in potatoes. The New Brunswick Delain potatoes. The New Brunswick Dela-
wares being quite stiff at $\$ 2.25$ per bag.
Prince Prince Edward Islands and Quebecs
$\$ 2$ per bag. -Beets selling at $\$ 1.50 \mathrm{p}$ per bag; cabbage, per bag; turnips 65 c . per bag; parsnips,
$\$ 1.35$ to $\$ 1.50$ per bag. Leaf lettuce has been scarce and is
a good sale at 30 c . per dozen.

## Montreal.

week. Butchers; for the cather dull last purchased freely ber the Core most part,
many of them had sufficient sas, and hany of them had sufficient stock on Receipts of live stock were not very large, quality of the stock offered was good, and a few choice cattle changed hands at
10 c . to $10 \frac{1}{2}$ c. per 1 lb . For the however, choice steers sold around 10 c . oo 93/4., with some good stock around 9c. per Ib. Bulls broug ht from 8 c . to $83 / 4 \mathrm{c}$.
per 1 l ., and cows from 7 c . to $71 / 2 \mathrm{c}$. Canners' cattle were in good demand around Choice Ontario- lambs ranged from 13 c . to $131 / 4 \mathrm{c}$. per lb ., while sheep were $83 / 4 \mathrm{c}$. qualities ranging lower. The market for live hogs was active and the price was strong. The price of choice stock was
in the vicinity of 13 c ., while inferior hogs sold all the way down to 7 c . per lb .
Calves ranged from 9 c , to $101 / 2 \mathrm{c}$. per lb . for milk-fed stock, and down to 5 c . for Horses.-There was nothing new in the market for horses during the week, and
practically no trading took place. Prices weighing 1,500 to $1,700 \mathrm{lbs} ., \$ 200$ to $\$ 250$ each; light draft horses, weighing
1,400 to 1,500 Ibs., $\$ 150$ to $\$ 200$ cach: 1,400 to 1,500 lbs., $\$ 150$ to $\$ 200$ cach;
small horses, $\$ 100$ to $\$ 125$ each; culls, $\$ 50$ to $\$ 75$ each, and choice saddle and carriage Poultry.-Turkeys have come down
somewhat in price since Christmas, and somewhat in price since Christmas, and
geese and ducks were firm, being in deall the way from 30 c . 31 c per anged choice, in a wholesale way, while common
stock sold at 25 c . Choice chickens brought 22 c , to 24 c ., and common as low
as 18 c , while fowl ranged from 15 c . to 20 c . to 23 c . per 19 c . to 21 c ., and ducks Dressed Hogs.-The market for dressed fresh-killed stock took place as high as Potatoes.-A wide range was still quoted on potatoes. The market was
uncertain and varied according to circumall the way from $\$ 1.75$ to $\$ 2.15$ per bag, stock was quoted at $\$ 1.70$ per 80 lbs . Maple Syrup and Honey. The market for maple syrup was steady at 90 c . to
95 c . per $8-\mathrm{lb}$. tin; $\$ 1.10$ for $10-\mathrm{lb}$. tins, and $\$ 1.25$ to $\$ 1.50$ for $13-\mathrm{lb}$. tins. Honey was unchanged at 15 c . per lb . for white
clover comb; 13c. for extracted and for brown clover comb; 11 c . for brown ex
tracted, and 10 c . for buckwheat. Eggs.- The market for eggs was very
firm, but prices were unchanged. Pro-
duction is falling off and is now very light. duction is falling off and is now very light
Strictly new-laid eggs were quoted at 70 c.
and fresh eggs at 60 c . No. 1 selects
ranged from 42 c . to 44 c per dozen, No.
candled 38 c . to 40 c ., and No. 2 candled,
34 c 34c. to 36c. per dozen.
Butter.-At the auction sale here,
winter creamery sold at 40 c . for best, winter creamery sold at 40 c . for best,
down to $381 / 8 \mathrm{c}$. for fine. Dealers quoted winter creamery at 42 c . to $4211 / 2 \mathrm{c}$. for choicest and undergrades at $401 / 2 \mathrm{c}$. to
$411 / 2$. Finest fall creamery held at 43 c . o $431 / 2 \mathrm{c}$., and fine at $421 / 2 \mathrm{c}$. to $423 / 4 \mathrm{c}$. according to quality. western colored quoted at $251 / 4 \mathrm{c}$. to
$251 / 2 \mathrm{c}$., and white at $1 / 4 \mathrm{c}$. less. Finest $251 / 2$ c., and white at $1 / 4 \mathrm{c}$. less. Finest
eastern colored was $241 / 4$ c. to $241 / 2$ c., with Grain. - The market for oats was stronger last week, No. 1 Canadian Western heing quoted at 70 c .; No. 3 was $641 / 2 \mathrm{c}$.,
and No. 2 feed 63 c . per bushel, ex-store. Flour.-The flour market was rather firmer during the week, and first patent Manitoba flour was quoted at $\$ 9.50$;
seconds at $\$ 9$, and strong bakers' at $\$ 8.80$ seconds at $\$ 9$, and strong bakers' at $\$ 8.80$ quiet, and 90 per cent. patents were $\$ 8.50$ to $\$ 8.80$ per barrel, in wood, and $\$ 4.25$ per bag.
Millfeed.-There was no change in this market. Bran was $\$ 32$ per ton, in bags; mouille, $\$ 43$; pure grain mouille, $\$ 45$ to
Baled Hay.-No. 2 hay was quoted at mixed at $\$ 10.50$ per ton, ex-track Hides.-Beef hides were 1 cent lower skins., were steady a屯 38 c . and 36 c . per 1 l . lamb skins were steady at $\$ 3.50$ each, and 3 c . to 5 c . per 1 b . for rough, and 8 c . to 9 c .
for rendered

## Buffalo.

Cattle--Offerings were light last week,
the result of the holidays, and the Monday the result of the holidays, and the Monday
trade-Christmas day-for the first time within the history of the Buffalo market, being thrown on Tuesday. Instead of a couple of hundred cars, as have been the
runs of late weeks on Mondays there were only seventy-five loads for the Tuesday
ond on shipping steers, if there had been better liberal offerings in this division, for the usual number of buyers were here, and there was demand for all classes of shipping steers. Trade on steers generally bringing from $\$ 9.25$ to $\$ 10$, with yearlings and best butchering steers from $\$ 8.40$ to $\$ 9.25$. Very few of the real choice
kinds of cattle offered. All classes of mixed butchering stuff sold at steady in especially good demand. Milk cows and springers, especially where real good, reached 2,500 head, as against 6275 veek the previous week, and 3,200 head for the corresponding week last year. Quota
thinping Sters -Choice to pimen na plain, $\$ 7.75$ to $\$ 8.25$; very coarse and common, $\$ 7.25$ to $\$ 7.75$; best heavy Canadians, $\$ 9.75$ to $\$ 10.35$; fair to good, $\$ 8.25$ to $\$ 8.60$; common and plain, $\$ 7.75$
to $\$ 8$. Butchering Steers.-Choice heavy, $\$ 9$
to $\$ 9.75$; fair to good, $\$ 8.50$ to $\$ 8.75$, handy, $\$ 8.75$ to $\$ 9.30$; fair to good, $\$ 7.7$, $\$ 7.25 ;$ yearlings, prime, $\$ 9.50$ to $\$ 10.25$; Cows and Heifers. - Best heavy heifers, $\$ 8.25$ to $\$ 8.75 ;$ best butchering heifers,
$\$ 7.50$ to $\$ 7.75$; fair butchering heifers,
$\$ 8.2$ $\$ 6.50$ to $\$ 7.25$; light and common, $\$ 5.25$ to $\$ 0.2 .5$; best heavy fat cows, $\$ 6.75$ to $\$ 7.25$,
 to $\$ 4.50$; canners, $\$ 3.50$ to $\$ 4.25$. 8 , Bulls.- Best, 84.3 .
Beavy $\$ 0.75$ buther-Best heavy, $\$ 6.75$ to $\$ 7$; good
butchering, $\$ 6.25$ to $\$ 6.50$. $\$ 7$ to $\$ 7.25$; comeders.-Best feeders, $\$ 5.60 ;$ best stockers, $\$ 6.50$ to $\$ 7$; common
to good, $\$ 5$ to $\$ 5.50$ to Milchers and Springers in small lots, $\$ 80$ to $\$ 100$; in car loads,
$\$ 70$ to $\$ 75$. Hogs.-Last week started with ${ }^{\text {i }} 125$ loads, and while a top of $\$ 11$ was made
on some good hogs, bulk of the at $\$ 10.85$. Wednesday values were sold
at
clined 5 to above $\$ 10.95$, with majority selling from $\$ 10.75$ to $\$ 10.80$, and Thursday prices
were steady to a shade hing
showed the highest average of the week,
when bulk sold at $\$ 11$. Pigs and roughs ranged from $\$ 9.50$ to $\$ 9.75$, and stags from $\$ 8.50$ down. Last week receipts were 37,500 head, as against 43,636 for same week a year ago, Sheep and Lambs.-Market on lambs
showed improvement as the week ad-
vanced. Tuesday, which took the place vanced. Tuesday, which took the place
of Monday, there being no market on of Monday, there being no market on
Christmas, top lambs sold generally Christmas, top lambs sold generally at
$\$ 13.50$. Wednesday some sold up to \$13.75; Thursday the bulk landed at $\$ 13.75$, and Friday they sold as high
as $\$ 14$. Cull lambs the fore part of the as $\$ 14$. Cull lambs the fore part of the high day some real good throwouts reached as high as $\$ 12.85$. Yearlings showed a top of $\$ 11.75$; wether sheep were quoted from $\$ 9.50$ to $\$ 9.75$, and ewes from $\$ 9$ head, being against 21,385 head for the week previous, and 13,968 head for the same week a year ago.
hung up last week at Buffalo ford was Tuesday tops landed at $\$ 14$ and $\$ 14.25$; Wednesday bulk sold at $\$ 14$; Thursday the highest day on record, tops landed generally at $\$ 16$, with a few selling up to $\$ 16.25$ and $\$ 16.40$. Receipts last week the week before, and 1,375 head for the same week a year ago

## Chicago.

Cattle.-Beeves, $\$ 7.25$ to $\$ 11.80$; west-
ern steers, $\$ 7.25$ to $\$ 10$; stockers and feeders, $\$ 5.25$ to $\$ 8.25$; cows and heifers, Hogs.-Light $\$ 90$ to $\$ 13$. $\$ 9.85$ to $\$ 10.50 ;$ heavy, $\$ 10$ to $\$ 10.50$;
rough, $\$ 10$ to $\$ 10.15 ;$ pigs, $\$ 7.50$ to $\$ 9.15$; rough, $\$ 10$ to $\$ 10.15$; pigs, $\$ 7.50$ to $\$ 9.15$. Sheep. - Lambs, native, $\$ 11.25$ to
$\$ 12.60$.

Cheese Markets.
fancy, $231 / 2$ c. to 24 c .; Montreal, finest westerns, 25 c . finiest easterns, 24 c .

## Gossip.

 Owing to the increasing requirements ofalcohol in the production of munitions in
Great Britain, steps are afoot that may Great Britain, steps are afoot that may
lead to the purchase of the drink trade by the Government.

The Ayrshire cow Annette 5th, which sold for $\$ 235$, the highest price at the recent sale at Tillsonburg, was consigned
by W. Fergusson, of the firm McConnell \& by W. Fergusson, of the fi
Fergusson, London, Ont.

Sale Dates.
Jan, $31, \mathrm{~B}$
signer's Sale
Holstein ConFeb. 1-2, Canadian Shorthorn Breeders, Milter, Stouffville, Manager

## Coming Events.

Jan. 4 and 5.-Eastern 'Ontario Dairy Nans Association Annual Convention, Jan. 9 and 10.-Annual meeting of the Experimenta anion, - A. C., Guelph. Dairymen's Association Annual Convention, Woodstock. Jan. 16 to 19.-Ottawa Winter Fair. College, Guelph. In stock and seed judging, Jan. 9 to 20; poultry raising Jan. 9 to Feb. 3; bee-keeping, Jan. 9 to 27 ; dairying, Jan. 2 to March 23; horti-
culture, Jan. 9 to Feb. 16; business and culture, Jan. 9 to Feb. 16; business and
marketing, Jan. 9 to 20. ck Meetings, Feb. 6 to 7.-Fairs and Exhibitions Con-
vention, Toronto, 2 p.m. at Forrester's Hatl. Vegetable Growers' Association, Parliament Bldgs., $\quad$ oronto, 9 anm of the Ontario Plowman's Association, Forrester's Hall, Tororito, $2.30 \mathrm{p} . \mathrm{m}$. Corn Show and ComFeb. 13 to 16 .--
Annual meetings of United Farmers of Ontario and the Dominion Grange-the
week of Live Stock Meetings, Toronto.



Decorations Presented to the City of Vecordun by President Poincare. President Poincare some weeks aro gave to the
City of Verdun, decorations from all the allied
It
 Faith. You that have faith to look with fearBeyond the thagedy of a world at
strif,
And trust that out of night and death The dawn of ampler lifg; Rejoice, whatever anguish rend your
heart That God has given you, for a priceless
dower, To live in these great times and have That you may tell your sons who see the Hight in the heaven, their heritage to
take:
'I saw the powers of darkness put to


## Roumania


all about them, on the peasant farms, were to be seen the most primitit
contrivances, sickles and scythes, home made forks and rakes, ox-carts for hauling Alails for threshing out the grain. Yet
in spite of all this Roumania has been one of the most productive countries
in Europe. In 1915 her output was in Europe. In 1915 her output was
$89,000,000$ bushels of wheat, $110,000,000$ bushels of corn, $29,000,000$ of barley
and the same of oats. For its size has averaged, during late years, more
cereals than any other grain-poducing cereals than any other grain-producing
country in the world Bucharest, in which most of the rich
estate-owners live has been one richest, most beautiful and most modern cities in Europe, noted for its fine hotels and theaters. . The government of
the country has been administered by a constitutional monarch and a parlia-
ment. Military service has been comment. Military service has been com-
pulsory.
The objected to having their country classed as one of the Balkan States, considering themselves quite in advance of the
Bulgars, Serbs and even Greeks. AlButgars, Serbs and even Greeks. Al-
though their country has been torn asunder again aund again, they have managed to remain intact as a a race, and
their reasons for entering the present war were: (1) the fear of strangulation should they not be on the side of the
winners, and (2) the hope of regaining
some part of some part of their lost territory, for
in times past Bessarabia-the of all the provinces-had been taken by Kussia, Bukowina by Austria, and Transylvania by Hungary. In Bessarabia Roumanians, in Transylvania 60 per but the grip of the Slav and the Teuton The present king, Ferdinand, is a son of the famous King Carol, to whom the prosperity of Roumania was largely due.
He was a Hohenzollern, sent forty years ago, to rule the land, and crowned,
after the battle of Plevna, which waged against the Turks, with a steel crown made of bits of captured " cannon.
His wife was the accomplishod "C The wife of King Ferdinand is an English princess, daughter of the Duke of Elin-

## Salonika.

present time, in addition to the popAllied army of 800,000 men, who have been kept there, continually augmenting most part inactive waiting for some the tingency unsuspected and incapable of being fathomed by those not initiated into the secrets of the military situation.
It was impossible that a city possessing such advantages strategically should escape much bandying about of war. The ancient city, in 512 B . C., fell into the one, founded 315 B. C. by King Kassander who named it after his wife, Thessalonike, and by the Normans in 1185, but during all these years it was, for one reason or other, the scene of events, interesting
in other ways than military. Famous in other ways than military. Famous men lived there, among them Cicero,
when in exile, and St. Paul, whose letter to the Thessalonians we know; the a colonnade nero decorated the city with At last the whole district fell into the hands of the Turks and remained thus hat period outbreaks of rebelt end of thick and fast. In 1909 the young Tam movement at Constantinople resulted in the dethronement of "the sick man
of Europe," Abdul Hamid II, who was of Europe, "Abdul Hamid II, who was arly a prisoner in a palace for over 1912 and the outbreak of the Balkan war, when Abdul was taken back to Constantinople. A few weeks later the Gieeks entered the city, and the treaty
signed at Bucharest in 1913 confirmed

There are even yet many interesting marks of this long and eventful history in Salonika. The main street is a and runs at one point under Bosphorus, arch believed to have been erected by the Roman Galerius in A. D. 296. About which are, however, gradually being torn old churches interesting of all, are the after having been used as Mohammedan mosques for 500 years. Some of them
are very beautiful, and are decorated with Byzantine mosaic, now a lost art.
It is to be hoped that the fickle fortunes of war will spare this beautiful spot,
with its many traces of the mity With its many traces of the mighty
minds of past ages.

Athens of To-day.

## Athens, like Salonika, is a city in which to-day runs hand in hand with two theusand year

 two theusand years ago and more,modern buildings and modern improvemonuments of past history. Iil no other monuments so beautiful and so wond these indced modern architects, even the best that our civilization has even the tion and almost awe, marvelling at the skill and inspiration with which the architects of the old time here worked perfection of proportion. of the crowning glory is the old temple Acropolis, whose proportions hill of the pillars and docorated frieze have been can achieve. It was designed by art architects Ictinus and Callicrates, and in 438 B. C. The the goddess Athena in 438 B. C. The frieze which runs the roof, is 524 feet lons and just beneath inches wide, its decoration in bas-relief representing the festal procession that ascended the Acropolis to procession that
by the virgins of Athens,-a wonderful
medley of plunging horses, robed Athenians, flower-wreathed cattle and dancing votaries. Accurate measurement has shown that in all the great Partheron
there is not a single absolutely straight line. The pillars bulge very slightly at the centre, all the lines everywhere curve, imperceptibly to the casual sightseer, yet in such a way as to form a
perfect model of grace and beauty. The Parthenon has suffered comparatively little with the ravages of time, and so sensible are the Greeks of its worth nations, in case Athens should fall warring the pall of war, to spare her antiquities At the foot of the Acropolis hill as beautiful as those of huge pillars the ruins of the ancient Temple Jupiter, and not far away is the old Theater of Dionysus, in its proportions even yet the model play house of the world. in startling contrast, inof paganism is the magnificent relics of paganism, is the eminence called
the Hill of Mars, crowned by the huge rock from which Saint Paul proclaimed the "Unknown God." be seen in the Arch of Hadrian, yat the great aqueduct finished A. D. 146, supply, so honest and strong water the work of those old builders.
Every year relics and fragments standpoint, are dug up about antiquarian and, indeed, in many about the city, whice, and these are placed in museums, which are kept open for inspection or
study without fee. One point of pilgrimage for tourists which must not be forgotten is the prison a rock-hewn chamber with iron-barred while living in pagan times remembered, idea of immortality and a supreme ruler of the Universe, but supreme scoff at the popular gods. For this he was imprisoned and condemned to
drink a cup of the poison hemlock; his soul was not conquered, he spent the night before his death talking with his The on the soul and its deathlessness, have dated sinceits passing from the contro of the Turks, at which time, it is said the revolt that finally developed into the
War for Independence was by an Archbishop of the whurch, organized from his cell in the monastery at Kalavitra, Passing out from the city one finds that the country is essentially agricultural, although the methods are scarcely anywhere so modern as on the
estates of Roumania, partly, no doubt,
because of because of the fact that so many of the It is told that upon anca and elsewhere Themistocles arrived in port with 800 "pile" and returned to set up business On their own account in the old home had struck deep. more progressive land took a look at the villages and farms 80 their childhood then put for the shore same boat on which America on the So great indeed has been this come. from the rural parts of Greecethat in many places the ploughing, sowing, harvesting and road-making are done almost exAnother deterrent to women.
in Attica is the sharp division of in year into the dry season from May to October, and the wet season from October to May; on the Greek islands the rainfall
is better distributed. But the climate is not very cold on the whole and palms grow readily. During the summer the dryness readily. During the

## JAN all <br> all and Th whol nobi stitu mart king cultu izing perin Con his troo <br> but rece a d <br>  <br> peop caree Idea <br> zant allu has <br> Bulg terri <br> 

all meals are eaten on the housetops The people of Greece are, on the The people of Greece are, on the
whole, very democratic, and titles of nobility are forbidden by the Con-
stitution. The men are generally of martial spirit, and whereas the late
king encouraged, most of all, agriking encouraged, most of all, agri-
culture, owning a farm himself and organzing Agricultural Societies and Ex perimental Stations, the present king,
Constantine, is distinctly military in his sympathies, and has brought the troopsto a high state of military efficiency. Ordinary labor, however, is held at
but low monetary value, day-laborers but dow monetary value, day-laborers a day, and skilled laborers about double

A man who had spent four years
in Greece stated recently in the National Geographic Magazine, in speaking of the intense patriotism of the Greek
people, that they have throughout their career, been possessed of one "Great
Idea," viz. the re-creation of the Ry zantine Empire, "a dream of dazzling
allurement, and one for which Hellenism allurement, and one for which Hellenism
has made tremendous sacrifices," as for has made tremendous sacrifces, as for
instance, in the fierce raids against instance, in the fierce raids against territory to Greece in the north. Yet Venizelos has come out, evidently looking upon the king as an adherent of the
Hohenzollerns, because of his wife, holding that the only hope for an independent that the only hope for an independent has had his followers, who have joined him with a "rebel" army at Salonika. To Constantine, on the other hand,
it inust have been bitter to see. French it must have been bitter to see. French
and English armies on his soil, the ships of the Allies blockading his ports, and their Ambassadors dictating in regard to the arming and disposition of his troops. And yet the distrust of the
Allies in regard to Constantine made Allies in regard to Constantine m
these measures necessary. "At the beginning of the war the Allies offered to Greece Smyrna, the coast of
Magna Graecia, which had been Greek at the dawn of history; islands of the Aegean Sea held by Italy, and the British
island of Cyprus. More than 2000,000 Greeks, the commanding than $2,000,000$ Aegean, a future in Asia Minor, were the prizes offered to Constantine.-
But the Hellenic monarch was a fieldBut the Hellenic monarch was a field-
marshal in his brother-in-law's army; marshal in his brother-in-law's army;
he was convinced as a soldier and as he was convinced as a soldier and as
a statesman that German victory was inevitable. So it was that Constantine "sat on the fence," and, although his people were sworn enemies of the Bulgars, permitted them, despite the warning
of Venizelos, to take Serbian Macedonia and wage disastrous war against the Constantine's attitude has no doubt been one of the reasons why the great
army of the Allies at Salonika has been held there instead of striking decisive
blows northward against the Bulgars

Red Cross and C. W. G. A.
Shall We Forsake France.
BY Marian Keith.
press secy., london red cross A recent number of that nonsensical
periodical which is often so profoundly wise, "Life", mentioned a few of the
things for which the American nation should return thanks to Providence First came "The Atlantic Ocean," "France." If this is true of the American nation it is doubly true of Canada.
These three great barriers between us and the most ruthless enemy that hate of thanksgiving from humble and chorus Canadian hearts.
Where would we be to-day but for the gallant French army that bore the burden and heat of the awful struggle
at Verdun? Listen to what an English poet has said of France:

And tyrant Wrong, "Death and Night Turn her no inch from Truth and Right; Hell storms her, but she does not cow'r,
Death smites her, but she stands more strong;
She is the Dawn that comes with pow'r She is the Spring that comes with song!"

No words can picture what she is
suffering; her villages are hospitals, the relief of pain, her soldiers march doggedly to the trenches in rags, her women are toiling in the fields, and yet vincible. Are we worthy to stand up with such an ally? No one can doubt
that our men are. They have endured the horrors of the trenches as unflinchingly and have fought just as gloriously. stand shoulder to Canada, are we able to of France? Let us look at our record.
An extract from a letter of our Secretary at Red Cross Headquarters will serve "It has been unfortunately. necessary for us to reduce our gift of
five thousand cases a month to France. owing to the diminution of stores in reserve in our warehouses. It is impossi-
ble for us to allow our supplies to entirely distributed as we are bound to have a reserve for the use of the as the Canadian hospitals are the first charge of our supplies."
Major Blaylock, Assistant Commissioner of the Canadian Red Cross: There is no doubt that many of the
voluntary hospitals in France are much in want, and I gathered that they would have the greatest difficulty in
carrying on if it were not for outside carrying on if it were not for outside
assistance, and we are, from what they said, the largest contributor.
"They are particularly in need of
socks, sheets, pyjamas, sweaters, underwear, pillowcases, towels, shirts, dressinggowns, blankets, mufflers, slippers,
pillows and, in short, bedding and warm clothes." This, then is what we are doing for France. In our day of plenty we gave very generous in consequence, and felt

The National Bank, Bucharest, Roumania.

In the pressure of our growing need, w dithdraw the much needed help, saving those gallant French soldiers. The
offlials at Red Cross Headquarters are quite right in with-holding supplies from our allay, when our own store-
houses are in danger of becoming empty, They dare not run the risk of finding t adequate supplies And yet, we dare not forsake France Surely it is not possible that we should allow this cruel thing to happen. We would show. It cannot be that the women of Canada could rest in their warm beds at night while the wounded heroes of France go uncovered. The only way to help is to so flood our
Red Cross and C. W. C. A. storerooms with supplies, that they will have to send some to France just to get rid of
them. We can do it if we will. We women of Canada have not begun to sense even dimly the meaning of that word sacrifice. Look at the pitiful
list of the needs of the French hospitals, the barest necessities, chiefly warm clothes! And we, upon whom they
depend principally, are withdrawing our support!

What shall we say to France, in this unworthy to stand by her side in this awful struggle for Liberty? The women

## Hope's Quiet Hour

## Bring the Children

lim, that He should touch them young to Mark $10: 13$.
crowd of listeners; some were eagerly drinking in His inspiring words, while others were as eagerly watching for a thance to find fault. The Pharisees had
tried to entrap Him by asking whether divorce were lawful or not; and the question drew forth a beautiful description of Christian marriage as superior to the "harem" plan of Orientals, as light is uperior to darkness. Perhaps the pic
ture He drew of the loveliness of God's dea of marriage of the two whom God Himself joined as one-roused the courage of the mothers in the crowd. They were o accustomed to be kept in the backpround; that this conception of marriage The heart of a real mother is little men cerned about her own rights, but she is very jealous for her children's rights. Perhaps one mother, forgetting how people o the Master and held up her child for th o the Master and held up her child for the were encouraged by her boldness, and probably the sermon on marriage was in errupted by the laughter of hittle childre and the stormy crying of some who clung
strangers. The disciples stedden fear of maintain order. Their Master must not enterrupted in this fashion. He was should keep in the background. But indeed " "teir thought differently. He was, dignation was not against the mothers and children, but against his too-officious asked and disciples. The mothers only stooped to lift the little ones in His arms, tenderly saying those marvellous words which have rung like a chime of "Christmas
bells through the centuries: "Suffer the little children to come unto Me, and forbid them not: for of such is the kingdom Let us be careful lest we arouse the displeasure of our Lord by trying to keep
the children from Him. When the mothers bring them to church they may be sure of Christ's pleased welcome, but they are apt to feel the disapproval of the congregation. "The children fidget so, how minds upon the prayers?" One child can distract the attention of dozens of grown-up people. Yes, but " of such is the
kingdom." Grown-up people cannot even kingdom." Grown-up people cannot even
enter the kingdom unless they come as

little children. It is we who are there on sufferance, not they.
How glad those Jewish mothers must have been that they had seized the opportunity of bringing their children to
Christ. How thankful those children would be when they grew old children understand the privilege which had been theirs, to know that they had been held in the arms of the Saviour of the world, and that the benediction of His touch still lingere upon their heads
changed He is waitie children has not to gather them to His heart. When the babies are brought to Him at the font, for baptism, there is no fear of His refusing them. But there is fear that He wilfuly or thourhtlessly keep themeway The children love to sing:
"I wish that His hands had been placed That His arm had been thrown around And that I might have seen His kind look when He said,
Let the little ones come unto Me.'
That desire need not be an empty wish in the children may be placed in His arms that we unconscious infancy-who are we and they may have to hold them back?touch every time they kneel at His feet in prayer.

Golden head so lowly bending: Dewy eyes, half shut, half openedLisping out her evening prayer. Well she knows when she is saying, Tis to God she is praying Praying Him her soul to keep Half asleep, and murmuring faintly, Tiny fingers clasped so faintlyTiny fingers clasped so faintly-
II pray the Lord my soul to take, 0 the rapture, sweet, unbroken, Of the soul who wrote that prayer! Children's myriad voices floating Up to heaven, record it there
If, of all that has been written, I could choose what might be mine It should be that child's petition,
Rising to the throne divine" ising to the throne divine.
A few days ago I saw a little girl who post-office. She was narrow wicket in ledge, with her tiny legs dangling, and singing joyously:

Jesus loves me, this I know
Are you only teaching the children to "say their prayers," or are you bringing speak to Him-to really pray? Do they speak to Him-to really pray? Do they,
think they say their prayers "to mother" $r$ have you opened their co mother, marvellous truth that they are speaking to Him Who can hear and see them though hey cannot see Him? Children can see the invisible more readily than grown people. They realize, better than we do,
that they live in a world of mystery. And they understand clearly the vast difference there is between "saying prayers," with the lips only, and really praying.
Mr. Moody's little son on one occasion went sulkily to bed after refusing to obey sat down on the side of the bed, and the following dialogue ensued:

## Did you pray to-night?

## I said my prayers

"I told you that I said my prayers" The conscience-stricken child, whay? knew that he could not pray while he was feeling angry and rebellious, pleaded to see his mother. He made his peace with d and really If you have the opportunity of in sigh for a "great mission," for a need not opportunity is already beside you. The strong imagination of childhood makes the unseen very real to the little ones. It is service for their Lord to do little acts o naturally and reverently and to fight rea battles against bad temper, selfishness or vanity, remembering that they are soldiers But you cannot bring the children to Christ unless you come with them yourself. You cannot inspire them with love
to Him unless you love Him yourself.

Never imagine that your life is cramped
and commonplace if you have this wonder ful opportunity of service within your reach. When the Master takes the
children into His arms, He looks with kind children into His arms, He looks with kind
approval on those who have taken them approval on those who have taken them,
by the hand and drawn them close to $H$ is by th
side.
"Ye in the fold your task fulfill,
And the Good Shepherd on the hill And the Good Shepherd on the hil rom far, approving see Dora Farncomb.

Gifts.
When the wise men brought their rich gifts-offerings for their King-and gave them, in trust for Him, to a lowly village maiden, she must have felt overwhelmed. The treasure was His, not hers; but on her was laid the responsibility of spending it. Should it buy clothes, to replace the strips of cloth or linen which formed His food? Should it be used to defray the necessary expenses of the hurried flight into Fgypt?
I believe I understand something of her feelings, for "gifts for the King"-from readers of the "Advocate"-have been arriving almost daily during the Christ-
mas season. During the last ten days I mas season. During the last ten days I
have received $\$ 5$ from "a friend who appreciates Hope's Quiet Hour," $\$ 5$ from an old friend in Alberta, and ' $\$ 10$ from a new friend in Alberta- "H. E. H." Two readers sent $\$ 2$ each, and three readers
sent $\$ 1$ each. A little boy-"Bennie B" sent $\$ 1$ each. A little boy-" Bennie B""

- sent his savings ( 50 cents) to brighten some child's Christmas (that will lee spent on a little girl who is never able to walk without crutches, and for several weeks The "Advocate purse" has been filled up again, atter paying out more than
fifty dollars for Christmas cheer to the sick and needy. $\qquad$ meantime I can only than 1916 . In the meantime I can only thank you for your
great and continued kindness and wish , Hope.
The Great Santa Claus Family
Santa Claus has many relations, who are busy at this season scattering seeds of kindness in desert places and making the wilderness blossom as the rose. Scarcely
a day has passed this week without some gifts "for the needy" reaching me from feaders of the Acvocate. One ol friend of mine sent $\$$. for a lonely, strug-
gling, crippled woman whom she helped once before. "Dorris" sent a dollar which wiflece another poor and lonely forty years or more. "B. M. S." sent
five dollars (two for a special five dollars (two tor a special purpose, and
three for (linistmas gifts to the needy) Two sisters sent seven dollars, and "The
Maple I caf coving Circle," Thormbury,
Ont esurprisidme wib clothing to give away at Christmas time Three dollars and 12 at (Chistmas mastockinge.
(filled to the top) with peorl thingo wote


## TheBeaverCircle

## Parody on Longfellow "Hiawatha'

He killed the noble Mudjewas,
With his skin he made him mittens
Made them with the skin side inside
Made them with the skin side outside,
He got the warm side inside,
He to get the warm side inside,
Put the inside skin side outside,
He to get the cold side outside,
Put the warm side, fur side inside,
That's why he put the fur side inside
What
That's why he put the fur side insid
Why he put the skin side outside,
Why he turned them inside outside.
[Note: How many of our Beaver
have read Longfellow's "Hiawatha"?
Little Bits of Fun.
Politeness Returned.-A few days after armer had sold a pig to a neighbor, he little boy sitting on the edge of the pig"How d'ye do, Johnny," said he "How's your pig to-day?" "Oh, pretty well, thank you," replied the boy. "How's all your folks?"-
Harper's.

Our Puzzling Language.-"Now," saic a teacher to his class during a lesson in
English, "can anyone give me a word English, "can anyone give me a word, 'dangerous' full of meaning full of, as ous,' full of hazard?' There was silence in the class for a moment. Then a boy
sitting in the front row put sitting in the front row put up his hand.
"Well,", said the teacher, "what is your "word?" "Please, sir," came the reply,

Vera Costello.
A Bright Little Girl.



## 

## ——"

## 





January 4. 1917
nineteen, with but a few shillings his pocket after paying his way, he
arrived in the island Commonwealth. Cook in a timber-camp, scrub clearer, boundary rider, seaman on a sailing "jobs" that fell to his lot, for he was
will ing to take anything that came along. Often he did not know where his next he was a sheep-driver, and it was months a cold contracted while sleeping in the personality, perseverance and "brains" could not be held back. Ten years
after he landed in Australia he was
returned as one of the members in the New South Wales Parliament, and his political career began. At 36 he was a
member of the Federal Parliament, at 40 a Cabinet Minister, and at 41
Attorney-General. Ten years later he became Prime Minister.

The Ingle Nook.

## Departments: correspondence in this and other (lindy write on one side of paper only. with communications.

 he reammunications. If pen name is also given, will not be published. (3) Whenhat enclosing a letter to be forward
place it in stamped envelope read
(4) Allow one month in this
answers to questions to appear.]

Clothes, Books and Other Matters.
Dear Junia,-Early last spring you
told us you were going to plant moon-
flowers; I've wondered much what sue-
cess you had. "Years and years ago" a certain boy and I, eagerly studying a new
seed catalogue, decided to try mooncal dealers having no seed, we seeds for ten cents. We divided these as evenly as possible without recourse to
Solomon's expedient, but not one grew. Next spring we tried again, eight seeds after allowing ample time for mine to germinate I began to investigate. I found had a tiny sprout which I, alas! had broken. Since then I've read that the seeds
should be soaked in warm, almost hot taking a fine file and making a slight in vision in the outer shell. Will you tell us what success you had? Might I ask "City Woman" just how "up-to-date" a person ought to be? and becoming gown of, say three years
ago, or must I purchase recognition by an exaggeratedly short skirt, a wide, open
throat, and a pair of lofty heels? And placed with another newer creation? placed with another newer creation? be "up-to-date" we shall neglect weightier
matters, and at last find ourselves with "a mind unfurnished and a withered And why should both city and country
woman heap scorn on the " I see many city people wearing them and
looking well dressed, too. Are dressmaker or tailor-made gowns always perfect
in fit? How much time from start to
find finish does it take to get a dress made?
The fact that I can get a ready-made at
one trip -or catalogue-insteed of taking two or
three long dives of town for tiresome fit
tings, is a print very much in favor of Are the most up-to-date books the best
worth reading? Some doubtless are excellent, yet if time for reading is limited,
or even if it is ?'t limited, is it wise to
spend all or much of it in reading books As to sanitation, I confess ignorance,
but plead extenuating circumstances, we do try to keep our water supply pure, from typhoid, for I know cases where one in town and brought it home to the farm with him. I really feel like saying, "you
too," for how many city women understand sanitation? When things go wrong they do as I should do, get a man who
understands the business to look after it. pet a good time discussing gardening poultry, hollyhocks and cats, and I must farmer's husk opens and she gets a glimpse

THE FARMER'S ADVOCATE
unable to express himself as did the on
who lamented crushing the " wee modes crimson-tipped flower;" who dined on
"hamely fare" and wore "odin' grey home-made at that, I suspect.

Rue, O Rue!-rueful indeed was the in each, mut moonflowers! I filed a notch and sent the rest to my mother. One of mine came up all right, but soon like the
rose with "the worm i" the bud," turned up, too, and was growing lustily in a po rejoices ind the name of "Booker T. Wash also, but in a different way, for he climbed up and ate that one off right down to the
root -seeking "light within." no doubt since he had to be all black without. But gain, some day.
made clothes. I'm afraid if I myself had
to take time for fittings I should have go" ike the "baby" in the nursery
rhyme. Luckily I am of the easy size to
be fitted with the Did you ever hear this story?
A three-hundred-pound man stood gaz-
ing longingly at the nice things displayed down sale. A friend stope to inquire if he was thinking of buying shirts or pajamas. Gully. "The only thing that fits me mist-
ready-made is a handkerchief," made things that are both "'headymade things that are both "cheap and
nasty," but I find that you can also get
those that are well-cut, well-made and of good material, very satisfactory once you hooks, eyes and buttons. Of course, you
have to pay quite as much for them as if you got them made to order.
Coming to books-yes, Rue, I really think some of the very latest books are not be? Are men any less clever now, and judging, than they were 50 or 100 years ago? If advantages count, the
balance should swing to the Twentieth balance should swing to the Twentieth
Century. Of course, one needs the literary sense, or-what is next thing to it, comchaff. "Do you know H. G. Wells' new book, "Mr. Britling Sees It Through,"
Hugh Walpole's, "Dark Forest," Marstep," Mildred Aldritch's "Hilltop on the Marne," and "In a French Garden,", Albert Watson's (a Canadian) "Sove eighty of Character," that delightful little
war-book, "Sunny Subaltern", score of other new books that are literayour keen literary and artistic sense (for I
remember you from old "F. A. Literary remember you rom old ". A. Literary delight; Peter Moreen," too, is a joy to those who love the country. And if you care for poetry it beginning to be proud of its poets who are writing this very day, at the top of the
list, in addition to our old friends Carman and Roberts, Service, Watson, Norwood, Marjorie Pickthall, Stringer, the two
Scotus, Campbell, Father Dollard, with many others who are doing creditable Don't you think, Rue, that every one stand public health (including all anitaton) and first aid better than we do?-
I've an ilea! to find some expert who the subject! Thank you, Rue. neath the husk of many farmers you find a
poet. As a rule a farmer wears a husk--
of silence-about such things, a little because such things are very sacred to him, a
little because he is afraid of being laughed at, a little because in working out in the
silence of the fields he is not practiced in words, and finds that the deeper th thought or the emotion the less readily : comes to his lips. Occasionally the hear of the country finds expression, and then Burns, a Th
poet in prose.
What a text you gave me today, Rue

## A Chat About This and That

 Dear Junia,-I hardly know how toa long time I have teen trying to make up my mind to drop in and say a few words;
I can imagine a lot of fine faces and forms sitting in the "Ingle Nook" and saying I want to say how much we enjoy the
book with yellow cover, and try to follow hook with yellow cover, and try to follow
where it leads. It surely does persevere, and cant help but success Hour," which bring pleasure to us all: not forgetting Peter MacArthur with his just splendid talks every week, and wise
"Sandy Fraser" -how I laugh at his quaint sayings sometimes! And those loss over any particular thing, it is, "Where is the Advocate?" It seems to
serve every purpose, for either house or barn, and, Junia, let me say, how we all do ter when I open the paper, there your ar helping us on. I often think of a time, many years ago, of the kindly welcome
you gave me when I was a "stranger" to you and this country You asked me t been long in coming, why, it is just this,
that your fair Canada (and shall I say mine) has taken up so much of our time and interest. We are settled now, thank-
fut to have made good-but I am selfish hl to have made good-b
I was wondering, Junia, after reading some of our boys', essays, would it not
be nice if our girls would give us a few of heir ideas, and so help each ens a few of here are none too old to learn a little very one of the "Ingle Nook" for out contribute an idea, or suggest something, regarding the duty of the girl
on the farm, on taking care of houseon the farm, on taking care of house suppers for our men. You nice, easy have not too many, such a large number our loved ones have gone, perhaps, who can say, never to return, so that one
thought alone should inspire us to care for thought alone should inspire us to care for
those left, even more if that were possible. I amafraid you will think I am wandering, Junia, in this time of sorrow, and stress is very hard to collect one's thoughts, top, hut ind so, and so 1 must really much to be thankful for. Just to think of poor Belgium and France, and even our Ch England! Many would be sad this hay bring . Let us hope the new yea much ing a ray of peace to all those so bring more love and kindness the world

Simeon Co., Ont Lassie"

Your suggestions are excellent, Lassie

## hope many will act on them.

## Letter From Lankshire Lass.

Dear Junia, Hope and all Writers,
How Father Time has hastened on, with How Father Time has hastened on, with
the war still going on! How I feel for ft behind! Mothers, sister as the brave lads now in khaki. And the poor and needy too; now prices are so high this will be hard winter for many crop some farmers will have it hard, as high to be sure, but many farmers have to buy all they need. Yet there is never a cloud without a silver lining, so we can only hope for better crops next year,
and look out now for all the brightness hat can be found and be thankful for only could count them from day to day What grand words, "The story that never grows old, though over and over 'ti
told, the story so dear, bringing heaven So near, sweet story that never grows old.
How I long to serve faithfully through darkness as well as the light. It is very hard to write at all now; I almost gave up
trying to write this letter, but felt I must try, so you all will know my flowers and I
are still here and thankful indeed each one who so kindly wrote or rememglad to write to each one but it is imppossible, so dears you will forgive me for I get so lonely. I am e never able to read much. My flowers are blooming them. Jack frost will not trouble receipts were good, and so were others of different things. Was so glad to see her nice little stories? Bernice, too, where art thou? and so many old friends of the Nook.
To any one who has children subject to
croup I have an old, tried rem teaspoon of alum ground fine and mix to child who has croup, it will give relief right away. They will likely "throw retie and if they do not it helps them any way and they fall asleep. Another cure is Before I close will give a che
ed and very good cookie receipt now eggs are dear cream, one small teaspoon soda, one tea spoon cinnamon, a little salt, add cur rants if you wish, flour to mix, and sprinkle granulated
in cakes. Please will anyone who writes me sign name and address? I enjoy letters better if name is added. Lankshire Lass. In regard to your query about the
gramophone record, Lankshire Lass, would say that any music dealer could probably supply it. Most of them keep Harry Lauder's songs, and would pro
bly have "Bonnie Leezie Lindsay.").

Plants, Etc
Dear Junia,-Is it unhealthy to sleep in
a room where there are a lot of house plants? Will it prevent flowers from freezing -in a cool room-if water is kept
in it? If so, should the water be cold or hot, and would a pailful be sufficient? I would be very thankful for light on this subject, as I have lovely flowers, 26 different kinds of ferns. Is paraffine and turpentine good to use on hard-wood floor and oilcloth and should it be used equal parts? What will sink? We could not keep house without The Farmer's Advocate. I turn to it for information on all subjects. Could any-
one tell me where I could get words and one tell me where I could "get words and
music of the old song, "Remember or Briar Rose.
As house-plants exhale carbonic acid gas during the night it is as well not to have too many of them in one's sleeping room. A few will do no harm
In a very cold room one could scarcely depend on a pail of water to prevent frost. A good idea is to line a very large packing
box well with two or three thicknesses of paper. Invert the box, put a pretty cover over, and, in daytime, keep the plants on it. At night spread papers or and put the box over the top. It should be as high as an ordinary table. do not know about the floor coating you mention. Very excellent mixtures or the purpose are sold at any good hardware store.
Dutch cleanser or powdered ammonia will clean an enamel sink perfectly will clean an enameled sink perfectly.
Apply with a damp cloth, then wash off with clear water

## Seasonable Cookery.

"Mother's" Apple Pie. -Make a good
pastry with 2 cups flour, $1 / 2$ cup shortenwater. Mix to a dough with a knife never knead pie pastry as it makes it hard) roll out and line a large pie plate, then fill the dish with sliced apples, then fill the dish with sliced apples,
rounding them up high. Dredge slightly
a th with salt, add 3 tablespoons water, and fit
on the top crust without pressing it down much at the edges. Let bake about 25 much at the edges. Let bake about 25
minutes, then lift off the top crust, and to the apple add 1 cup sugar, 2 or 3 tablespoons butter and a grating of nutmeg. Set the upper crust in place and serve at
once, with sugar and cream. Very deApples Baked in Bean Pot.-Pare, core and slice about 2 quarts apples, and put them in an earthen or granite dish with a cover, alternately with $11 / 2$ cups sugar
sprinkled in. Add $1 / 4$ cup cold water, cover and bake in a very moderate oven without cream.
Ginger Sponge.-One-eighth lb, butter 2 eggs, 1 small cup sugar, $1 / 2$ cup treacle,
$11 / 2$ cup flour, 1 teaspoon each ginger and allspice, $1 / 2$ cup milk, a little grated nut-
meg, 1 teaspoon soda. Beat butter and sugar to a cream. Break in the eggs and beat well. Next add treacle and beat gain. Sift in the dry ingredients, and oblong pans, when cold put whipped cream between and on top, and decorate fth bits of preserved ginger.
ret."
se.
$\square$ ter. Mix to a dough with a poons butter and a grating of nutmeg ocolate Pudding. -Two tablespoons


butter creamed with $1 / 2$ cup sugar， 1 egg，
generous square，melted chocolate， $1 / 2$ cup generous square，melted choocolate， $1 / 2$ cup
milk．Sift together 1 cup four，
spoon cream of tartar， 1 teat teaspoon soda， pinch salt，and add to above mixture．
Steam $11 / 2$ to 2 hours and serve with Steam $11 / 2$ to 2 hours and
whiped cream or creamy sauce．
Creamy Sauce．－Work $1 / 4 \mathrm{lb}$ ．butter until creamy and add gradually，beating
all the time， 1 cup powdered suyar：then all the time， 1 cup powdered sugar；then
add $1 / 2$ teaspoon vanilla and $1 / 4$ cup cream beaten stiff．
Rice Griddle Cakes．－Boil $1 / 2$ cup rice．
When cold mix 1 quart sweet milk，yolks of 4 eggs and flour to make a stiff batter Beat the white to a froth，add 1 teaspoon
soda and 2 of cream of tartar 1 letsp soda and 2 of creaites of the egrss．Bale
and lastly the white on a griddle．Spread while hot with
butter and jelly or marmalade，roll them butter and jelly or marmalade，roll them
up，sprinkle with sugar and serve at once． Indian Meal Pudding．－Take 4 table－ spoons tapioca， 4 tablespoons cornmeal，
$2 / 3$ cup molasses， 2 tablespoons butter， 5 cups milk， 2 teaspoons salt， $11 / 2$ cup chop－ ped preserved ginger．Cover the tapioca
with warm water and cook an hour with warm water and cook an hour．
Scald the mill，add the tapioca and cook Scald the milk，add the tapioca and coonk
15 minutes．Mix remaining ingredients， stir into the eapioca mixture and cook
over hot water until thickened，then turn into a buttered baking－dish and bake 3
hours in a slow oven．At end of 2 hours hours in a slow

Baked Onions．－Six large onions（pre
ferably them and cut crosswise in 3 thick slices．
teut into bean－pot coner with biling Put into bean－pot，cover with boiling
salted water，and cook in the oven until tender．Drain，reserving 1 cup of the
liquor．Thicken this with a mixture of $11 /$ L tablespoons butter， $11 / 2$ tablespoons flour， $1 /$ teaspoon salt
pepper all rubbed together．Add teaspon
and perper all rubbed together．Add． 14 cup
rich milk beaten with 1 egy yolk．Heat
well，but do not boil，and serve at once

## The Scrap Bag

Soft Corns．
Every night and morning dip a piece
of soft linen rag in turpentine and wrap it round the toe．The cont will probably

| Scrubbing Brushes． <br> Do not leave scrubbing brushes soaking in the water，as this spoils the bristles． always hang it up while not in use． <br> ＊＊＊＊ <br> A Rattling Window． |
| :---: |
|  |  |
|  |  |
|  |  | To stop the ratling of a window，cut a

clothes peg in halfond and insert tin between
the sash and the frame．Then yor step
won＇t be disturlect on a windy noyl


Our Serial Story
The Brown Mouse．
chapter xil．
A distinct sensation ran through the
Woodruff school，but the schoolmatster
and a group of five big boys and three
girls engaged in a very unclassile con
ference in the back of the arloe con－ all unconscious of it．The geography classes had recited，and the language
work was on．Those too smell Work was on．Those too small for thes
studies were plaving studies were playing a game under
the leadership of Jinnie Simms，who had been promoted to the position of weed－seed monitor．
The game was forfeits．Each child had
been encouraged to been encouraged to bring some sort
of weed from the winter fields－ of weed from the winter fields－pre－ to the dried receptacles－but anyhow，
a weed．Some pupils had brourht a weed．Some pupils had brought
merely empty tassels，some bare stalks， and some seeds which they tad tare stalks， from the grain in their father＇s bins； and with them they played forfeits． an＇＂method，and somebody was＂It．＂ a seed，stalker，or head of of a weed，and if the one who was It could tell the name of the weed，the child who brought
the specimen became It，and the name was written on slates or tablets，and was collected．If any pupil brought in a specimen，the name of which he
himself could not cont amser could not correctly give，he paid in not found in the scchool cabinet－which was coming to contain a considerable
collection－it was placed there，and the task allotted to the best penman in the
school to write its school to write its proper label．All
this caused excitement，and not a little buzz but it ceased when the county
superintendent entered the the superintendent entered the room．
For it avas after the first of Ianuary For it avas after the first of January，
and Jennie was visiting the Woodruff
The group in the back of the room went
on with its conference，oblivivous of the
entrance of Superintendent Jennie．Their entrance of Superintendent Jennie．Their
work was rather absorbing，being no more nor ess than the compilation of
the figures of a cow census of the ＂Altogether，＂said Mary Talcotte＂we
have in the district one hundred and
＂I don＇t make it that，＂said Raymond
Simms．＂I don＇t get but a hundred
and thirty－eight，＂，
＂that troutlet is，＂said Newton Broison，
＂that Marys．s counting in the Bailey
herd of Shorthorns．＂

## interrogated Mary．Cows，aint they？＂ ＂Not for this census，＂said Raymond ＂Why not？＂cusked＂








 after we feve find we could，＂，said jim．＂And
to get enourth will have to go to get cenoulh cows we will have to go
patronized the creameryalf of then
overthe suwins creaner，we＇ll work over the savings the business weuld wark
if we could get the prices for butker eries，as compared with what the central－ izers pay us，on a basis of the central－
months．Who six months．Who＇s in possession of that
correspondence
with
＂I have it，＂said Raymond．＂I＇m
hectographing a lot of arithmetic problems hectographing a lot of arithmetic problems
from it．＂ How do you do，Mr．Irwin！＂ was the superintendent who spoke．
Jim＇s brain whirled little prismatic clouds before his vision，as he rose and shook Jennie＇s extended hand．
＂Let me give you a chair，＂sai

Let me give you a chair，＂said he．
Oh，no，thank you！＂she returned． ＇I＇ll＇just make myself at home．I know my way about in this schoolhouse，
you know！＂ She smiled at the children，and went about looking at their work－which
was not noticeably disturbed，by reason of the fact that visitors were much more frequent now than ever before， Woodruff was no novelty，since they had known her all their lives，Most of
the embarrassment was Jim＇s．He rose the embarrassment was Jim＇s．He rose
to the occasion，however，went through the routine of the closing day，and dis－ the routine of the closing day，and dis－
missed the flock，not omitting making an engagement with a group of boys
for that evening to come back and work or that evening to come back and work
on the formalin treatment for smut in seed grains，and the
treatment for seed potatoes
said he to the county superintenden， said he to the county superintengent，
＂in the regular class work－and it＇s ＂in the regular class work－and it＇s
getting time to take them up if we are crop．＂＇
They repeated Whittier＇s Corn Song in Concert，and school was out．
Jim confronted Jennie in holhouse She felt a sense of his agitation，but if she had known the power of it，she would have been astonished．Since that
Christmas afternoon when she had Christmas afternoon when she had
undertaken to follow Mr．Peterson＇s advice and line Yim Irwin up，Jim had gone through an inward transformation
He had He had passed from a late，cold，back－
ward sexual spring，into a warm June amid roses and lilies with Iennie was in love with her．He knew how insane it was，how much less than nothing had
taken place in his circumstances taken place in his circumstances to justify
the hope that he could ever from the state in which she would not say＂Humph！＂at the thought that he could marry her or any one else． et，he had made up his mind that he
would marry Jennie Woodruff． She ought never have tried to line
up．She knew not what she did． He saw her through clouds of rose and $\begin{array}{ll}\text { pink；} & \text { but she looked at him as at a } \\ \text { foolish man who was making trouble }\end{array}$ for her，chasing rainbows at her expense and deeply vexing her．She was in a
cold，official frame ter cold，official frame of mind．
＂Jim，＂said she，＂do you know that ＂Trouble，＂said Jim，＂is the natural
condition of a man in my state of mind But it is going to be a delicious mort．

## she replied in know what you mean，＂

＂igned，＂，stood by and saw the contract signed，said Jim，＂and－yes，Jennie，
I am dealing in sophistry！I got the
school by a sort of school by a sort of shell－game which the board worked on themselves．But is against me．I believe the people are for me，now，Jennie．I really do！＂ Jennie rose and walked to the rear of spoke，there was decision in her tone ＂and Jim felt that it was hostile decision． ＂my relations with the district arandly， the school board on the one hand with with your competency as a teacher on the other．＂

$$
\begin{aligned}
& \text { "Has it come to that?" asked Jim. } \\
& \text { "Well, I have rather expected it.". } \\
& \text { His }
\end{aligned}
$$ His tone was weary．The Lincol．＂ droop in his great，sad，mournful mouth accentuated the resemblance to the martyr president．Possibly his feelings

were not entirely were not entirely different from those
experienced by Lincoln at some of doubt，misunderstanding and crises pression．＂If you can＇t change your methods，＂ said Jennie，＂I suggest that you resign．＂ changing my methods would appease the men who feel that they are made laughing－stocks by having elected me？！＇ Jennie was silent；for she knew that the school board meant to pursue their policy
of getting rid of the accidental regardless of his methods．
＂They would never call off their dogs， said They would never call off their dogs，＂ ＂＂But your methods would make said Jennie． asked Jim． ＂A formal complaint against for incompetency，＂she replied，＂Has been lodged in my office，signed by the three directors．＂I shall be obliged to＂And notice of it．＂ ＂that my aboudonment of the things would prove to your mind that attac competent？，＂Or would it show me

> Again Jennie was silent，

＂I guess，＂said Jim，＂that we＇ll have，
o stand or fall on things as they are＂，
Dennic you refuse to resign？＂asked
＂Sometimes I think it＇s not worth yet，I believe that in my way I＇m working on the question which must be solved of making the farm and－the question they should be and may well be．At this moment，I feel like surrendering for your sake more than mine；but I＇ll
have to think about it．Suppose I re－ fuse to resign？＂＂ $\begin{aligned} & \text { Jennie had drawn on her gloves，and }\end{aligned}$ stood ready for departure．
＂Unless you resign before the and fifth，＂said she，＂I shall hear the twenty－ will be allowed to be present and answer the charges against you．The charges
are incompetency．I bid you good
$\qquad$ word，representing everything he had
always despised，rang through Jim＇s mind as he walked home．He could think of nothing else as he sat at the simple supper which he could scarcely taste．
Incompetent！Well，had he not always been incompetent，excent in always of his muscles？Had he not always as foreign to life and common sense What reason was there for the earth？ that this crusade of his for better schools had any sounder foundation than his
dream of being president，or painter，or a poet or noveclist or or a a great as was just a hayseed，a rube，a misflt He was incompetent．He picked up a pen，and began writing．He wrote ucation of the Independent District Ed ＂And he heard a tap at the door His mother admitted a tap at the door． ＂Hello，Jim，said he．
＂Good evening，Colonel，＂said Jim． ＂Take a chair，won＇t you？＂
I＇d soe，if replied the colonel．＂I thought house can＇t and the boys at the school smut in my wheat something about the going to work on that I heard you were going to work on that to－aright．＂
＂I had forgotten！＂said lim．
＂I


4

## JA



Jandary 4, 1917
the colonel, " and so I came by for you.
I was waiting up the road. Come on, and ride up with me.
The colonel had
The colonel had always been friendly,
but there was a new note in his but there was a new note in his manner
to-night. He was almost deferential If he had been talking to Senator Cummins or the president of the state university,
his tone could not have been more courteous, more carefulto preserve theamenities with the class on the problem of smut He offered to aid the boys in every possible way in their campaign against
scab in potatoes. He sugrested some scab in potatoes. He suggested some
tests which would show the real value of the treatment. The boys were in a glow of pride at this co-operation with
Colonel Woodruff. This was real work! $J \mathrm{jim}$ and the colonel went away to "Jim," said the colonel, "can these kids spell?"
"You mean these boys?"
"I mean the school."
outspell any school about here "they can Good, said the colonel. How are they about reading aloud?" "Better than they were when I took "How about arithmetic and the other branches? Have you sort of kept them "I have carried them in a course parallel to the text-books," said Jim, it has been vocational work, you know I' "Well," said the colonel, "if I were you, ext-books for a few days -say between
"Ol, nothing just to plase mee And say, Jim, I glanced
over a communication you have started
ore the more or less Honorable Board of "Education." "Well, don't finish it. And And say, "Yes,", said Jim, dazed. "And if you think, Jim, that you've
got no friends just remember that I'm "Thank you Colonel."
"And we'll show them they're in a horse race,
"I don't see. . ${ }^{\text {Poure not supposed to said Jim. }}$," said the colonel, "but you can bet that by thunder! while they're getting a full
meal, we'll get at least a lunch. See?" meal, we'll get at least a lunch. See?"
"But, Jennie says," began Jim.
"Dont the colonel. "She's acting according
to her judgment, and her lights and other organs of perception, and I don't think it fittin' that her father should try to go on and review them common branches, and keep your nerve. I haven't felt
so much like a scrap since the day we stormed Lookout Mountain. I kinder
like being a wild-eyed reformer, Jim."

## CHAPTER XIII

FAME OR NOTORIETY The office of county superintendent was, as a matter of course, the least
desirable room of the court-house. I
say "room" advisedly, because it consay "room" advisedly, because it con-
sisted of a single chamber of moderate size, provided with office furniture of age. It opened off the central hall at the upper end of the stairway which
led to the court room, and when court led to the court room, and when court
was in session, served the extraordinary needs of justice as a jury room. At such times the county superintendent's
desk was removed to the hall, where it stood in a noisy and confusing but very democratic publicity. Superintendent
Jennie might have anticipated the time when during the March term, offenders pa*ing from the county jail in the basement to arraignment at the bar of justice,
might be able to peek over her shoulders and criticize her method of treating fifth of February, however, this ex-
perience lurked unsuspected in her official future
Poor Jennie! She anticipated nothing
morethan theapnearance of Mossrs Bron son, Peterson and Bonner in her office, to
confront Iim Irwin on certain questions of fact relating to Jim's competency to holda

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P

Write at tod
teacher's certificate. The time appointed was ten oclock. At nine forty-five Corne-
lius Bonner and his wife entered the office, and took twenty-five per cent. of came in, haggard, weather-beaten and seedy as ever, and looked as if he had
neither stabbed hiten nor slept since his sweetheart Peterson and Ezra Bronson came in accomwho carried bur Smythe, attorney-at-law, a compilation of the school laws of the state, and Throop on Public Officers.
At nine fifty-six, therefore, the crowd in Jennie's office exceeded its seating capacity, and Jennie was in a flutter as the realization dawned upon her that this promised to be a bigger and more
public affair than she had anticipated public affair than she had anticipated.
At nine fifty-nine Raymond Simms opened the office door and there filed in enough children, large and small,
some of them accompanied by their parents, and all belonging to the Woodstices of the corners and angles of the room and between the legs of the grownups. In addition, there remained an
overflow meeting in the hall, under overflow meeting in the hall, under
the command of that distinguished military gentleman, Colonel Albert Wood-
ruff. "Say, Bill, come here!" said the colonel,' crooking his finger at the deputy
sheriff. "What you got here, Al!" said Bill, coming up the stairs, puffing. "Ain't
it a little early for Sunday-school picnics? "This is a school fight in our district," said the colonel. "It's Jennie's baptism of fire, I reckon. and say you'r
not using, the court room, are you?" "Wope," said Bill. just slip aroun then," said the colonel, and tell Jennie she'd better adjourn to the big room.
Which suggestion was acted upon instanter by Deputy Bill.; said Jennie "But I can't, I can't," said Jennie
to the courteous deputy sheriff. "I don't want all this publicity, and I don't "I to go into the court room. how you can avoid it. These people seem to have business with you, and "But they have no business with me," said Jennie. "It's mere curiosity. Whereupon Wilbur Smythe, who could see no particular
publicity, said, "Madame County intendent, this hearing certainly is public or quasi-public. Your office is a public one, and while the right to attend this hearing may not possibly be a universal
one, it surely is one belonging to every anizen and taxpayer of the county and if the taxpayer, qua taxpayer, then
certainly a fortiori to the members of he Woodruff, school and residents of Jennie quailed. "All right, all right!"
said she. "But, shall I have to sit "You will find it by far the most Was this the life to which public office had brought her? Was it for thi



For


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Jandary 4, 1917


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$\left|\begin{array}{l}\text { all right. But we'tl get this guy yet, } \\ \text { dont' fail down and fergit that ! } \\ \text { " 'The examinations tind to show, }\end{array}\right|$ "' The examinations tind to show,'
said Mr. Bonner, when asked for his said. Mr. Bonner, when asked for his
opinion on the result, 'that in or-r-rder opinion on the result, "that in or---r-rer
to larn anything you shud shtudy some-;
thin thin' ilse, But we'll git this guy yit!' '
"'Jim," said Colonel Woodruff, they rode home together, "the next
heat is the schol election "Weer heat is the school election. "We've
got to control that board next yeargot
and we've got to do it by electing one out " of three."
"Is that a possibility?" asked Jim.
"Aren't we sure to be defeated at last? "Aren't we sure to be defeated at last?
Shouldn't I quit at the end of my contract? All I ever hoped for was to be allowed
to fulfill that. And is it worth the fight?", "It's not only possible," replied the colonel, "but probable. As for being
worth while why this thing in big to drop. I'm just beginning to understand what you're driving at
And I like being a wild-eyed reformer more and more.,

The Dollar Chain
A fund maintained by readers of "The
Farmer's Advocate and Home MagaFarmer's Advocate and Home Maga-
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Dollar Chain contributors are continually engazed in war the various organizations ot is greaty appreciated, and is mak

Current Events.
leath of two eminent Canadians, Hon, died at his home in Ottawa, and J'ames oronto from 1892 to 1906, who died at
his home in Toronto

The Trappist Monastery and Chapel $\$ 100,000$, were destroyed by fire.

Mlants in I..orraine, fulso the Turk camp and

Galata on the far-away Gallipoli Roumania, General Mackensen 1steverist to pusach the torard in his evident desire Galatz, but when he reaches them the stores, in all probability, will have been remmoved or destroyed. In the Valley of
the Re Russians again defeated, the Germans claiming the capture of 9,000 prisoners. In Greece however, things look somewhat brighte lized bulk of the army is being cemori Allies. This will the demands of the flank of General Sarrail's army at Salonika. In the still farther east the British are vigorously continuing their
campaign towards Kut-el-Amera Tigris, advancing army under Grand Duke Nicholas is southeast of the Black Se


Advertisements will be ineserted under this
heading such as
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 THREE HUNDRED AND TWENTY ACRES
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fetherstonthaugi \& CO., Patente



MAIL CONTRACT


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MAIL CONTRACT SEALED TENDERS, addressed to the Post-
master General, will be, received at Ottawaunti)
nond noon on Triday, the sth day of Febrrary 1917 ,
for the conveyance of His Majestys Mails, on
ore







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"I $\operatorname{larm}^{*} 2 a$
day at home"
yanay abay way
Craigielea Farm


sust Hill, C.P.R. Home 'phone. Bell connection
Jandary 4, 1917

THE FARMER'S ADVOCATE.
Patient Kine-Contented Kine.
One day a lady called us up on the telephone. "Is this the-Dairy?" she
asked. "Yes, mum," I said, "What can we do for you?" "I just wanted to ask you, she said-"Now, I know you'll
say I'm silly, but I was just reading-I'm Mrs. --, you know, we buy our milk from you and it's so important, you see the baby is only three weeks old-now
tell me please, are your cows content tell me please, are your cows contented they say it makes such a difference-
She paused. "Well now I'll tell Mrs. Mrs. 1 m just a bookkeeper he that I don't see a cow, but you just hold the line a moment and I'll go and se about it. I understand how you feel
about this: you see I'm myself and-you just hold the line and I'll be back in a few minutes." Carefully ( covered the transmitter with the palm of my hand. "Bill," I said, in a heavy whisper, "here's a lady wants to"know it sur cows are contented. What"are you to tell her? It's none of my butt in what are you going to tell her yourself? Better run up to Tarrytown, that's where nifle with me son" "I said "" "Don' You see the baby is only three weeks old Come on, hurry up, make up a lie; you're a dandy liar. You can lie circles around me. Here, you take the phone." It
lay with me though to assure the lady they hadn't a worry in the world, that life nithem was one grand sweet song. MM
imagination ran riot; anyway I reassured the lady, which was the main thing.
"Contented cows," said Bill; "any cow contented cows," said Bill; "any cow
is a tontented cow if she has her belly
full", "Is that s."1 full." "Is that so?" I said. "You may
know a whole lot about milk but you know little about cows. Now at home when was a boy, we had a cow-Rose her name
was. My dad bought her just freshwas. My dad bought her just fresh-
bought calf and all. Talk about milkshe gave an awful bunch, and it was heavy
with cream. She only had three teats with cream. She only had three teats
one of them had got cut off close some how, and that quarter oo son, she didn't
closed up completely. No give twice as much from the remaining quarter, didn't give any more in propor-
tion, I don't suppose. But what I wanted Talk about 'patient kine'-there is no such thing. A cow can have and does hal about the eeast patience or any ani-
mal afloat. This cow now, for instance My dad set out to milk her. He had milked a quart or more-when bang
She caught him a crack with her hind paw, and sent him and the bucket cleat
across the barn. He thought he must have pinched her, but he wasn't taking couldn't kick she started to bellow, and the only way that cow could be milked was ti
tie the calf right under her nose, then tie her front and rear and go to it. We
though she would get over it but she
never did. That calt had to be right with her day and night If we put the over the side and bawl right in his face, go out in the pasture for months, and even
hens she would think of him all of of sudden
and come tearing in two-forty. We stond for it quite a while, then sold her, calf and
all and it wasnt until she was well off the
Il, place that werabeen. Yes, I've read in
element she had ben
story books all about the patient, lowing kine. Take an ox, for instance.
ever try to hitch up and drive a couple of
then thre or four-year--3d steers. It worth
your life. In fact Idon' believe it could
be done at all without one or two old ones to hold them down. Ever try to teach a ometime, and see how gentle and patien
hey are. Take a bunch of thirsty cattle It a well and see how nicely one waits for
he other to drink. ing in any sext time anybody starts ring-
inental stuff about patient
kine youl can put it down that he doesn't now what he is talking about."


## The Windsor Gasoline Engine

 ha built for years HAS BEEN THOROUGHLY TRIEDNEVER FOUND WANTING It is easy to otarat, full of power, ceoromical
and thoroughly practical in every, respect. and thoroughly practical in every, respocmical
is fullyy guaranteed by the manufacturers and
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by us, both as to power developed, and as to
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## 7 m

Where Is He Lame?
 SAVE-The-HORSE

 TROY CHEMICAL CO., 145 Van Horn St.
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Druggists everywhere sell Save-The-Horse Ont with NTRACT or we send by
Post or Express Paid


Dr. Page's English Spavin Cure Cures the lameness from Bone-Spavins, Side
Bones, Ringbones, Curbs, Splints, etc., and


MESSRS. A. J. HICKMAN \& CO., (late
 Of ald dearcipiona, specalty made of draft horkeaid



Ouestions and Answers. $t^{\text {Ost- Questions asked by bona-fide subseribers }}$
 plainly wiestions on one side of the the saper only
and must te accon manied by the full name and
and
 especialty must be folly and clearly stated, other-
wise satisfactory repiec cannot be fth1 When ar reply by mail is. required to
urgent veterinary or legal enquiries, 51.00 must urgent veter
be enclosed.

## Veterinary.

Flat-footed Horse.
I have a flat-footed horse with a very tender spot in the sole of one foot, which occas shoes with leather pads. How can I promote growth of horn on the thin spot?
Ans.-There is no method by which the congenital conformation of the feet can be improved or changed. You are adopting the horny sole is secreted (formed) by the sensitive sole, applications to the wall of the foot or the coronet will have no effect: If you can allow rest and remove
the shoes, you may be able to improve the shoes, you may be abbe to improve
matters by applying poultices of warm, matters by apppying poultices of 10 hours, daily, but when you put him to work again it will be wise to wear leather soles. Bar shoes in winter-time do not give satisfaction when there is snow.

## Miscellaneous

Living up to a Contract.
I employed a ditcher to put in a certain amount of drains, which were to be $21 / 2$
feet deep. I find that in many places feet deep. Inly 18 inches deep, and in no
they are only place are they more than 22 inches. He is likely to demand pay for the $21 / 2$ feet. How should this matter be settled in justice to both parties? R.R. Ans.- If the drains are only 22 inches deep, the ditcher has certainly not
lived up to his contract and would be in a position to charge for a full depth. By digging down every few rods you can secure proof of the average depth of the drain, and if the ditcher is at all reasonable he should be willing
to adjust matters if he has failed to live to adjust matters if he has failed to live
up to the contract. Owing to the up to the contract. Owing to the
contour of the land it is quite possible that, even with a drain that is supposed to be $21 / 2$ feet deep, the tiles would come within 18 inches of the surface in places. Of course, in other places they are likely
to be 3 feet deep or more, in order to have the ditch bottom of a uniform grade. Unless the field is very level, there is bound to be these ups and downs, and when a man contracts for a $21 / 2$-foot
ditch it is generally considered that it will average about that throughout the held. From the information supplied
the ditcher has failed to live up to his contract, and, if he will not come to some agreement with you, you would no
doubt receive justice from the court.

Termination of Lease.
A owned a lot next to mine. Ten her husband and son, but after staying a few months they did not like it and returned to the city. I rented the place,
with the understanding that if they ever decided to sell I was to have first chance of purchasing it. I have two witnesses to the agreement, which was only verbal. She has now sold it without giving me any notice, I having no idea the place was Ior sale. I took possession of the place
on April 1. Can the purchaser of the property put me off without giving six months' notice, from October 1 next?
2. Can he raise the rent?
3. Can I bring action for damages on A for selling without giving me the
first chance, as agreed? Ans. 1.-It will all depend on the Ans. 1. -It will all depend on the the place for a term of years, and it is explicity stated that certain notice must be given from a certain date, it should in the lived up to. If there was nothing in the lease regarding giving notice of can take possession on a month's notice. 2. If there is a written agreement that the rent will be a certain sum for a term of years, he is not justified in raising it, as the sale should have been
made subject to the terms of the lease. 3. No. In order to bring action it would be necessary that you have a written agreement.

## NOTICE!

## TO OUR CUSTOMERS:

Considering the present cost of wire, it is an acknowledged fact that wire fencing is at present being sold at very low prices. Had we to buy wire at prices now prevailing, Page Fence would have to be sold at prices much higher than we are now quoting.
For the immediate present we are selling Page Fence for cash, direct to the user, at low prices. How long we cän do this is highly uncertain. We strongly advise our customers to take advantage of the present opportumity by ordering now such fence as they may require for some time to come.

## The Page Wire Fence Company <br> Lumited. <br> Walkerville, Toronto <br> Montreal, St. John

## The Great Canadian Annual Sale of SHORTHORNS

On Thursday and Friday Feb. 1st and 2nd, 1917

At the Union Stock Yards Toronto, Ont.
In which seven of the leading Canadian breeders will sell One Hundred and Twenty of the best that their herds can furnish.

Bulls that have made good as sires and in the shows. Young bulls fit for anybody. A great array of young cows with calves at foot and near calving. Heifers near calving for the first time. All to the best sires. A lot of young heifers of the most fashionable kind A special feature is the imported bulls and heifers, full of Duthie, Marr, Cruickshank and Campbell blood, with the quality that is needed to make them valuable.

There are some cows with marvelous milk records and a few young bulls
bred from them, such as we have not seen sold before.

Nearly all are of the most fashionable and valuable Scotch breeding. Many of them were winners in past shows, and many are good prospects for future shows.

This sale will be greater and better than those that preceded it.

Robert Miller, J. M. Gardhouse, John Miller, Jr., Kyle Bros., A. F. \& G. Auld, W. R. Elliott \& Sons and George Amos \& Sons will furnish the cattle.

CAREY M. JONES, Chicago, Auctioneer.
ROBERT MILLER, Stouffville, Ontario, Manager of Sale

Escana Farm Shorthorns
FOR SALE-Two imported bulls, proven valuable sires; 12 bulls, 10 to 20 months old, all by imp sires and from high-class dams, secerally suitable for foundation purposes. of very Mail orders a specialty. Satisfaction guaranteed. MITCHELLL BROS.'s. McCrudden, Manager. Farm $1 / 4$ mile from Burlington Jct.

## SPRING VALLEY SHORTHORNS

Herd headed

## Oil Cake Meal (Old Process)

Cotton Seed Meal
Special Price for January
and February Shipments. nd February Shipments. Carlots and less.
Write, 'phone or wire.
The Chisholm Milling Company, Limited

Toronto, Ontarlo

Agricultural Instruction Cars THE GRAND TRUNK RAIL Provincial Department of Agriculture Agricultural College at Guelph Are euipping a couple of bagzaxe
carat to
TR K Kun over the GRND

January 8th to March 14th inclusive．The exhibits are being prepared by the
staff of the Agricultural College and specialists


 labor－aving device will be incuded in the exhibits．
This Miniature Agricultural College and Experimental Farm will be found of great interest to those who are
interested in th eed improven




 Bor the ene ate and women，as well as the boys
and girss，hould find much of interest in the cars．



## ALLOWAY LODGE STOCK FARM

angus southdowns，Colities， PRIZE BULL GAlVES AND

ROBT．McEWEN， $\begin{gathered}\text { R．} \mathrm{R} \text { ．} \\ \text { London }\end{gathered}$
Beaver Hill Aberdeen－Angus Males and females，all ages，for sale．Prices right Cheltenham，CT．R R．R，M，Erin．C．P．R．
$\underset{\substack{\text { Buy } \\ \text { Your }}}{ }$ Seed Oats Now


## Questions and Answers

 Miscellaneous．
## White Diarrhoea．

Is there any preventive measure or remedy for white diarrhoea，and scaly
legs in mature hens？
W．A．B． legs in mature hens？
Ans．－There are several forms ． Ans．－There are several forms of
diarrhoea which arise from different diarrhoea which arise from differen
causes．When the trouble is fist causes．When the trouble is first the
ticed，the birds should be isolated，and the feed troughs and drinking fountains
scalded daily．It is recommended that a scalded daily．It is recommended that a
little potassium permanganate be used in the drinking water，and powdered charcoal mixed with the mash．These are to a de
gree preventive measures．Feed little bran and more shorts．Sour milk is also beneficial．Care should be taken in feed
ing inigested feed setting up irvitasion in th intestines．Administer a teaspoonful of Epsom salts to each bird．This may be done by dissolving the sates in water and mixing in the mash．Medical treatmen
consists bismuth， 3 grains；powdered cinnamon or cloves，one grain；powdered willow char－ coit，grains．Give twice a day mixed in a weak bird．Keep the birds in goood health by proper feed and housing．The
following tonic is fennel，anise，coriander and cinchora－ 30 grains of each．Mix and give in the feed
Scaly legs are working under the scales．Individual treatment is necessary to cure the disease．
Soak the legs and feet in warm，soapy water，then apply some penetrating oil is useful in applying the remedy Orus part oil of caraway to 5 parts vaseline is a good oil to use，or one part kerosene to
two parts raw linseed oil is effective

Walls Under a Shed．
I purpose building two walls under a
shed 24 feet by 40 feet．Would concrete be dry enough and suitable for a horse
stable？ The shed runs north and south，with the horses facing west，and a box stall and harness－room at the south end．Give
ideas how best to fit it up and ventilate it．Hay is on be stored overhead． as far as dampeness is concerned．For a horse stable we would prefer a stone or a
concrete foundation，possibly a couple of feet above ground and build the remainder on umber．It will be drier and healthier
for the horses．The width of the state gives sufficient room for a nice－sized passageway behind the horses，and a good
feed passage．Five feet is about the average width of the stall for horses
Therefore，you could put in eight single stalls，ors six stallls and one box stall，which would be ten feet wide．A concrete floor
is the most permanent，but we like to lay plank on top where the horses stand．
The stalls may be separated height of possibly five feet，and then iron
bars could run from there to prevent the horses snapping at each and back of each stall before the concrete
is put in ；this would make themst We would prefer feeding hay in a manger Wather than in an overhead rack．The
manger could be about two feet wide at Jottom and sloped towards the passage
way in front，thus facilitating the feding of hay．The fresh acir couldd be throught tin
htrough windos or intakes in the wall．
halugize Galvanized piping，possitly fifteen inches
or a foot and one－lalif in diameter，extend－
ins from willin a foot of the ol a slide in this vectentilatet，near．By having
the temperiang
$\qquad$
Soft Swelling，
For several months a soft swelling has
Neen coming on my cow＇s hind ley fron
the heol to thout a foot up the leg on the
outside．Tlie leg now looks almoa

## The Most Modern Weapon

for protecting your field and orchard crops from being destroyed（or their market value lessened）is the SPRAMOTOR． It will enable you to combat the potato－beetle and blight quickly and
effectively．In the orchard－to produce $75 \%$ No． 1 fruit and have cleaner， effectively．In－fre orchard－to produck $h$ healthier trees－free from scale and bark－louse．


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We make a complete line of sprayers－one
for every need，from the small hand to the large 250 －gallon gasoline power sprayers．They are all Spramotors，and ange in price from $\$ 0$ to $\$ 400$ ．
Write us your requirements，or at least send
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Made in Canad
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Individuality
The chief characteristic of a sire is firmly
implanted in all our bulls．Some of the best implanted in all our bulls．Some of the best bred by us．We have them out of champions by champions，and champions．Come to us to get a sire if you want to pick from the best in
the country to－day．We have them from two－ ed dollars up．
A．F．\＆G．AULD
FIELD MARSHALL
of 1915，sold June $7,190215=$ the for $\$ 3,775$ ． ．Arkell Station，R．2，Guelph，Ont．
TWO BULLS－－－Born April 1916
 D．C．FLATT \＆SON，LONG－DISTANCE PHONE R．R．2，HAMILTON，ONT，
 of high－class，fashionably bred Scotch Shorthorns in calf to Sittyton Sultan＇s Dale，a Mina－bred son of A．J．HowDEN，Columbus，Ont．$\quad$ Myrtle，C．P．R．，Brooklin，G．T．R

 age－level，thick．mellow．James McPherson \＆Sons，Dundalk，Ont．
fellowe and bred just right．
 My．Mry．Sation．．t．$\quad$ John Miller，Ashburn，Ontario
 BURNFOOT STOCK FAR ARM U Maros nhem IRVINEDALE SCOTCH SHORTHORNS


## Shorthorns



I MPOR TED SHORTHORND OARVIle，Ont
 SHORTHORNS AND SHROPSHIRES－T．L．Mercer，Markdale，Ont

J．A．\＆H．M．Pettit，Freeman，Ont
SCOTCH SHORTHORNS，YORKSHIRES \＆OXFORD DOWNS




3

## SELDOM SEE

a big knee like this, but your horse ABSOREINE
ABSOm ter er en will clean it off without laying the gone. Concentrated-only a few Irops required at an application. \$2 per


 FOR SALE OR EXCHANGE SHORTHORN BULL
Royal Warrant Imp. $=86056=(113205)$

H. M. VANDERLIP

Blmhurst Stock Farm
Branttord, Ontario
GLENFOYLE SHORTHORNS
 Stewart M. Graham, Lindsay, Ont

 Shorthorn Bulls for asele by Mina Boy calf at Guelph. Also one imp. Clydesdale stallion.
GEO. B. ARMSTRONG, Teeswater, DUAL-PURPOSE SHORTHORNS Plaster Hill Herd- Five young bulls, seven to
fteen months old. A number of cows in our herd
 MARDELLA SHORTHORNS Bulls, cows, heifers. Have size, quality; breedina
luil purbose catle over 40 years.
Hilke


Questions and Answers. Miscellaneous.

Lice on Hogs
hogs. Give a remedy for them lice on out infectant for hog pens.
Ans.-Any of the advertised sheep dips
are effective. Coal oil is also a sure remedy, but there is danger of it slightly bisthing the skin. Lard can be mixed
with linseed ond applied with a rag. Some use ordinary machine oil, while others steep tobacco and apply the liquid
to the hogs. Clean the walls and apply a to the hogs. Clean the walls and apply a
coat of whitewash to which has been added a little carbolic, acid. Coal-tar disinfectants advertised in these columns may be applied as they prove effective in destroying vermin.

## Ventilation-Wintering Bees

 it advisable to feed this mixed with other chaff or cut straw?2. How many openings, and of what size, are required to ventilate a stable 70 to put on three ventilators Wh? 1 expect should they be?
is 3 . When wintering bees indoors, what is the lowest temperature they can be
kept at? Ans.-1. Many feed the clover-seed chaff by itself, but we would prefer mixing it w 2. It is customary to figure out the
size of ventilators so as to allow a certain amount of air for each animal in the stables. There are two systems of ventilation, known as the Rutherford and the
King system. The total cross section of the area of the intake should allow at least 15 square inches per head of cattle or horses, that is, there should be about one square foot of intake for each ten head. The outlet shouth
of the intake. The intake openings should be so distributed as to permit of the air entering from as many sides as possible,
and no opening should be less than four inches wide and ten inches long. The fresh air may enter through openings a direct draft on the stock, board or tin should be placed over the openings in such a way as to shoot the fresh air upwards
In exceptionally cold weather the intake of fresh air may be closed by covering the opening with a bag. The outlets across, and should be built of two-ply umber with an air space in order to
make them air-tight and to lessen the danger of the air condensing in them. They should be on the same principle as a chimney. If the warm vapor commences to condense their action ceases more
less. Some recommend that the outlet commence at the ceiling, but the coldest air is at the floor, and also the cattle
breathe the impurities directly downward, and, as carbon-dioxide is heavier than air, it tends to remain near the floor. Consequently, if the outlet commences at the
floor there is greater likelihood of these impurities being removed. However, an in order to allow the escape of warm air should the stable become overheated. The size of the intake and outlet depends
more on the amount of stock kept in the stable than on the size of the stable From the figures previously given the size
of intake and outlet for the stable mentioned, can be figured out according to
the number of horses or cattle in the stable. About 48 degrees is considered to
3 . be the best temperature for wintering bees indoors. The temperature should be reduced to about 42 degrees ,

Bee-Keepers' Short Course. After the annual convention of the OnDecember, the next event of interest to bee-keepers is the Short Course in Beekeeping at the Ontario Agricutural col lege, Guc at a winter course has necessitated adding another week to it, and tho on the 27th. A very attractive program has been arranged and is, at the time of People wishing a copy should write Morley Pettit, Provincial Apiarist, O. A.


Robert Miller Pays the Freight-I have now ready for sale, some extra choote young bulle of
 I have eseral cows that have made wonderful record, otherrare in the making, will spare a feen

 SHORTHORN BULLS-SHORTHORN FEMALES
A HERD THAT YOU WILL LIKE

You will like our females; you will like the breeding and you. will like the sires that have been ueed on
these in the past year Right Sort (Imp.), Bandsman (Imp.), Newton Friar (Imp.), Lytton Selection. Escana Champion-ail these bulls have been used in the past year. We can show you some young bulls by these sires that are show calves. Come and see them or let us send you particular:. We cam
also spare some females bred to them; hilfers, four and six-year-old cows, as well as cowe with calvee

WM. GHENT \& SONS, FREEMAN P.O., ONT. Farm 300 yds. from Burlington Jct., G.T.R. < G GLENGOW SHORTHORNS AND COTSWOLDS Pure Sotch in breeding, we have an exceptionally choice lot of bulls for this season'e
trade, ranging in age from 8 to 15 monthe, big mellow fellowe and bred in the purple. Pure Scoth in breeging, we have an exceptionally coice clot of bubs
trade ranging in are from 8 to 15 months, big mellow fellowe and bred in the puarple.
Also ram and ewe lambof first quality.

 John Elder \& Sons, Hensall, Ontario bulls and registered

MEADOW LAWN SHORTHORNS
We are offering a splendid lot of young bulls from 10 to to months ofa, of the lowsen
Creekside Farm Shorthorns $\begin{gathered}\text { We have for sale at present, a number of young } \\ \text { things by our former herd sire, Clan Alpine, }\end{gathered}$
 Geo. Ferguson, Elora Sta. G.P.R., G.T.R., Salem, Ontario WILLOWBANK STOCK FARM SHORTHORN HERD Established 1855. This large and old established herd has at the head the two great bulls: Imported
Roan Chief $=60865=$, a butterfly, and the prizewinning bull, Browndale $=80112=$ a Mina. An extra good lot of young stock to offer of either sex. Sples ide condition. Good families of both miliking
SAMES DOUGLAS
Btrain and beef.
 We are offering this fall the choicest lot of young herd headers we ever bred, several are of serviceable GEO. GIER \& SON in breedng WALDEMAR, RM
Grand Valley Sta.


Cotton-Seed Meal
Oil-Cake Meal Calf Meal
Gluten Meal
Brewers' Dried Grains $\underset{\text { Chorts Meal }}{\underset{\text { Bran }}{\text { Feeding Tankage }}}$ Wite for prices today


Crampsey \& Kelly

## CREAM

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We want more individual shippers, and more men to gather cream
Write for our proposition. SILVERWOODS LIMITED

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CREAM WANTED
Ship your cream to uad
We pay all exprese chargee.
We pay all exrenee
We remily weekly.
Ontario Creameries, Limited
H. Fraleigh, Forest

LINSEED MEAL FLAX SEED COTTON SEED MEAL Write for Prices.

## Holstein Bulls

fit for service, and calves representing
high producing strains. F. R. Breckon, Merton, Ont.




Glencairn Ayrshires Herd established 40



The Annual Meeting of the Experimental Union. Arrangements have been completed for Ontario Agricultural and Experimental Union at the Ontario Agricultural College, Guelph, on the 9th and 10th of January. Owing to the peculiar weather conditions of the past year, the results of the co-operative experiments conducted throughout Ontario on between three and four thousand farms will be of peculiar interest and value. Since the last neeeting, co-operative experiments have been conducted throughout Ontario with varie
ties of farm crops; ties of farm crops; quantities of seed per
acre; mixed grains for grain production and for fodder; farm-yard manures and
commercial fertilizers with winter wheat potatoes, mangels and rape; the eradication of weeds; the reforesting of waste
places; bee-keening in Ontario etc. placess, bee-keening in Ontario, etc.
Not only will the results of the cooperative experiments be presented, but
several agricultural subjects of importane will be discussed at the annual meeting, some of which are as follows: " What On-
tario Should do in Regard to Potato Protario Should do in Regard to Potato Pro-
duction," "Potato Growers' Co-operadive Associations," "The Farmers' Apple
Orchard" "The Home Veren Orchard," "The Home Vegetable Gar--
den," "Best Sources of Seed for 1917, "The Production in Ontario of Food-
 Vation of the Soil," "Management of Soil
Fertility," "ta Henry G. Belli, Chicago; Dr. G. C. Cree man; Andrew Elliott; Hon. Nelson
Monteith; Prof. Jas. Murray: Prof. H H Dean; F. C. Hart; Prof. G. E. Day; R. S. Duncan, and A. H. McLennan.
All sessions of the Uni held on Tuesday and Wednesday, Januar terested in agriculture, and everyone in welcome to take part in the meeting
Cheap railway rates have been arranged on the certificate plan. For fuller into C. A. Zavitz, Ontario Agricultural Col,

Questions and Answers. Miscellaneous

## Horse Book.

Let me know, through your valuable paper, where I could get a horse book tel. ing me all about stallions and mares. Ans.-The question is rather a mbiguous. If it's a book giving the history of the breeds, Plumb's "Types and Breeds of Farm Animals," would prove interest ing. For diseases of horses "Farmers
Veterinarian," by Burkett, would be Valuable. Other books are "Productive
Horse Husbandry" Morse, "usbandry," by Gay, and "Horse
Book," by Johnstone These "Ho secured through this office

Crossing Breeds-Books on Shorthorns.

1. Would a dual-purpose Shorthorn Holstein herd to increase the beefing quatity of the offspring, or should a beef
bred animal be used? 2. Where can a person get a book on the raising and breeding of Shorthorr
cattle, with explanation of the fanilics? 3. Why is it that we never see any dis-
cussion of the new Dairy Standard Act in cussed, as I consider it very unjust legisla-
Ans.-1. We do not advocate crossing of the breeds. The offspring of a dualpurpose shorthorn bull would show a
tendeny towad beef form, although
posilly not tor possilly yot to the same form, extent as frough a 2 There is a look pullished entitled Sinclair.,"Types and 1 Breeds of Farm Animals," 1, Plumbl, alects of Fives the
history of different brecels of animals Both these books may be secured through
this office. 3. Reference has been made to the
new Dairy Standlards casions in the Dairy Department of our
paper.

## FERTILIZERS FOR 1917

The time is now at hand when you must purchase your requirements of fertilizers, and your concern is to get the best value for your money. One ton of

## SYDNEY BASIC SLAG

costs $\$ 20$, and hundreds of Ontario's leading farmers say it gives better results than other goods costing dollars more. You have been reading lots about BASIC SLAG and we know you have been thinking of trying it. Why not get a ton this season? You are making no experiment. Over 3,000 tons were used in Ontario in 1916, as against 230 tons in 1913, the first year of its introduction. The world's consumption is four million tons,

If you don't know our local agent, drop us a line, and we will put you into communication with him, or if we are not represented in your territory, perhaps you could distribute a car of 20 tons among your neighbors.

The Cross Fertilizer Co., Limited Sydney, Nova Scotia

## Yearling Heifers For Sale

 bull is sold. We also have a 17 -monthe' bull by King Pontiac Artis Canada, and out of a $25-1 \mathrm{lb}$. sister
of the great May Echor Another, same age, by Dutchland Colantha Sir Mona, and from the noted
25-1b. show cow, Cherry Vale Winner. Come and see these, you will like them Gordon H. Manhard, Supt. $\qquad$ W. L. Shaw, Newmarket, Ont $\qquad$


HOLSTEIN BULLS READY FOR SERVICE
Two are by King Korndyke De Kol, a son of the reat Pontiac Korndyke. One is from a 25 -lb. 3-year-
old, and the other from Oueen of Oxirrd, dam of Queen Butter Baroness. We have others younger, by
King Walkr Pide


## DUMFRIES FARM HOLSTEINS

Think this over-we have uto hearo of Holsteins, 50 cows milking, 25 heifers due to calve in the fall, and
60 heifers
from calves up to 2 years, as wwll as a dozen yearling bulls, and anything you may select is
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Breeding and individuality the very best.
Hospital for Insane, Hamilton, Ont
Holstein bulls only, for sale. One fit for service from a $R$. of $P$. dam, testing 4.08 per cent. butter-fat
also four ranging from three to nine months, all from our Korndyke bull. Apply to Superintendent.
Orchard Leigh Holsteins- Special offering, three heifer calves 6 to 11 monthe rom rows with records of 29.20 Ibs ., 27.96 lls , and sired by Ki.79 lbs. butter in 7 Ormsby. Several fine bulle
unior two-year-old. Write, or better, come and see them. from a 18.69 lb .
(Electric car stops at the gate.) JAS. G. CURRIE \& SON, Ingersoll, Ont.
THREE HOLSTEIN BULL GALVES
welve months, old and sweepstakes winner. Ottawa Driry by Lynwood Duke, a son of Daisy Poscb N. J. BAll price a few females, freshening early. Everything offered has official back others younger ( Write
PIONEER FARM HOLSTEIN HERD
If long-distance record makers, the kind that milk heavy and test around 4 per cent. the whole year. arm. Young bulls for sale from dims of the same breeding Ras these and hired were bred at Pionear whose hrree nearest dams average 30 Ibs. butter in 7 davs and 108 liss., mill sin one day.
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fifteen hundred pounds, price two hundred dollars, on car, Toronto. pising individual, weighs over

January 4, 1917


Choice Offering in Ayrshires At Special Prieces-Several young bulls of service-
able ages.
All from R.O.P. and are A. Morrison, Mount Elign, Ontarto
Jnat



 onto. Milleded 38 lliss diay, 6 per cent. milk, first
calf. Ira Nichols, Burgespille, Ont. R.R. No. 2

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

Killing Ticks in Winter. What is the best way to remove ticks
from sheep in cold weather? What is the from sheep in cold weather? What is the
reason for a horse's mane coming out,
and is there a resty? and Ans-Owing teay?
it is impossible to to work any powder into
the body the body which will be effective in de
stroying the ticks stroying the ticks. By exercising care,
any of the proprietary sheep ding tised in these columns may be efffectively used. It is not advisable to dip the sheep
in cold weather, but some shepherds have in cold weather, but some shepherds have
found that by taking a small quantity o Yound that by taking a small quantity of
the dip, not more than a pint the dip, not more than a pint, and opening
the wool along the centre of the back and pouring on the small quantity of material that the ticks are destroyed without any
danger to the sheep. danger to the sheep. The hair may come out from causes, and it is just possible that the horse has a slight attack of mange, although no particular symptoms are given. If it hap-
pened to be the disease mentioned pened to be the disease mentioned, wash
the affected parts thoroughly, using car the aftected parts thoroughy, using car
bolic soop and a bush, and apply some of
the dind the inisinectants advertised. It is neces
sary to continue treatment for several days and the stable should be thoroughly disin-
fected. There is a possibility thy fected. hero is a possibinty that the
hair may be coming out, due to some other skin trouble, and the first thing to do would be to administer something that would purify the blood

Implement Shed
Could you give me a plan and specificashed 20 by $36 \times 10$ feet? Material to be used is 2 by 4 -inch scantling on a low
foundation. Ans.-Each winter we publish plans of
barns and stables of a certain size, but we tarns and stan es os a certain size, but we
have found it impossible to give plans and specifications for barrns, stables or imple-
ment sheds of different dimensions, as no two persons desire exactly the same style and size of building. Your local contrac-
tor will, no doubt, be pleased to furnish you with a plan of an implement shed of
the dimensions given, and would also furnish the specifications. We might say,
however, that the style which is commont, hosed has the studding or scantling set at 2 -foot centres, spiked to a sill at the bot2 by 4 , or 2 by 6 , and the plate of the same material placed on top. The rafters are set at the same centre, and the rooft Sixty
depend on the pitch of the for
scantling would be required for sudding that is, allowing for a double scantling at the corner; the same namber wil be neces for sill and plate would depend on the thickness. Between 1,200 and 1,300 feet or lumber wilt enclose the structure, with the exception of the roof.

The Pig's Lament.

## O Pig of aldermanic size

As would I were as plump and big Thy shape enchants, thy beauties charm; Thou art a credit to the far
"Master" - the pis looked up and sighed-
"I wish in youth I'd drooped and died; For had I then from here been taken

O pig! 0 pig! why this lament? Were I as free from care, as sound
As thou art; were my limbs as rounc As thou art; were my limbs as round
As thine, O pampered pig of ease,
'Itease. "O master, 'tis the flesh you praise That makes me sad. Id mend my ways Between to-day and Michaelmas. But why did'st gel so fat, O pig, II fatness disagrees with thee,
O stupid pis, pray answer me, And surely at, anhat hollow groan? "Ah, master!" came the doleful cry That rent the air and shook the sty, Because I always was a pig! And for poor pigs, O master, master! Fat spells, near Christmas-time, disasster!


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yoGlenhurst Ayrshires $\begin{gathered}\text { For } 50 \text { yeary } \text { thave been breeding the great Floo } \\ \text { tribe of Ayrbhires, dozene of them have been }\end{gathered}$
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YoUNG Brampton Jerseys BULLs
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ing some choice sows, bred; a few sows six mionths old and a number of pigs two months old.
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Yorkshires \& Shorthorns bulls, six and eleven months.
B. ARMSTRONG \& SON,

Questions and Answers.
Miscellaneous.

Tonic For Horse.

1. One of my horses has a bad cough She has always been well taken care of, and,outside of the cough, appears as well
as the rest of the horses. Of late I have fed hay, and about two quarts of oats morning teacupful of ground flax in the and oat straw. The night feed consists of 2 quarts of boiled barley, one quart of oats, and one oat sheaf. The last week
or ten days she has eaten very little hay or oat straw, and seems to have trouble to eat her grain. She looks well and is right up on the bit. What do you consider is the matter with her?
2. What is a
3. What is a good tonic for a horse?
P. M. Ans.-1. From the symptoms given we are inclined to think that the horse's
mouth is sore. Have a veterinarian examine the mouth. There may be a possibility that the teeth need dressing. 2. Give a teaspoonful of the follow-
ing, three times daily, viz., equal parts of sulphate of iron, gentian, ginger and nux vomica. Feed well and give daily

Colt Goes Lame.
I have a colt rising four years old, which
went lame in one of his front legs about went lame in one of his front legs about
two months ago without any apparent cause. I could find no soreness in any par of the leg, shoulder or foot, but
thought he might have wrenched his shoulder rising in the stall. I rubbed his
shoulder well f shoulder well for a few days with turpentine, and he got all right in about a week.
Two months later the same thing hap Two months later the same thing hap-
pened again with the other front leg. I rubbed it same as I did the other and he is all right again. I could find no sore spot
anywhere and no swelling. He had been anywhere and no swellig. He had been
driving on a 20 -mile mail route every
second day. second day. This is the only kind of
work he ever did. Could you explain Ans.-There is a possibility W. J. B. Ans.-There is a possibility that the
colt sprained some of the muscles of the leg
or shoulder. This is quite when driving on the road. As the lame-
ness is only ness is only of short duration, it can be
attributed to some local cause, as a sprain or wrench. It is doubtful wether the
lameness would leave so quickly if it were
due to rheur due to rheumatism. Treatment for this fatter is to keep the horse dry and comacid three times daily. Bathe of salicylic parts three or four times daily with ected water, and after bathing rub well with a
liniment made of four ounces of alcohol one ounce oil of turpent ine, four drams of
camphor, and water to make Hernia-Roup.

1. I have a spring colt which has been
ruptured since it was a week old. I spoke to the veterinarian about it, and he ad-
vised me to let it go until the cold weather and he would treat it for me by putting
on a clamp. I have been told that this is on a clamp. I have been told that this is
very hard on the colt, and that a better
method would be method would be to put a belt around the
colt and fasten a pad to it that would rest on the rupture. Two or three weeks of
this treatment would effect a cure. Do or would it be advisable to allow the
or
veterinarianto 2. Give treatment for roup in hens. arrange it with straps or strings passing
forward and attached to from colt's neck, so as to prevent the truss
whipping out of place. Wour veterinarian not effect a cure have 2. If the eyes and nose are attacked,
they should le carefully washed at least twice a day with an antiseptic solution
such as two per cent. kecoction of chamomile fowers. This
kills the organismis. In the early stages o
the disease treatment the use of one or two per cent. of perman plunged into the solution for head i olerate it. The solution is distributed disinfecting action. When solid and has a occur, they should be opened so that the
skin may bleed freely and the cheesy
matter removed. The prepared roup
cures, as advertised, also proverfeet



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