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## The Parmer's Advocate Home Madazine

## EDITORIAL.

"The Farmer's Advocate" wishes all its readers a joyous Christmas and a year of plenty in 1917.

Prevention of waste is essential in high places as well as on the farm.

Party politics, pull, graft, inefficiency-these grow more loathsome daily.

Those who will not farm need grumble little at the high prices of farm produce.

Consumers sometimes forget that hens and cows eat before they lay eggs and let down milk.
It will take a long pull and a strong pull to win this war and none of the kind of "pull" which the politicians exert.

If all the people at home were possessed of the same spirit as is manifested by the boys who return from the front, the war would not last long

Rest up during these long winter evenings in preparation to do two men's work next summer. When rest ing read a little to help do the work more easily.

The people of the British Empire will stand behind the leaders ready to prosecute the war more vigorously Canada is, comparatively speaking, still poorly organized.

Subscribe to your farm paper at once. No one can give any assurance as to the price remaining as low as it is. The early bird may save fifty cents or a dollar

A subscriber told us the other day that this year's Christmas Number was better than last year's. That is just what we try to do each year-beat all former records.

The people of Canada agreed with John Bright, Canada's Live Stock Commissioner, when he asserted at the Guelph Winter Fair that to let oleomargarine into Canada at this time would be "suicidal."

The city woman who would remove the tariff on foodstuffs alone, doesn't even know that there is a tariff on farm implements and machinery, and that said tariff has any effect on the cost of production.

It is difficult to be "merry" at this time, but sadness should not weigh down those who have lost loved ones in the path of duty. The world honors the man who sees his duty and faces fearful odds to do his bit

No one but the reporters missed the lectures at the Winter Fair very much, and to them it was a great relie not to be obliged to 'isten to the same old story from which they were expected to turn out something new and startling.

There are still a few of those irresponsibles roaming around who would send every man and boy, fit or other wise, from the farms to the war. One of them appeared before a Women's Institute gathering a short time ago, and the wonder is that some hard-worked farmer's wife in the audience did not call some of her bluff. Some of these ladies who rave about what someone else was able to grow in the backyard and what some farm women should do on the land, would look well on the business end of a five-tined fork at the rear of a long line of dairy cows. Fortunately, most city women have more sense than to belittle the efforts of farm women and farmers.

## The Man of the Hour

Lloyd-George, the man described as having the swiftest mind in politics-the man who stops not to think, but acts, has risen to the premiership of the British Isles when action is the prime necessity. He has ac cepted the biggest task of his brilliant career, and the nation hopes with confidence that he will do the job. It augurs well that Asquith, whom Lloyd-George suc ceeds, has asked his party to support the new ministry It is also worthy of comment that Bonar Law, a man who was big enough to turn down the premiership in favor of Lloyd-George, is to be one of his right-hand men Asquith and Law are men of tested mettle, but the biggest of all seems to be the man chosen for the task in hand.
Lloyd-George has had a rapid rise to fame and position. He was born of Welsh parents in Manchester in 1863. His father died while the boy was young and the family moved to Wales, where the present premier struggled through many difficulties. It is said that, as a small boy, he divided an egg with his brother on Sundays, the only meat allowance for the week. However, he managed to get education enough to teach school, and with the aid of a shoemaker uncle, who was also a local preacher, he studied law, and at 21 he was a solicitor It is said that his first case was on the side of the village people in fighting a tyrannic old parson who refused the dying wish of a Dissenter to be buried beside his child in the church graveyard. Lloyd-George, it is alleged, headed the band which dug up the body and placed it beside the child. Litigation followed, but Lloyd-George finally won out in the High Court. He became so popular with the people that they elected him to parliament in 1890 at the age of 27 , and he has represented the same constituency ever since. From poor boy to premier, from a penny village school in Wales to first citizen of the British Empire is a long, hard road, but the fighting Welshman has gone through it all and knows from experience many things which those whose positions have been attained with comparative ease could not know or appreciate. It is this perhaps that makes him the friend of the masses-he knows their needs-it is this that calls forth the love and admiration of the British people.

The Hon. David Lloyd-George has a personality which means much in politics. He is witty rather than discreet. He is a man of action with no time for leisurely loafing. He accepts every challenge, and thoroughly enjoys a fight. He was for a time rather unpopular because he objected to the prosecution of the South African war, but he saved the Asquith Ministry in 1909 by his budget which attacked the land monopoly. He came into special prominence in the troublous political times, beginning with 1906. In 1908 he was made Chancellor of the Exchequer. Asquith stood by him in the fight against the land monopoly, and the struggle ended in defeat for the House of Lords. Gardiner says Lloyd-George's speeches have the quality of vision and swift intuition rather than of the slow processes of thought. He has great insight and believes in bold strokes. He is looked upon by some as pragmatic, but he is essentially a man of the people for the people. He is spoken of as the voice of democracy, and democracy to him is loyal.

Small of stature, but a giant from the chin up, he is now in the most important position within the reach of a British subject and at a time when Britain needs great statesmen. His opponents and his admirers see in him "the most formidable figure that has appeared in British politics since Gladstone." He has made himself what he is, through the mill which grinds continuously-school teacher, solicitor, M. P., Chancellor of the Exchequer, Minister of Munitions, Secretary for War, Premier. He has organized Britain's factories; he has been the friend of humanity; his task now is for humanity against the threatening Hun. Will he measure up? The people
have faith. The little Welshman may be the fulfilment of Tolstoi's prophecy, that a man of the people would come out of the great north-west and put a final end to war.

## The Milk-Producers' Movement.

Milk producers in close proximity to several of our larger towns and cities are banding themselves into organizations this winter. We are pleased to see this movement, and feel that it augurs well for this branch of Canada's great dairy industry. City dwellers, however have fears that organization means dearer milk, and have fears that organization means dearer milk, an these the the orgation in in theirest well a milk listibutor well as pod are banded together in nearly every city, and to stife guard themselves producers, in many cases, were force to join hands.

Now, what should be done? Obviously organization should mean better milk and more of it. Producers meetings should be addressed by producers, and the whole should tend to increase the milk' production per cow to improve the qualityof the output, and to place it in the hands of distributors or consumers in the best possible condition for consumption. Producers are not banding together to demand exorbitant prices. Milk at present prices is being produced at a loss on many farms, and few are making even fair profits, because feed and labor are almost out of reach. Meetings of producers' organiza tions should help toward more successful dairying, and discussions at these meetings should always be with a view to increasing the output of first-class milk from a stated number of cows. Producers are deserving of the good will of the consumer this winter, for, even though milk is high, it is cheap in comparison with the cost of cattle feed and with the cost of some other human necessities, and the producers have not sought to unduly raise the price. Organization should first mean a choice product, and then a price corresponding to the quality.

## Get Together.

Some rather amusing incidents occur in connection with discussions on the High Cost of Living and other economic problems. Consumers' leagues and organiza. tions, conscientious in their endeavors, sometimes are also ridiculous. For instance, not long ago a meeting of such nature in Toronto passed a resolution asking the government to remove the duty on foodstuffs, and said overing about the duty on farm implements and ma othing about he for in mahinery, which is bis costuction and, therefore, in the cost of living. One can scarcely conceive how even a consumer could argue in favor of duty-free foodstuffs while this tariff remained on the very things essential to produce foodstuffs in abundance n this country. As we look at the various questions with which both consumers and producers are concerned, we are more and more convinced that what is good for one class is, in the long run, good for both, provided both classes are fair in their judgments and see profit to themselves in whatever brings prosperity to the country as a whole. There are too many twenty-per-cent. profits taken between the producer and the consumer, and to overcome the difficulty consumers must organize and so must producềrs. Properly accomplished this would mean more money to the producer, and produce at a lower cost o the consumer. Farmers should organize; consumers should organize; and the two organizations should get together for the good of both classes.

It is a big man who, when beaten, turns round and supports his successor. Asquith did it, and Bonar Law is deserving of almost as much credit for the way in which he turned down the premiership to serve under Lloyd-George.

The Farmer's Advocate and home magazine.
the leading agricultural journal in the

Published weekly by
the william weld company (Limited).

## JOHN wELD, Manager

Agents for "The Farmer's Advocate and Home Journal,"


#### Abstract

THE FARMER'S ADVOCCATE AND HOME MAGAZINE     ADVEancie    Leter which will be at our risk. When made otherwise THe will mith be resposible    change of ADDRESS. - Subscribers when ordering a ch. O addrestress should give the old as well as the new     Addres.... THE THE WARMER'S ADVOCATE, or


## The Newspaper Nuisance.

The fair-going public must be almost exasperated at being "button-holed" by the subscription representatives of papers which cannot live on their merits. When it requires the persuasive powers rf a little army of glib-
tongued gentry together with their "strong-arm" tongued gentry together with their "strong-arm"
methods and worthless pens, pencils, razors, books methods and worthless pens, pencils, razors, books, and separate him from a premiums to waylay the victim one dollar down for a paper to come to his home fifty two times per year, what can the subscriber expect to get in that paper? If it had anything of value about it surely it could be sold on its merits as all papers should be. When a man gives you a premium (none of which will stand close inspection) it is more than likely that the paper he sends you is in the same class as the premium, The Winter Fair at Guelph was again graced with the presence of subscription men plying their trade in the same old way. It is about time Fair Management established a rule prohibiting canvassing for papers on ing beeping the representatives of poprs such canvass. ing by keeping the representatives of papers in properly allotted space, and by prohibiting premiums
vasser, who is any good himself and who has a valuable paper to offer, will work where such methods are prac-
ticed, and no self-respecting fair-goer cares to be collared the minute he enters the fair grounds or fair buildings and led aside to have something, which he doesn't want, foisted upon him. It is a safe bet every time that the paper which offers premiums and uses such methods to get new subscribers isn't worth the price, and in selecting will be assured if only those which are sold on thein merits are given a place. The paper which has a stated price and gets it, gives many times the money's worth in its pages. And furthermore, the Canadian Postal all publications which adopt the premium and "strong. arm" method of securing subscribers. Every paper
should be forced to operate on a straight business basis.

## The Live Stock Gamut and Prices

ve been
ain and paid for pure-bred sires and dams, both in Britain and America. To many, these ten, fifteen and twenty-five-thousand-dollar prices appear to be extrinsic rather than intrinsic values. In some cases, perhaps, they are while in other instances the $\$ 25,000$ sire may pay for himself. He will not do it at the head of a grade herd getting steers and heifers for the feed lot or shambles, but mated with a choice bunch of breeding females he might produce bulls that, finding their way into other herds, will produce sires, which in turn will get good steers or farmers' bulls, the influence of which will tend o justify a high price for the parent stock several genera oo justify a in primer all breeding is a bullock, or a female from which to get feeding steers. A cow of the beef breeds may be worth $\$ 10,000$, but if she fails to breed she is not worth more than ten cents a pound at the most. Building lots in certain subdivisions have changed hands many times and at each turn-over someone has usually made money until the ultimate owner finds that the city is not coming that far for another half century and his land is worth forty dollars an acre, instead of forty dollars a foot frontage. So long as this shortage of meat and milk continues there will be high prices paid for sires and dams, but we should analyze the situation and remember that build and milk are the foundation stones upon which to $\$ 100$ an acre for farming purposes. Even at reduced market prices for products of the packing house and dairy, the value of good breeding stock is not very much ecreased, for then the farmer needs, more than ever the good-doing steer and the economical, milk-producing cow, which are a combination of type and hereditary proclivities

At the sales held connection with the recent Exposition in Chicago, breeding stock sold at very handsome prices. One young Hereford bull went up to To be worth this amount of money an animal must be the kind that when mated with good cows he will get young bulls which will win in the show-ring and a few of which will sell aroung $\$ 3,000$ and $\$ 4,000$ each. The herds sires thus sold will go to head commercial breeding for $\$ 150$ to $\$ 500$ apiece. These young bulls, in turn, will sire steers and heifers for slaughter, and this is where the actual value of good blood or of good strains is determined. Let the feeding business lose its attraction for a time, or the production of milk prove an unprofitable enterprise, there will be a poor demand for bulls of all grades, which will dampen the ardor of the commercial breeder. As a result he will go to the professional breeder with a smaller cheque for a new herd header, and the man who has paid a great big price for a away down the line somewhere to influence his business. This is the gamut in the live-stock world, and those in the pure-bred fraternities often forget the ultimate purpose of all breeding operations and how much they depend on the general prosperity of those who have taken only the first degree.

At the International, a son of Whitehall Sultan was the senior champion Shorthorn bull, while the grand champion was by Sultan Supreme, by Double Dale by Avondale, by Whitehall Sultan. It was remarkable how much of the winning stock in the Shorthorn classes were direct descendants of Whitehall Sultan. The by Avondale, by Whitehall Sultan by Matchless Dale, pion fat bullock of the Exposition had Whitehall Sultan blood in his veins, mixed with championship Hereford blood on his sire's side. Such bulls as Whitchall Sultan, or Avondale his son, have been worth more to the Shorttwo weeks a grandson, and the second-prize winner a son, of Avondale. These two entries have changed hands within the last year for a sum approaching $\$ 14,000$.
Some farmers are using bulls that would not even fair to good steer is easily worth ten dollars more than a poor steers and good ones would probably be $\$ 100$ to breeder's the sire that hets the poor that will produce good bulls, and to as much as $\$ 500$ or $\$ 1,000$. Then we come to the professional breeder's high-priced bull, that can win a
championship and sire herd headers worth all the way
from $\$ 1,000$ to $\$ 5,000$, and what is he worth? These are only arbitrary prices used to illustrate the point we have is justified it is easy to see where the high-priced sire other worse than useless, If easily worth $\$ 10,000$ and anthe scrub grade bull and use one that would eliminate steers and heifers, the professional breeder would good even more than he has paid for the best. In would pay even more than he has paid for the best. In the auction ring at Chicago when a young bull was being bid up in jue thousands of dollars, Pedro T. Pages, the Shorthorn judge from Argentina, said: "That is only the price of each leg." They have even a higher conception of values in the Argentine than we have in America. There are always boom times and periods of depression in almost any business, but few have lost any great and of money by purchasing a good sire to mate with a correspondingly good herd.

## Nature's Diary.

в. кlugh, m.

In the management of the wood-lot, the aim should be to secure a full stand of trees of high quality. For by the densityatity of timber is very largely determined timber must be, to a considerable propertion of quality, free of limbs, which are the cause of knots; it muight, tall; and it must not decrease rapidly in diameter from the butt to the last log. In a dense stand of timber there is considerable competition among the individual trees or light, with the result that growth in height is increased, and such trees grow both taller and straighter trees are thus crowded, the sunlight does not reach the lower branches which soon die and become brittle, when hey are broken off by the wind and snow. By this process trunks are formed which are free of limbs, and hence are of high quality. It is therefore evident, that crown, or top, of each individual may be in contact with those of its nearest neighbors. When the proper density of stand is obtained, not only is more timber produced per acre but, as we have seen, the logs are of price of logs of first quality is from one and since the to twice as much as that of logs of poor quality. Some idea of the number of trees to the acre which should be present when the stand is as thick as is desirable can be obtained from the following figures which apply to
maple, beech, basswood, yellow birch, white pine and red pine:-When the trees vary from thite pine and in diameter- 1,000 . When they vary from six to eighteen inches in diameter-250. When they vary from ten to twenty-four inches in diameter-125. desirable question as to what species of trees are the most desirable depends upon several factors-the part of the the soil, the market value of the timber and the rate of growth. Some species whose timber commands a high price are very slow in growth, while others of very rapid growth do not produce valuable timber, and it is better practice in the long run to grow species whose ramber is of fair value and which make rapid growth growth is very slow. At the same time the fact must not be lost sight of that some of the slower growing species, whose wood is of particular value for farm purposes, should be taken care of in the wood-lot.
cur in the wood-lots of eastern Canadal value, which is the fastest-growing, taking only from two to three years to grow an inch in diameter. Next in rapidity of growth come the White Pine, Red Pine, Black Walnut, White Ash, Red Oak and Black Oak, which take from four to seven years to gain an inch in diameter. Hickory
White Oak, Burr Oak, Basswood, and Paper Birch take from six to nine years to grow an inch; Red Spruce from eight to ten years; Sugar Maple, Yellow Birch, Beech, White Elm, Hemlock, and Balsam take from nine to eighteen years to add an inch in diameter, and Cedar
takes from eighteen to twenty-five years. From this takes from eighteen to twenty-five years. From this
data it is plain that when the production of lumber data it is plain that when the production of lumber
alone is considered the White Pine is the most desirable species, with the Red Pine, White Ash, Black Walnut (in southern Ontario), White Oak and Sugar Maple as
second choices. Where, however, it is a supply of fuel second choices. Where, however, it is a supply of fuel
that is aimed at, the hardwoods are the most desirable, as their fuel value is so much higher than that of the
conifers. Highest 83 per cent., next White Oak with 74 per cent., Burr Red with 74 per cent., Sugar Maple with 69 per cent.,
Red Oak with 66 per cent., Yellow Birch with 65 percent.,

 2 Now that we have some general idea as to the most
desirable species of trees to have in the mer desirable species of trees to have in the wood-lot we can
proceed to consider the best methods of management proceed to consider the best methods of management
to apply to the lot. The method adopted depends consists of trees of of the wood-lot, as to whether it dominate the stand, or of a stand of even-aged second
growth. In the first case the old totally exclude the younger growth or may exist as a few scattered individuals throughout the stand. Such
trees are very likely to be deteriorating rapidly in quality, and should be cut out as quickly as is consistent with th

## Organ

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ndividual perative playing the Second
that any group of in munity and
leaving of sufficient of these trees to act as seed-rrees. It is, of course, essential to see that the trees left asseed-
trees are of the species with which it is desired to restock the wood-lot. All dead and diseased trees should be removed at once, and all the old trees should be cut as soon as a good natural reproduction is started in the openings. This is usually best done in three cuttings,
each taking about a third of the old trees. The first each taking about a third of the old trees. she first
cutting is designed to open up the crown cover somewhat so that the leaves on the forest floor may decompose more rapidly, and more light may reach the crowns of the remaining old trees and encourage the production
of seed. When the forest floor is in good condition, that is, when the leaves have decomposed sufficiently, the second cutting should be made in the winter following
anood seed year. Neither of these two cuttings should a good seed year. Neither of these two cuttings should herbs will develop. The third cutting should be made after the seedlings are well established.

To be Continued.

## Organized Play and Recreation

by alex. mclaren.
Lest someone thinks that such a subject during war time is out of place, let us say, that we believe that there
never was a time in the world's history when the subject of play was more timely, or required greater emphasis than to-day. In pioneer times our forefathers had to fight forest, Indian and wild beast and were provided with a means of satisfying the play instinct through
fishing, hunting, etc. Those days also called into being fisting, hunting, etc. Those days also called into being
husking bees, barn raisings, sugaring-off, and many other forms of social gatherings. To-day, owing to the adoption of commercial methods, the introduction of farm machinery, the disappearance of post offices and country stores, the introduction of telephones, rural
mail delivery and other modern improvements, the old marms of social get-togethers have largely disappeared and no other forms have yet appeared to take their place. Here and there, however, there are indications that the organization of the play life of a community is to be the thing which will fill the place of these older
institutions. Briefly then-Why, when, and where institutions. Briefly then -
should a rural community play?
First-Why? The need is not primarily physical, program of play in a certain community in Ontario, would not have proved necessary to hale before the magistrate four young men for "tarring and feathering" a newly-married couple "for fun", as they expressed
it in court. It was simply an example of energy misitircted, owing to lack of opportunity for directing it aright. If it was for no other purpose than to provide
a healthy outlet for funmaking energy, a program of a healthy outlet for funmaking energy, a program of
organized play would be worth while. Besides that, however, play serves many more purposes. Among other things the playing of team games teaches obediterest in the game is lost.
As one examines closely rural life in Ontario, one
cannot help noticing the almost locked up in her young almost unlimited possibilities lie many unsolved problems, many tastes waiting to be needed is initiative and leadershipobvious things. If we desire to develop these essential
ond qualities for successful living, we are neglecting our most powerful ally in not organizing the play life of our communities. Our present schoor system and education
al miethods are too much standardized and hide bound to produce the best results. They refuse to recond to that every boy or girl, young man or young woman is a separate personality or individual, and try to mould
all alike. Play on the other hand allows individuality to develop and thus it is supplementary and comple mentary to all other forms of education in the commun

Over and above all other reasons for play, however is the power of team games, continuously and consistently played, to develop the team spirit which is
another name for community or co-operative spirit. you consider for a minute the number of enterprise which depend entirely for their success on co-operative spirit you will certainly acknowledge the importance enterprises which depend on this teat to mention some Good Roads, Consolidation of Schools, Church Union, Co-operation in Buying, Farmers' Clubs, Co-operative Marketing Associations and every other form of com
munity effort. We are convinced that we will never have the deep, broad, loyal, lasting co-operative spirit organized lay is worked out Team games provide the training ground for that loyalty to the team or group which is so severely tested when private dealers try to break up individual clubs inducements to break with the cooperative circle. When those temptations come, farmers will break if they have had no previous training in playing the game. So you see the play idea is a matter
of dollars and cents as well as one of enriching the whole
liff Second-How shall we pay? that any Junior Farmers' Improvement Association or
group of interested young men should meet together and ecide upon organizing a Recreation Committee Notily all the young men and young women in the com
munity and call them together for a preliminary meeting Ask some of the local leaders such as ministers, teachers etc. to help along. At this meeting decide what game
or games are to be played-elect a small committee to
me responsible for arranging schedule, securing equip
ment, grounds, etc. This committee will decide how many teams to play; a good way would be to play one
school section against another or pick out to ptain ond School section against another, or pick out captains and
allow them to pick up teams. Always keep in mind, however, that the idea is not to pick out one good team to go off and play against some other community, but to make up teams so that everybody in the community
will get the chance will get the chance to play. After teams are made up,
make out a schedule of games to beplayed make out a schedule of games to be played once a week,
completing the season in such a way that every team play each other team twice at least. Appoint umpires umpire, and then boost for attendance at the first game of the series. Parallel to this league, you might plan
for the older teams represent and women of the districts, which the
 should be lined up in teams to play volleyball districts ball, captain ball or indoor base ball (played outside). In other words, the object on the night the league games are played should not be to have one big central at traction, around which a great group gathers to applaud,
but the planning of ground equipent way that the greatest number may have the such tunity to play. When you have groups of older men older women, young men and women made up, have the captain of each group added to your central comprogram. A group of ladies specially fited trols thit be secured to plan games for the younger children, which may be carried on in one corner while the older ones are playing their games. Such games as mentioned above may be found in "Games for Prayground, Home, Schoo your play program will come bacrechin way for the community; father, mother and children playing altogether. Avoid the desire to make the games tacu:ar-always keep in mind that the object is for fun
and benefit
this Third-When are we going to find the time for all this play? The question of time, of course, is always scarce, and yet we must face the problem sounerly find some solution for it if we are going to deven as high a type of citizenship as we will need. If we consider the question carefully we will find that we take off enough time throughout the weel an hour here and an hour long evening for play together would make a fairly printed notice that a certain evening each week will he observed as Recreation evening and ask the co-oper tion of every farmer in the community in planning to keep that evening open for the purpose of getting tocome, fathers, mothers central place. mvite. all to When they come, see that they are put into some game where they will enjoy themselves. This latter fact wil entail some planning and sacrifice on the part of the central committee.
Fourth and last-Where shall we play? After
considering all kinds of considering all kinds of places we have finally decided
that the local school grounds is the best place for such play, if they can be secured at all. If they can't you play, if they can be secured at all. If they can't, you
will have to be content to play wherever you can until
public opinion is formed which will consent to the use The games to be played, of course, will depend on local taste and desire. We recommend, however, that the games or volleyball, indoor baseball (played outside), and captain ball be investigated. We believe that they
furnish the bect games to enlist the interest of the whole community, to enable the largest number to play on the smallest playing space, that they require the least equipment and provide the most
teaṃ combination playing values

## Quick Action Saves Money.

ber Last week we sent you our Annual Christmas Number, printed on good, smooth, white paper, handsomely in your hands at much greater cost than previous Christ mas Numbers. and prices much of increased prices of white paper facturers will not quote on extended contracts. We give your 52 issues per year all printed on a finely finished grade of magazine paper, the price of which has
risen by over 50 per cent risen by over 50 per cent., which means a great deal on
the hundreds of tons used in this paper in are still prepared to give you the paper at the old price of $\$ 1.50$ per year, if paid in advance, but we cannot give assurance that this price will remain so. A strenuous endeavor will be made to keep the subscription rate as it is, but the paper manufacturers may demand a still
higher price, and an increase might be unavoidable. Canadian farmers have had a "lean" year, and we are desirous of giving them the paper at the old rate. We are going to do it as long as possible. The price remains the same at present, but to make sure that you get ad vantage of it, renew at once. The price will not go up
to those whose renewals aré in hand at once. Get your neighbor to subscribe. We plan to give more interesting reading matter in 1917 than in any past year. Regardless of expense the quaiity of the Advocate will steadily Advocate" " is hopessente tha sas nat perarmer "Advocate is one essential that has not gone up in pricic its quality at the best, permitting no "shoddy" to take the place of the good old "homespun" articles. If the price of white paper is further advanced such increase may have to re are bearing a heavily increased expenditure, bu
regardless of cost the quality of the Advocate will not re lowered. Subscribe now at the old rates. We assure you of the best that is or has been in agricultural
journalism, throughout 1917 journalism, throughout 1917.

## THE HORSE.

## The Pulse of the Horse.

It is necessary to know the esigns of health before we can recognize those of disease. To appraise the pulse, we must learn its action in healthy animals. Let
us, then, note a few of the things which indicate health us, then, note a few of the things which indicate health
in the horse, and which we should rightly expect horse men to observe. A horse should always have a good


Marathon Imp. [12610] (15309).
Foaled 1907. Sire. Marcellus. Dam, Lady Carruchan, by Prince of Caruchan. First prize azed stallion and grand champion
at Guelph Winter Fair, 1916. Imported. owned and exhibited by T. H. Hasara, Markham, Ont.
appetite, and leave nothing of his proper measure of
food in the manger. His excretions should be regular and normal in appearance. The attendant should know what is normal dung and urine, and immediately note any departure from this standard. How many times does a horse unload the rectum in the twentybladder? The answer is about ten times and four times. Slimy mucus or coated dung-balls on the one hand, or hard, small balls and very shiny, are signs of laxity which may amount to irritation, or to constipation, which may end in colic, stoppage, or other troubles. lifted between finger and thumb, and the coat or hair should lie in the right direction. The opposite of these conditions is known as hidebound and pin-feathered. The body generally, including the ears, should be comfortably warm to the touch, but the feet should be cool. The visible mucous membranes indicate almost as facial expression to the medical man. To look at the conjunctiva, or eye-lining, one should press the thumb on
the lower lid rather hard, and push the upper one with the lower lid rather hard, and push the upper one with
the forefinger. Horses resent this less than opening
the nostrils, unless the delicate salmon tint, or that of a pale red rose in its outer petals, should mark the eye of a healthy horse. The membrane of the nostril may be a little paler if the exercise. Do not rely on the membrane of one eye alone, or one nostril alone. As an example, after a
desert march over sand, a horse was reported ill. The eyelid was turned up and it was intensely inflamed, and a fever drink was prescribed. Next morning the horse was quite well, but that off eye was just as much inflamed as ever. It was a chronic inflammation well. The "lightning diagnosis" groom knew it quite those far off days but hagnemen have learned to in roborate the testimony of the one-eyed witness. glance at both the eyes or a nostril would have corrected the diagnosis., Neither the eyes nor the nostrils alone should be allowed to decide us, because the one or the other may be inflamed from purely local causes. The
horse that has just cleared up from a bad cold may have both membranes flushed, but he is far more likely to valescence from catarred is seldom equal on both conhas been laid up are considering whether a horse that you will not decide by the appearance of to go to work, yoth, but will confirm or refute your of one nostril, or sulting the conjunctival membrane of the eye. One
eye or one nostril may be inflamed from local causes eye or one nostril may be inflamed from local causes. eye or nostril, but the visible membranes will all be in
sympathy. The temperature, taken per rectum, -will be a check upon your other observations
The pulse was the chief means of diagnosis in former the thermometer have neglected the pulse, and thereby lost much of the value of the instrument with which branes suffer straining in certain diseases, such as jaundice. The breath unpleasant when indigestion or de-
cayed teeth are present. The mouth should therefore cayed teeth are present. The mouth s.
be opened when ill-health is suspected.
The pulse may be taken at many parts, and whatever artery is chosen the object of feeling it is to gauge the
force or impulse of the heart's contractions by the waves sent through the vessels. The most easily available
artery in the horse-one running near the surface and offering a standing position of safety to the person or the examiner-is on the ridge of the lower jaw. It is
called the submaxillary artery, and passes round the called the submaxillary artery, and passes round the
bone together with the duct of the partid gland in groove more or less easily felt in a blood horse, but animals. Something like thick string should be felt when pressing the fingers against the artery and the bone, but the string is alive, and imparts the impression
rather of a large and active garden worm, if it is a full, round, healthy pulse. By keeping the fingers a gently compressed one learns to measure the force of the pulse.

## Light Horses, Sheep,

## Light Horses and Ponies.

The judging of the diminutive ponies, the high-
stepping Hackneys, full blooded Thoroughbreds and fine mettled standard-breds, during the evenings, drew large crowds to the ring side. The classes were all well
filled with animals of the first quality. Judging from popular. The performance of representatives of the various light breeds was well worth watching. Thoroughbreds were particularly strong this year. In the
aged-mare class were eleven entries. Ten entries appeared in the aged-stallion class of Standard-breds Judges, Dr. Rutledge, Lambeth, and Dr. Sinclair Standard Breeds.- Exhibitors.-F. J. Steffler; Mildmay; Chas. Finnegan, Stratford; Crow and Murray, ham; Ashley Stock Farm, Foxboro; Chas. Sewers,
Greenock; C. McKeigan, Strathroy; F. E. Hedden, Erin; Patterson Bros., Agincourt.
Awards. - Stallion, aged: 1, Hassard, on Peter
Wilton; 2, Crow and Murray, on Burt Axworthy; 3,
fullness of the vessel, the hardness, softness, forcefulness or feebleness or failure to find the impetus of the the first importance to the number and learns the value later, it may be stated here that a horse at rest and in health should have from 36 to 40 beats per minute. ing the ground, and looking round at the flank, may be suffering only from pinching pains of colic, or from inflammation of the bowels, and the farmer wishes to know which it is and whether to send for a veterinary surgeon or give some recognized colic drench. He takes the temperature and feels the pulse. If it is colic materially-perhaps not in the least; the pulse will be only about forty. If the colicky pain is due to inflammation of the bowels or other organs of the body the temperature will have risen several degrees, and the pulse will be quick and irritable. The pulse takes a great deal of learning, and temperatures need checking
by it and other signs of discomfort or disease.-Farmer by it and other sign
and Stock-Breeder.

## LIVE STOCK.

## Computing the Value of Feeds.

Editor The Farmer's Advocale
I have studied with great interest the table given on page 1883, of November 16th issue and wish to thank you for compiling such useful information for your readers. I must confess, however, that I cannot study the table as intelligently as I should like without further information concerning it. We are enabled by it to obtain a properly balanced ration and this perhaps is its sole purpose, but we should like at the same time of feeds. How can we do this? Can it be estimated by the amount of dry matter coupled with the nutritive
ratio, or how? For instance, if I want to know the ratio, or how? For instance, if I want to know the
relative feeding value of 1 cwt. of carrots as compared with 1 cwt. of potatoes, I see the dry matter s about twice as great in the latter, the protein slightly
higher, the carbohydrates nearly double, but the fat only one half. The nutritive ratio is $1: 10$ for carrots
as compared with $1: 14.5$ for potatoes. Please state which is the more valuable feed per cwt. and why that we may be able to intelligently compare other per pound of the three digestible nutrients respectively? Would you also state what is meant by totals given

Our correspondent has brought up a question that for years. Nevertheless it is an interesting one, and a brief discussion of it at this time may be opportune.
Such information as "Young Farmer". desires was omited from the article appearing in the issue of November whereby one can accurately value feeding stuffs for all kinds of live stock according to any unit, or the constituents of the feeds under consideration.
There are "starch equivalents," " heat units" and
uch, that afford some foundation for comparison, and such, that afford some foundation for comparison, and these are valuable in so far as they furnish the basis
for tabulations and charts, but when we get down to the actual feeding of horses, cattle, sheep and swine on the farm we require a practical knowledge of feeds and their effects on the animal system. We have no desire to belittle the work of scientists and the in-
formation they have given us, for all modern practices in the feed lot and economical feeding are based on the ing standards" etc., should be used as guides only, but in this regard they are of inestimable value. Let us
illustrate. Kellner, one of the highest scientific authorities on feeding, compiled a long table showing the starch equivalents of all the different ingredients of
feeds. Digestible protein, nitrogen-free extract and fibre, as well as fat, were proved by him to individually have a value equivalent to a certain and definite amount
of starch. He translated these different constituents

## Swine and Grain at

Finnegan, on Bryson McKinney; 4, Steffler, on Dan-
sire; 5, McMillan on Alnared. Stallion, foaled on or sire; 5, McMillan on Alnared. Stallion, foaled on or
atter Jan. 1, 1914: 1, Hedden, on The Moose; 2, PatFarm on Jack Rayner and Winkle Boy. Måre, aged: 1
Patterson Bros., on Ideal Princess; 2, and 3, Ashley Stock Farm, on Phillywinkle and Noble Lottie. Mare, foaled on or after Jan. 1, 1914: 1, 2 and 3, Ashley Stock
Farm, on Ella Bleecker, Clara Gay and Winkle Girl, Three, get of sire: 1 and 2, Ashley Stock Farm. Mare two of her progney: 1 and 2, Ashley Stock Farm.
Champion stallion, Hassard, on Peter Wilton. Champion mare, Patterson Bros., on Ideal Princess. Carnegie, Paris; Jos. Telfer, Milton West; R. C. RogerCarnegie, Paris; Jos. Telfer, Milton West; R. C. Roger-
son, Fergus; N. H. Wilson, Rockwood; J. F. Husband,
Eden Mills; G. M. Anderson, Guelph; W. F. Batty, Brooklin. $\quad$ Awards.-Stallion, aged: 1, Crow and Murray, on
Prickwillow Connaught; 2, Tilt, on Spartan; 3, Mason,
 on De Wilton. Stallion, foaled 1915: Carnegie, on
Adbolton Premier. Brood mare: 1 , Tilt, on Miss
Derwent. Yeld mare: 1, Telfer, on Princess Eudora;
in feeds into terms of starch, and by adding the resulte together he derived the starch equivalent of the total Some book farmers in the past have adopted this without limitations, and have considered that by dividing into the price of same per cwt. they could ascertain their relative values. In some cases this chart may hold good, but usually there are so many things to consider, factors both technical and practical, that, after what effect they have on the system of the animal to which they will be fed, and how to combine them into a fairly well-balanced ration for the live stock under consideration. Professor Henry, senior author of "Feeds and Feeding", and one of the best authorities on feeding in America, writes: "With Kellner, we must study given to the subject, there are still many gaps in our knowledge ,of the actual net value of the different feeding stuffs.
The same writer in other paragraphs answers
as satisfactorily as possible the question raised by our correspondent
finite money value have been made to assign a definite money value to one pound of digestible, crude and then compute the value of different feeds on the basis of the amount of these nutrients they contain, the same as is commonly done in arriving at the money value of fertilizer. While such a system of valuation
nay be of some limited value for a short period of time and when applied to a small district where the systems of farming do not vary widely, no such set of vałues has general application to the United States. As has been emphasized before, the value of any given leed to the stockman depends on the nature and compoughage is alfalfa hay, protein-rich concentrates are often worth less to him than those rich in carbohydrates. On the other hand, if the cheapest roughage he can provide is corn or sorghum silage, low in
protein, then concentrates rich in protein will be of higher value to him than those carbonaceous in character. feeds furnish total nutrient he basis of the cost per therm of net energy, per feed unit, or per pound of total digestible nutrients. For the reasons pointed out in preceding articles, the authors believe that the most convenient system for American digestible nutrients. In comparing roughages with concentrates, this system gives roughages somewhat too high a relative value, for one pound of total digestible han one pound of net energy in concentrates. However, in most cases the desire will be, not to compare roughages of several concentrates is the cheapest source of total nutrients, or which of the different available roughages
is the most economical feed. To determine which eeds are the cheapest supplements to balance a ration low in protein, it will be found convenient to compute
the cost of the different feeds per pound of digestible crude protein." After all is said and done the most accurate way to
determine the value of the feed is to find out by actual feeding experiments how many pounds of meal,_or hay, 100 pounds of the feed will replace. By comparing
concentrates with concentrates, or roughages with concentrates with concentrates, or roughages what will bear application to actual farm conditions. The meaning of totals contained in the fifth column of the table published in the issue of November 16, is simply the total digestible nutrients in 100 pounds of the feed, with fat expressed in the terms of carbonyhe total digestible nutrients are listed as 85.7 , this is arrived at in the following manner. Fat must be multiplied by $21 / 4$ to make it equivalent to carbohydrates, as explained in the article accompanying that table. The carbohydrates and its equivalent crude protein, making in all 85.7 pounds of total digestible nutrients in 100 pounds, with the
and fats expressed in the same terms.

## Guelph Winter Fair.

2neman patanill
 Tilt, on Minnie Derwent. Mare, foaled after Jan. Dainty Spartan; 3, Wilson, on Brookfield Kitty; 4, Mason, on Misty Morn. Three, get of sire: 1, Husband;
Thoroughbreds.-Exhibitors.- Jas. Bovaird and Sons, Brampton; F. D. Parsons, Guelph; D. A. Camp-Awards.-Stallion, aged: 1, Bovaird, on Rostur-Awards.-Stalion, aged: 1, Bovaird, on Rostur-
ium; 2, Campbell, on Gay Boy; 3, Parsons, on Yori-
omo. Stallion, foaled on or after Jan. 1914: 1 , omo. Stallion, foaled on or after Jan. 1, 1914; 1,
Clancey, on Master Fox; 2 and 3, Campbell, on Gay Breeze and Ability. Mare, aged: 1 and 3, Clancey, onCarbillon and Miss Morgan; 2, Dyment, on Foxlet; 4 , 1914: 1, Clancey on Latest News; 2 and 3, Campbell, Arthurs; 2 and 3, Campbell. Mare, two of progeny; 1 , Ponies.-Exhibitors.-R. Ballagh, Guelph; S. Duck-

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worth, Brantford; J. and T. Lloyd-Jones, Burford; J. Miller, Jr., Ashburn; Robt. Miller, Stouff ville.
Awards.-Shetland stallion, aged: Ballagh, on Shadeland Royal. Mare, any age: 1 and 2, Ballagh, on
Viera and Highland Spot. Welsh stallion, any age Duckworth, on Longmynd Nobby; 2 and 3, Lloyd-Jones, on Daylight 2nd, and Moonlight. Mare, any age: ${ }^{1}$, Miller, on Forest Wee Renie; 3, Lloyd-Jones on Dolly Thi on Forest wee Renie;
get of sire: 1, Lloyd-Jones; 2 , Ballagh. Mare, two of get of sire: her progeny: 1 , Lloyd-Jones.

## Dairy Bull Calves.

For the second time, classes for dairy bull calves were included in the prize list bit the entries were not so large as last year. Hewever, visitors to the fair had
the opportunity of seeing a number of choice individthe opportunity of seeing a number of choice individ-
uals placed. The young bulls were of the type and uals placed. $q$ quality which make valuable herd headers. The awards were made by A. Kains, Byron, and R. S. Stevenson, Ancaster
Ayrshires.-Six senior and and seven junior calves from several noted herds entered the ring. Humeshaugh Invincible Peter, a winner in his class at Toronto and
London, this year again headed the class. He is a particularly good calf, and if he keeps on developing, it will take something extra good to win over him next year He is of excellent Ayrshire type and possesses size and capacity. Orkney Grand Master is a straight, smooth,
breedy calf of much the same type as the winner breedy calf of much the same type as the winner, but
with barely the substance. Below him were four bulls that are a credit to the breed. Springbank Butter Boy headed the junior class. He is a strong, growthy calf of excellent conformation. In second place was Springbank Bright Lad, a typey call and straight lines
Exhibitors.-
Exhibitors.-A. S. Thurner \& Sons, Ryckman's
Corners; Harmon MacPherson, Copetown; N. Dyment, and Sons, Brantford; H. C. Hamill, Markham; E. D. Hilliker, Burgessville; T. H. Chant,' Burgessville; Wm. Stewart \& Sons, Campbellford.
Awards-- Bull, senior calf: 1, Turner \& Sons, on
Humeshaugh Invincible Peter:' 2 MacPherson Humeshaugh Invincible Peter; 2, MacPherson, on
Orkney Grand Master; 3, Hilliker, on Maria's Briery King; 4, Chant, on Scotch King: 5, Dyment \& Sons King; Annie Lad of Hickory Hill. Bull, junior calf: 1 and ${ }^{4}$, Stewart \& Sons, on Springbank Butter Boy and White Bob 2nd, of Menie: 2 , Turner \& Sons, on SpringLad; 5; Hamill, on McNair of Craigielea.
Holsteins.-At the top of the senior class stood Annette's Prince Abbekerk, a strong, masculine calf with good length of body, a smooth shoulder, and splendid handing qualities. Pontiac Atlas Colanthus is of a little blockier type, but he is a good stamp and was
placed over two others which were a shade roungh and upstanding. There was stronger competition in the younger class, although most of them came from one herd. A good-hearted call, showing character and mas culinity superior to others was placed first, although firther down the line were calves of finer handing qual
ities. Expibitors.-A. E. Hulet, Norwich; Jas Rettie,
Burgesville: W. J. Bailey, Jarvis; E. Snyder, Burgess ville; W. H. D. Steen, Brampton; J. G. Currie, Ingersoll; A. C. Hallman, Breslau.

Awards-Bull, senior calf: 1, Hulet, on Annette's Prince Abbekerk; 2, Rettie, on Pontiac Atlas Colanthus: 3, Snyder, on Pontiac Prancy Netherland i,
Bailey, on Ideal Duke Faforit. Bull, junior calf: 1, 3 and '5, Synder, on Colanthus Hengerveld Paul, Colanthus Posch Abberkerk, Colanthus Mercena Bill Hengerveld Calamity Abbekerk. 4, Hulet, on Count Canary Sylvius.
Jerseys.- This was the first year that Jersey bul
calves were included in the prize list. Several splendid individuals were exhibited from the herds of B. H. Bul and Son, Brampton and Jas. Bagg \& Sons, Edgeley.
Awards.-Bull, senior calf: 1, Bagg \& Sons, on

Edgeley Bright Bearn: 2,3 , and 4 , Bull \& Son, on Bramp
ton lsright Sir Do's Bright Star. Bull, junior calt: 1,2 and 3 , Bull \& Son, on Brampton Beauty Heir, Plaiser Chief and Major John.

## Sheep.

Despite the fact that several of the old time annual exhibitors in the sheep division passed up Guelph this there was still a splendid showing of all breeds. New exhibitors were numerous and both quality and number were quite, if not fully, up to the high standard of th record year, 1914. There were few changes this yea Drummond Cup, a feature of the sheep exhibit forsevera years past and won permanently by Col. McEwen last year, was replaced by splendid Sterling, Silver Cups, to be awarded to the best pen of three pure-bred lamb in each of the long and short-wooled breed limbs the Drummoud trophy, the Cup, in each case must be won three times before becoming the permanent propHampshire lambs lifted the first year, three uniform Hampshire lambs lifted the Cup for the short-wools
for Jno!' Kelly Shakespeare, and E Barbor Oxford pen, reserve. In the long-wools the Cons to R. S. Robson \& Son, Denfield, on an exceptional pen of Lincolns, with A. W. Whitelaw's Leicesters, reserve.
Cotswolds.-Exhibitors: E. Brien \& Sons, Ridge-Cotswolds.-Exhibitors: E. Brien \& Sons, Ridge Thedford; Wm. Boynton, Dollar; Chas. Dobbin, Black

Awaras.-Ewe under 1 year: 1, Brien; 2 and 3 Campbell; 4 and 5, Mark. Three ewes under 1 year 1 and 4, Campbell; 2, Brien; 3, Mark. Wether under

 Campbell; 2, Brien. Judge, C. Shore, Glanworth. Lincolns, -Exhibitors: Jos. Linden, Denfield; R. S. Robson \& Son, Denfield; E. Brien \& Sons, Ridgetown. 4. Awards.- Linden. Three ewer 1 year: $1,2,3$ and 5 , Robson Linden. Wether under 1 year: 1 , Brien; 2,4 and 5 Linden; 3, Robson. Three wethers under 1 year: 1 , 3, Robson. Judge Jas. Douglas, Caledonia. Guelph. Ino Kelly \& Son, Shakespeare; Geo. B. Arm strong, Teeswater. Awards.-Ewe under 1 year: 1,2 and 4, Whitelaw 3, Armstrong; 5 , Kelly. Three ewes under 1 year: 1 and
3, Whitelaw; 2, Kelly. Wether under 1 year: 1,2 and 3 , Whitelaw; 2 , Kelly Wether under 1 year: 1,2 and year: 1 , Kelly; 2 ,' Whitelaw. Ram, under 1 year: and 3, Whitelaw; 2, Kelly; 4, Armstrong. Judge, Jas. Douglas, Caledonia.
Oxfords.-E. Barbour \& Sons, Hillsburg made up the entire exhibit of this breed with the exception of two entries in section for ram under 1 year. These
were made by A. McKinnon, Hillsburg and were placed first and fourth. Judge, W. A. Dryden, Brooklin. Shropshires. - Exhibitors: J. Lloyd-Jones, Bur ford; Ernest Fleming, Tara; W. H. Beattie, Wilton Grove; Jno. Kelsey, Woodville; J. E. Brethour \& Nephews, Burford.

2. Beattie: 3 and 5 , Ker 1 year: 1 and 4, Lloyd-Jones i, Lloyd-Jones; 2, Kelsey. Three ewes under 1 year Wether under 1 year: 1 and 2 , Lloyd-Jones; 3 Fleming; 4, Kelsey. Three wethers under 1 year year: 1 and 4 , Beattie: 2 , Lloyd-Jones; 3 , Kelsey Judge, J. C. Duncan, Lewiston, N. Y. | Southdowns.-Exhibitors: J. Jloyd-Jones, Bur- |
| :--- | ford; Robt. McEwen, London; Hampton Bros., Fergus, Cecil Stobbs, Leamington; J. E. Brethour \& Nephews Burfor

Stobbs; 3 and 5 , Hampton; 4, McEwen. Three ewes under 1 year: 1 , Hampton; 2 , Lloyd-Jones; 3 , Stobbs; 4 ,
McEwen. Wether under 1 year: 1 and 4, Lloyd-Jones; 2 and 3, Hampton Hampton; 2, Lloyd-Jones: 3, McEwen. Ram year: year: 1 and 3 , McEwen; 2, Lloyd-Jones; 4 , Hampton. Judge, J. C. Duncan, Lewiston, N. Y
Dorsets.-Exhibitors: W. E. Wright \& Son, Glanworth; Jas. Robertson \& Sons, Hornby; Cecil Stobbs, Awards.-Ewe under 1 year: 1, 2 and 4, Robertson 2, Stobss: 3 Wright $; 4$ under 1 year: 1 , Robertson; 1 and 3, Robertscn; 2, Stobbs: 4, Wright. Three wethers under 1 year: 1, Rohertson:'2 Wright Ram under 1 year: 1, Robertson; 2 and 3,' Stobbs; 4, Holtby Juge, W. A. Dryden, Brooklin.
Hampshires and Suffolks. - Exhibitors: Telfer Bros, Paris; Jno. Kelly, Shakespeare; Geo. Henderson Awards.-Ewe under 1 year: 1, 2, and 3, Kelly; 4, Wether. Three ewes under 1 year: 1 , Kelly; 2 , Telfer. Three wethers under 1 year: 1 , Kelly. Ram under 1 year: 1 and 3 , Telfer; 2 year: 4 , Kelly. Judge, J. C.

Grades and Crosses.- Exhibitors: (Long and short: G. H. Mark; G. B. Armstrong; Robt. McEwen; J. A. Campbell; J. Lloyd-Jones; E. Barbour \& Sons: J. A. Brethour \& Nephews; Cecil Stobbsit Jno. R. Kelsey: W. E. Wright \& Son. Long-wool awards, - Shearling wether: 1 and 4, Whitelaw; 2, Mark; 3, Linden; 5, Brien. Wether under 1 year: 1 , Whitelaw; 2 , Brien; year: 1 Camphell: ? Whitelaw: 3 Brien; 4 Inder Short-wool a wards.-Shearling wether 1 and 2 Stobbs: and 4, Hampton Bros.: 5, Lloyd-Jones. Wether, under 1 year; 1 and 4, Lloyd-fones; 2, Brethour; 3, Kelsey, 5, Kelly, Three wethers under $\frac{1}{5}$ year; 1 , Judges I D Duncan and Jas Douglas chamion wether: Southdown owned by Cecil Stobbs. Reserve, Cotswold, owned by G. H. Mark.

Fleece Wool.-Exhibitors: C. F. Davies, Hamilton; Henry Arkell \& Son, Guelph; Telfer Bros., Paris; J. Murdock, Palmerston;' C. E. Smith, Scotland; E. Barbour \& Sons, ristarg; W. E. Wrght \& Son, Glanworth; Edward Tolton, Waikerton; W. Heattie, Wilton Teeswater.
Awards.-Domestic, fine medium: 1, Davies; 2 Arkell dic, medium, McEwen; 4, Murdock; 5, Smith Telfer Bros.; 4 Lloyd-Jones; 2 , Arkella Son; 3 and , Whitelaw; 3 and 5 , Armstrong; 4, Lloyd-Jones;
Dressed Carcasses. - Judges: Prof. G. E. Day, Guelph, Ont.; and Geo. Morris, London.
Awards.-Cotswold, wether lamb: 1 Campbell; 2, lamb: 1, Linden; 2, Brien. Leicester, lamb: 1 and 2 Whitelaw. Oxford lamb prizes were all won by Barbour \& Sons. Shropshire, lamb: 1, Beattie; 2, Wright \& Son; 3, Kelsey; 4 , Fleming. Southdown, lamb: 1 Lloyd-Jones; 2 , Smith. Dorset Horn, lamb: 1 , Stobbs 2 and 3 , Wright $\&$ Son. Hampshire or Suffolk, lamb wooled, grade wether lamb: 1, Campell; ; 2, Brien a Son, 3, Whitelaw; 4, Linden. Short-wooled, grade wether lamb: 1, Brethour; 2 and 4 , Wright \& Sons; 3, Stobbs. Wethers, long-wooled, shearling: 1 and 6,
Linden; 2 and 5, Mark: 3 , Campell: 4, Armatrong Linden; 2 and 5 , Mark; 3 , Campbell; 4 , Armstrong
Wether, short-wooled shearling: 1, Robinson \& Sons 2, Wright $\&$ Son; 3 , McEwen; 4 , LloydJones; 5 , Stobbs.


Village Supreme.


California Favorite.

## Swine.

The entries of swine at the Winter Fair this year were equal in numbers with other years, and the quality was considered superior. The classes were all exception-
ally well filled, which made very keen competition. ally well filled, which made very keen competition.
The champion fat barrow was exhibited by J. Lerch, The champion fat barrow was exhibited by J. Lerch,
Preston. The Prince of Wales' prize for the best pair of bacon carcasses went to J. K. Featherston, Streets
ville, and the Swift Trophy to Charles Boynton, Dollar Yorkshires.-Exhibitors: John Duck, Port Credit; J. E. Brethour \& Nephews, Burford; Wm. Murdock,
Palmerston; A. Stevenson, Atwood; Jacob Lerch, Palmerston; A. Stevenson, Atwood; Jacob Lerch
Preston; J. K. Featherston, Streetsville. Judge, D.
Awards.-Boar, under 6 months: 1, Brethour; Lerch; 3, Featherston; 4, Stevenson. Sow, under 15
months: 1 and 2, Duck; 3, Featherston; 4, Stevenson. Sow, 6 months and under $9: 1$, Brethour; 2 and 3
Stevenson; 4 Lerch. Sow, under 6 months: 1,2 and 3 , Stevenson; 4, Lerch. Sow, under 6 months: 1,2 and 3 ,
Brethour; 4, Featherston. Champion sow: Duck. Reserve champion: Brethour. Three pigs, one litter under 6 months: 1, Lerch; 2 and 3, Brethour; 4, Featherston.

Berkshires.-Exhibitors: P. J. McEwen, Wyoming; E. Brien, Ridgetown; W. W. Brownridge, Georgetown;
John S. Cowan, Atwood; Wm. Boynton, Dollar; W. J. John S. Cowan, Atwood; Wm. Boynton, Dollar; W. J.
Gilliland, Forest. Judge, Prof. G. E. Day. Awards.-Boar, under 6 months: 1, Brien; 2 and 4,
Brownridge; 3 , McEwen. Sow, under 15 months: 1 and 3, Brownridge; 2, Cowan; 4, Brien. Sow, 6 months and under $9: 1$, Brownridge; 2 and 3, Cowan; 4 , Boynton. Sow, under 6 months: 1 and 2, Brownridge; 3 , Brien; 4 ,
McEwen. Champion sow, Brownridge. Reserve champion, Brownridge. Three pigs, one litter: 1, , Brownridge;
Brien
3 months: 1, Brownidge; 2 and 4, Brien; 3 , McEwen. Tamworths.-Exhibitors: Charles Boynton, Dollar; D. Douglas \& Son, Mitchell. The former had his only two entries out in the class for boar, under six months, and was awarded third and fourth. Douglas had every cass weltion. His under-15-months sow was champion. Judge, H. German.
Chester Whites.- Exhibitors: Henry Capes \& Sons,
Nyoming; Daniel De Coursey, Mitchell; W.E. Wright, Glanworth. Judge, H. German, St. George. . Awards.- Boar, under
Coursey; 2 and 4 , Wright. Sow, under: 15 months: 1 , 1 and 2, Wright: 3 and 4, De Coursey. Sow, under 6 months: 1 and 2, De Coursey; 3 , Wright; 4, Capes \& Sons. Champion sow, Wright. Reserve champion,
Wright. Three pigs, one liter: 1 , De Coursey; 2 and 3, Wright. Three pigs, one. litter: 1, De Coursey; 2 and
Wright; 4 , Capes $\&$ Sons. Barrow, under 6 months:
1, Capes \& Sons; 2 and 3, De Coursey 4 4 Wright Any Other Pure Breed. - Frhibitors: Culber Malotte, Wheatley; Hastings Bros., Crosshill; G Malotte, Leamington; 'Cecirl Stobbs, Leamington; Byron Robinson, Wheatley, Judge, H. German.
Awards.-Boar, under 6 months:
Awards.- - Boar, under 6 months: 1 and 2, G. Malotte;
3, Hastings. Bros. $; 4, \mathrm{C}$. Malotte. Sow, under 15 months: 1 and 4, Robinson; 2, C. Malotte; 3, Stobbs. Sow, 6
 Hastings Bros.; ${ }^{\text {Has }}$, C. Malote; 3 , Stobbs; 4, Robinson. Champion sow, Robinson. Reserve champion, 6 months: 1 , Hastings Bros.; 2, G. Mat Barrow, under $\underset{\sim}{\text { Robinson. Grand champion barrow of the show, } \mathrm{J} \text {. }}$ Lerch, on Yorkshire barrow under 6 months.
Export Bacon Hogs.-Exhibitors: John S. Cowan, Atwood; J. E. Thomas, Guelph; John Duck, Port Credit;
Geo. Duck, Port Credit; J. E. Brethour \& Nephews, Burford; Herry Wilson, Georgetown; Hastings Bros., Crosshill; Wm. Murdock, Palmerston; A. Stevenson,
Atwood; D.Douglas \& Son, Mitchell; Martin McDowell. Oxford Centre; J. K. Featherston, Streetsville. Judges: Prof. Awards. - E. and a, Brethour; 2 and 12, Duck; 3, Boynton; 4, Featherston; 5, Stevenson; 6, Douglas \&
Son; 7 , Lerch; 8 . Cowan; 10, Wilson; 11, Hastings Bros Bon; , Lerch; 8. Cowan; 10, Mison; 11, Hastings Bros.
Butcher hoss: 1 and 3, P. McEwen; 2, W. W. Brown-
ridge; 4, W. J. Gilliland; 5, Wm. Boynton; 6, Jas. Rettie; 7, C. Malotte.
Dressed C Carcasses. - Judges: Wm. Jones and Dressed Carcasses.
Prof. G. E. Day.
Awards (Bacon).-1 and 5, J. K. Featherston; 2 Chas, Boynton; 3 and 4, J. E. Brethour \& Nephews: 6 A. Stevenson; 11, Jno. S. Cowan; 13, Jacob Lerch. Butcher
hogs.-Awards: 1 and 5, P. J. McEwen; 2, W. J. Gilli-


## Judging Competition.

The Inter-County Judging Competition, conducted
under the auspices of the Ontario Department of Agri culture, created a good deal of interest. A team of three
men from each of twenty-one counties competed for men from each or twenty-one counties competed for first, with a score of 2,357 out of a possible 3,000 first, with a score of 2,357 , out of a possible 3,000 . fourth. These teams were trained by their District Representatives, J. C. Steckley, R. S. Duncan, J. of the winning team were Jas. Hope, Harry Hill a nd
Chas. Boynton. W. Elson, Durham County, secured the highest score in horses; F. Snyder, Waterloo County,
in beef cattle; Jas. Hope, York County, in dairy cattle:
H. Leask, Ontario County, in sheep, and W. Buchanan, Essex County, in swine. of the Agricultural College and farmers's sons throughout the Province who are under twenty-five years of age, is
conducted each year at the Winter Fair, and the followconducted each year at the Winter Fair, and the follow-
ing men were successful in winning prizes this year in ing men were successful in winning prizes this year in L. H. Hamilton, Harry Earle, E. J. Salter. Beef cattle Alex. Fleming, H. Clark, T. E. O' Neil, C. Atkinson, A.
McConkey Dairy catte: F. K. Merkley L. W. Mckillian, A. H. White C. Evans. W. J. Austin. Sheep: E. V awson, A. H. Musgrave, R. Templar, J. S. Steckle, L Elder, N. James, W. F. Gardner. Poultry: G. R. Wilson, F. L. Ferguson. H. W. Neff, R. W. Zavitz, E. . S. Snyder. The Inter-Year Competition, in which five students
from the four years at the College, were eligible, was won by the third year. The second year came next, and the foufth year third.

## Poultry.

The exhibit of poultry this year was bigger and better than ever. There was a noticeable absence of cull birds mane in close touch with the situation claimed that the quality was forty per cent. superior to any previous show The utility breeds were in the majority, although the ancy breeds were well represented by fine specimens Entries of water fowl and turkeys were considerably White Leshorns led in numbers, there being 320 birds 106 of which were cockerels. Barred Plymouth Rocks were second in number with a total of 222 birds, of which 80 were cockerels. There were 200 White Wyandottes, and they were considered to be the best in
quality of the utility fowl. One hundred and thirty-six Rhode of the Reds were shown. 120 Buff Orpingtons and 118 White Rocks. In all the classes, competition was very keen, and it was considered more difficult to win at the Guel ph poultry show than at Boston, New York or Buffalo. The entries of dressed - porty were also large and made an retractive exhitit The weather

Seed Grain at Guelph Winter Fair.
ing Field Crop Co grain, roots and corn from the standing Field Crop Competition was attractively arranged.
There was an exceptionally large entry of oats, which were bright in color and of good quality, considering the season. Potatoes also attracted considerable Thention, as the quality has seldom been excelled. per bag of two bushels of oatts was $\$ 3.50$. The top for tiwo bushels. Wheat aver 450 . Potatoes sold at $\$ 3.25$ per bushel. This seed was all purchased by individual farmers for next year's seeding.
The entries in the seed department were considerably The entries in the seed department were considerably
larger than in previous years and much high-quality larger than in previous years and much high-quality
grain, seeds and roots were exhibited. The following is a list of winners in the open classes:
is Winter wheat, white: 1, G. A. Burns, Paris; 2 , Giover, Collingwood. Winter wheat, red: 1, G. W. Glover; 2, Wm. Roth, Fisherville; 3, J. S. Waugh, Chatham; ${ }^{4,}$ A. W. Van Sickle, Onondaga. Spring
wheat: 1, S. W. Bingham, Hillsburg; 2, T. T. Rettinger, Formosa; ${ }^{3}$ 3, J. W. Burt \& Sons, Hillsburg. Goose
wheat Honeywood; 3, A. R. Wood, Fergus. Banner oats: 1, S. W. Bingham; 2, F. G. Hutton, Welland; 3, J. T. Rettinger; 4, Andrew Schmidt, Mildmay; O. A. C.
No. 72 oats: 1, W. F. Batty, Brooklin; 2, A. Schmidt; 3, A. Morrison, Creemore; 4, J. Lerch, Preston. Any other white oats: 1, R. M. Mortimer; 2, A. Schmidt; 3 ,
Thos. Sellers, Zephyr;
4, A. Morrison. Black oats; 1, A. Schmidt; 2, J. T. Rettinger; 3, J. Lerch. Barley, 3, Geo. R. Barrie, Galt ; 4, A. W. Cohoe, South Woods-
lee. Rye: 1 I. Lerch. 2, E. Klopp, Zrich; 3, R. M.
Mortimer. Buchwheat. Mortimer. Buchwheat: 1, J. Lerch; 2, A. Schmidt; 1. H. L. Goltz, Bardsville; 2, F. Buckland, Wiarton;
3, R. Cameron, Lion's Head. Field peas, small:
Pe Griffin \& Son, Acton; 4, R. Wilkin, Palmerston. Field Geifln \& Son, Acton; 4, R. Nikin, Palmerston. Field
beans, large: 1, J. E. Trothen, Wallacetown, 2,0 O.
Klopp, Zurich; 3, R. M. Mortimer. Field beans, small 1, J. Lerch; 2, Wm. Bilue, Palmerya; 3, P. McKinley
Tecumseh; 4, Klopp. Red clover: Oxdrift: 2, J. Adams, Oxdriftt 3, W. H. Martin, Dryden Oxdrift ; , Wm. Roth, 3, J. A. Flether, Merlin; , J. H
Schwyer, Fisherville. Alfalfa: 1 , F. Shopland. Minita 2, Klopp. Timothy: 1, A. W. Cohoe; 2, A. Schmidt; ; ,
O. Klopp; 4, B. Buckland. Compton's Early corn: 1, F. A.
 Longfellow: 1, L. D. Hankinson, Aylmer, 2, R. J. Iohnston, Chatham; 3, S. L. Pearce, Wallacetown
4, D. S. Maynard, Guelph. Salzer's North Dakota
 D. S. Maynard; 4, A. S. Campbell, Blenbeim. Bailey
1, A.
Ouellette, Walkerville; 2,' W. C. Anderson, Amherstburg; 3, J. A. Fletcher, 4, J. A. Trothen
Impreved Leaming: 1, A. Ouellete; 2, Wm. Blue

 lee; 2, A. Ouellette; 3, Peter McKinley; 4, G. I. Smyth,
Kententel Golden Glow: 1, A. Oueleette; 2, F,
W. Oke, Alvinston; 3, E. B. Palmer \& Son, Norwich;

4, J. Parks, Amherstburg. Sweet corn, table: 1, F,
A. Smith; 2, L. D. Hankinson; 3, A. S. Maynard. W. M. Smith, Scotland. Sweet corn, Maynard; 4,
J. McKee, Norwich; 2, F. A. Smith 3 , winng: is Potatoes, round, white: 1, Wm. Nasmyth Falken; burg; 2, Frank Farrow, Mt. Brydges; 3, H. L. Goltz; 2, Port Elgin Fruit Growers ${ }^{4}$, A S. 1, Wm. Nasmyth any other type: $1, \mathrm{Wm}$ Naismith; $2, \mathrm{M}$. McCatoes, 3, Geo. Ruber, Arkell; 4, F. Buckland. Mangel seed: R. Moore, Norwich; 2, J. A. Ferrguson, Holstein. Beet R. seed: 1, J. A. Ferguson; 2, R. R. Moore. Onion seed:
1, J. Ainslie, Leamington; 2, J. A. Campbell, Le ton; 3, E. Klopp. Parsnip seed: R. R. Mo Leaming.
 McGoll; ${ }^{4}$, G. Foster, Honeywood. Sheaf, six-row
barley: 1, A. Schmidt; 2, H. L. Goltz; 3, B. R. Cohoee barley: 1, A. Schmidt; 2, H. L. Goltz; 3, B. R. Cohoe;
4, G. R. Barrie.

Standing Field Crop Competition
Oats.-1, Wm. Hutcheson, Rockwood R. R. 1 , Scotch; 4, Homer Hurlbut, Kemble R. R. Imported White; 5, R. E. Mortimer, Honeywood, Marguerite: 6, Wm. Winer \& Son, Guelph; O. A. C. 72 ; , I, J. S.
Armstrong, Formosa R. R. 1 , Golden Flake; 8, Andrew Armstrong, Formosa R. R. 1, Golden Flake; 8, Anddew
Schmidt, Mildmay R. R. 1, A Aundance; 9, W. H. Atkinson, Port Elgin R. R.' 3 , O. O. A. C. No. 72 ; 10 , 10 , Jacob Allenson, Neustadt, O. A. C. No. 72. Barley.-1, A. W. Vansickle, Onondaga, O. A.C.
No. 21 ; 2, Alex. B. McArthur, Creemore R. R. $2,0$. A. No. 21 i, 3, Alex. Morrison Creemore R. R. 2 , O.A.C. No. 21; 4, Harold H. Howell, Cainsville, O. A. C.
No. ${ }^{21}$. Wheat.-1, Chas, No Hilliker Michigan Amber; 2, Wm. Winer \& Sons, Dawson's Golden, Chaff; 3, Edwin Butler, Norwich R. R. 4, Dawson's Golden Chaff; 4, E. S. Shantz, Hespeler
R. R. 3, Michigan Amber; 5, D. R. Clark, Pusinch R. R. 1, Michigan Amber. Lion's Head a Ronald Peas.- 1, Wm. War
Cameron, Lion's Head.
, Lion's Head; 2, Ronald Potatoes.-1, S. E. Griffin \& Sons, Acton R. R. 3 , Nox-all; ${ }^{2,}$ H. L. Goltz, Davies Warrior; $3, \mathrm{Wm}$. Naismith, Falkenburg, Davies Warriori; 4, Dugald
Campelli, Mt. Brydges, Dooley; 5, Richard Sabine Mt. Brydges, R. R. 2, Dooley.
Corn (Flint).-1, A. S. Maynard, Chatham, R. R.3, North Dakota; 2, R. J. Johnston, Chatham, Salzers North Dakota; 3 , Fred W. Tole, Blenheim, North
Dakota; 4 , Wm. A. Kelly, Rodney R. R. 2 , 5. Edwin E. Murphy, Silver Hill, Compton's Early Corn (Dent (1). 1 , B. R. Cohoe, South Woodsle,
Wisconsin No. 7 , 2 , W. D. Elliott, Couber Wor 257 Weaming: No. © ${ }^{2}$, Alvinston R. R. 2 , Gold box 257, 4, E. A. Deneau, Malden, Wisconsin No 7;5, J. D.

## Live Stock Doings in Britain in 1916.

 Edtror, "The Farmer's Advocate": Britain have enjoyed, in 1916, an unprecedented veate and success. Sale prices have ruled high; many new herds have been established, by business men chiefly and not "gentlemen amateurs" at playing the game ofrearing first-rate stock. These "captains of industr" now coming into the live-stock trade have pot their eyes skinned to the boom that is in the offing. They are laying the foundations for the great call that is bound to come from the world over for pedigreed stock. The days of the dabber, and of the dilitante and of dalliance in the primrose paths of "don't-care-how-much-I-loose" forever. English breeders are out for the dough. They just seem to have awakened to the fact that they háve possessed a golden inheritance without knowing it. Now they are going to get a move on, but their Breed ocieties still lag behind -lag from superfluous fat.
Allfover the Kingdom new herds of Aberdeen-Angus Allover the Kingdom new herds of Aberdeen-Angus
attle have been started. During the year 199 head cattle have been started. During the year 199 head
have been exported, and South Africa took just hall have been exported, and South Arfica took just hall
that total. Canada had a few-very few-but odd
specimens. were sent specimens were sent to Japan, SWerden, Norway and
Tasmania. As I have already recorded, sale prices Tasmania. As I have already recorded, sale prices were higher this year than they have been since the
early "eighties", when the first American boom came across the Atlantic. Holstein-Friesian cattle have made big money this
year in England. Exactly 840 head have been sold under the hammer and the sandglass, and made a total price was 6525 , paid by E. W. Langford, who is introducing the breed into Herefordshire, for Mrs. Townshend's imported bull, Mietjes Victor. This herd sale
averaged $£ 11614 \mathrm{~s}$. 6 d . for 36 head. Still another hiog figure was $£ 588$ given by Trevor Williams, at Ford's sale at Duffield, for another imported bull, while at the same event Messrs. D. \& F. Pool gave $£ 505$ for an im-
ported cow. The Ford average for 29 head was $£ 136$ -
${ }^{13 \mathrm{~s} .}$ The The Ayrshire Cattle Society's milk record scheme has made rapid strides these last few months, Larger
teats are being put on to the modern Ayrshire. The teats are being put on to the modern Ayrshire.
cult of the small teat is passing hence. Devon cattle yield quite a lot of milk. J. W. Chick's twenty in-calf cows made an average of 643 , but ten
of the top sawyers averaged 6548 s . They averaged of the top sawyers averaged $£ 548 \mathrm{~s}$. They averaged
6,058 lbs. of milk apiece as the result of 286 days (aver$6,058 \mathrm{lbs}$ of milk apiece as the result of 286 days (aver
age) in milk and the butter-fat was returned at 4.21 . This year 520 Hereford cattle have been exported
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Lord Sha
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Company,
demands have fallen off, but Uruguay, Brazil and
Rhodesia have taken more than ever. Sale prices have been high, both at private herd dispersals and those
held by the Herd Book Society. At a sale in March, held head were sold at an average of $£ 424 \mathrm{~s}$ a apiece, and
329 hell
169 hulls averaged $£ 429 \mathrm{~s}$. 6 d . Canada and the United States have bought a few Red Polls this year. Bloemfontein has been a "bull" customer, a Major Quinn buying males from 15,000 and $10,000 \mathrm{lb}$. cows.
During 1916, in Great Britain (and Ireland) 79
official sales of Shorthorns were held and 5,838 head sold at an average of $£ 601 \mathrm{~s}$. 2 d . apiece. That iepresents best the British industry of Shorthorn raising has ever benown. Let us go into some further details. At
kerth show sale, 480 head were disposed of for $£ 41,363$ ${ }_{3 \mathrm{~s} .6 \mathrm{dd}}$; at W. Duthie's sale 38 head for $£ 16,837 \mathrm{lbs}$. Od at the spring All 167 head for $£ 142214 \mathrm{~s}$. 0 d . Th. the rapidly progressing autumn Birmingham sale, 613 617 gs. Od . was made on 198 head. In the Royal Dublin sale 221 head made $£ 11,250$ 4s. 6d.; at Belfast $£ 11,830-$
15s. Od. came from 320 head. At Birmingham 15s. $£ 17,1426 \mathrm{~s}$. 0 d . was made on 275 head, and at
sple
Penrith $£ 11.663$. 8 s . d . for 256 head Penrith 611,6038 s. Od. for 250 head.
Only 62 Clydesdales have been exported up to the Ireland has never been better. The Hackney trade
with the United States has been moderate, and with Mreand has United
with the
Canada almost nil.
It has been a wonderful year for sheep raising in
Britain. Fat Down sheep have averaged 13 pence per pound; Longwools 12d.; Cheviots 14d.; Blackfaced shee generally made 55 . , cross breeds 13 d . Store sheep hav generally made 50 shillings to 60 shillings and ewes
reached their 100 shillings. Lambs have made over 10 shillings more in 1916 than they did in 1915 . Speak
ing of the three Kingdoms' figutes, sheep stocks are up ing of the three Kingdoms' figures, sheep stocks are up
on the year, Scotland alone reducing her breed of shee on the year, Scotland alone reducing her breed of sheep
by 28,881 head, which is not wise in such times as these She must have been killing too many lambs-so it
looks anyway. The Romney Marsh, the Lincoln, the Southdown, the Suffolk, and the Leicesters are the gentine has taken a lot of high-priced Learcolns; Ausmade good money for all the rest trading among thav selves. The chief event in the Southown world was
the sale of W. M. Cazalet's flock of 306 head for $£ 618$. 3d. apiece, or a total of $£ 2,11511 \mathrm{~s} 6 \mathrm{~d}$.
It is to be regretted that at the end of 1916 there are
fewer flocks of registered Hampshire Downs in England than at the beginning of the year. True, some new
flocks have been established on Wiltshire Downs, but they do not strike a compensating balance. Some of R.W. Hobbs \& Sons' rams making t75 apiece lambs in Oxford sale averaged $£ 228$ s. each.
Wensleydale sheep have enjoyed much prosperity in 1916. They are a real mutton-producing breed and for the last ten years the crosses of this breed have won
the championship at the Penrith Christmas Show. the championship at the Penrith Christmas Show.
Export trade has been revived this year, chiefly to South Africa. It crosses well on Merino ewes and makes high-quality fat lambs and wool which commands much money. At a breeder's sale, five shearling rams exhibitalso Greensit's, realized $£ 2455$.; not bad for a breed that is not as well known as it deserves to be.
that Unitited States sheep of that name, over there are not worth two-penny-worth of cold gin, as the saying
goes here. Indeed the Secretary of the English Leicester goes here. Indeed the Secretary of the English Leicester
Sheep Society frankly tells me the so-called Leicesters in Canada are a discredit to the no-called Leicesters
in
Confusion becomes worse confounded when the attempt is made
in Canada and the United States to include Leicesters and Border Leicesters under one breed. I must confess that this statement has proved a bit of a shock to me,
for I thought Canadian sheepmen knew and realized the big difference between the two breeds. Lord Middleon, who is President of the English Leicester Sheep
Society, is sore about this confusion and says if Canadians persist in crossing sheep for experimental reasons,
without using English Leicesters, they will come to the same untimely end as the man who thought he could pell words without the use of vowels.
To Argentina, in 1916, 1,709 Lincoln
a eeen exported, and other buyers have been South Africa, Brazil, Australia, and Ireland. At a sale in
Lincoln, Tom Casswell sold a single ram for 260 guineas, and averaged $£ 734 \mathrm{~s}$. 9 d . for his lot. F. Ward, at Quarrington, sold 100 rams for 63116 s . 6 d . apiece. His
best price was 270 guineas. To Canada and the United
States 296 Shropshire sheep have The British export trade in pigs has been nil in 1916. cestershire Old Sports, a spotted variety, and for Cumberland pigs, a large white variety. A new Sheep
Flock Book Association in now to be tried-the Herdwick, a Cumberland Hill sheep of real mutton qualities. Vanderbilt and his associations with English Coaching, erect a granite memorial column on Holmwood Common, near Dorking, close to the mainroad from
London to Brighton, the route traversed by Vanderbilt's coaches.
Lord
Shaughnessy, better known as Sir Thomas Shaughnessy, president of the Canadian Pacific Railway
Company, has taken his seat in the British House Company, has taken his seat in the British House of
Albion

Dates of Live Stock Meetings. meetings, as recently sent out by John W. Brant Monat, National Live Stock Records, Ottawa
 Canadian Thsociation, Directors Mexhbred Horse Society, $2.00 \mathrm{p} . \mathrm{m}$.
ing; 3.00 p. mirectors Meanad Meet Annual Meeting; 4.00 p. Moroughbeed Horse Society Directors Meeting; 8.00 p. m., Canadian Swine Breeders
Association, Annual Meeting; 8.00 p. m., Dominion Shorthorn, Breeders'
8.00 Tuesday.-Feb. 6 Directors Meeting; 10.00 a. m., Ontario Swine Breeders Annual Meeting; $11.00 \mathrm{a} . \mathrm{m}$. , Dominion Shorthors ${ }^{\text {Breeders' }}$ ' Association, Annual Meeting; 2.00 p.m Ontario Berkshire Club; 3.00 p. m., Ontario YorkSociety Directors Meeting in tandard Bred Hors Sheep Breeders' Association, Directors Meeting; 4.00 p. m., Canadian Jersey Cattle Club, Directors Meeting 8.00 p . m., Canadian Standard Bred Horse Society,
Annual Meeting; 8.00 p . m., Canadian Sheep Breeders Annual Meeting; $8.00 \mathrm{p} . \mathrm{m}$., Canadian Sheep Breeders'
Association, Annual Meeting, Wednesday.-Feb.
Breeders' Association, Directors Meet, Ontario Shee Ontario Sheep Breeders' Association, Annual Meeting 10.00 a a. m., Canadian Jersey Cattle Club, Annual Meeting; 2.00 p . m., Canadian Hackney Horse Society Horse Society, Annual Meating, 00 . Hackney dale Horse Association of Canada Directors, Clydes Thursday-Feb. 8, 9.30 a. m., Canadian Shire Horse Association, Directors Meeting; $10.00 \mathrm{a} . \mathrm{m}$,,
Canadian Shire Horse Association, Annual Meeting Conadian Shire Horse Association, Annual Meeting,
10.30 a. m., Clydesdale Horse Association of Canada Annual Meeting; 2.00 p . m., Canadian Hereford Association, Directors Meeting; 3.00 p. m., Canadian Hereford Association, Annual Meeting; ${ }^{7} .30 \mathrm{p}$ p. m., Ontario Horse Breeders, Directors Meeting; $8.00 \mathrm{p} . \mathrm{m}$,
Ontario Horse Breeders, Annual Meeting Friday.-Feb Breeders, Annual Meeting. Breeders' Association Directors Meetingin 10 Cattle Dominion Cattle Breeders' Association, Annual Meeting, 10.00 a.m., Canadian Kennel Club,Directors Meeting; 2.00 p. m., Canadian Kennel Club, Annual Meeting; $2.00 \mathrm{p} . \mathrm{m}$.,
Canadian Trotting Association, Directors Meeting Canadian Irotting Association, Directors Meeting;
3.00 p. m., Canadian Trotting Association, Annual
Meeting.

## THE FARM.

## Prevents Manure Wastage.

## EdITOR THE FARMERS ADVOCATE ! We are told in experimental reports and farm papers

 That stable told in expererimental reports and farm papers manure is made, and it might not be out of place to discuss the subject thoroughly through the columns of this paper. We are told to produce more of everything and "keep the home fires burning," and those Who are on farms are receiving high prices at present or the average farmer to invest much money in. Every man you talk to about manure is always ready with his reply. "Yes, I wish I had lots of it," and thisvery man may' be wasting his batnyard products. For instance, a man said to me a few weeks ago that he had been hauling out manure all day and that it was as heavy as gravel. This man has a large yard
and the manure is dumped out of a barrow, not even piled up. At one end of the yard is a pond and the piled up. At one end of the yard is a pond and the
drop from three sides of his buildings falls into this large yard. Out of this puddle at the corner of his yard a creek runs in the spring. The reason his manure was so heavy was that it was water-soaked all summer
and the creek that runs out of his yard empties into another creek 100 yards from the barn. This man is talking of making a purchase of some commercial fertilizers to see whether he can grow more corn and
potatoes, and $I$ am doubfful if one could convince him potatoes, and I am doubtful if one could convince him
that he is losing 50 or 75 per cent. of his winter's make of manure. ${ }_{\text {I }}$ read recently that only one out of 300 farmers care for their stable manure properly, I was talking
to a man a few days ago who came to visit me. When he drove into the yard he met me on a load of dry in the gutters in the cow stable. "Well siri," he said, in the gutters in the cow stable. "Well sir," he said, a vast difference on all my crops that I manure." "C all summer in a pile in a shed with a cement floor 1 was like the other fellow referred to as to the weight of a load. I would as soon hitch on to a load of gravel. 32 loads were left over on account of the wet spring but it has been a good experiment to me. The muck, no doubt, made weight, but instead of rain I had all the liquid absorbed to keep this pile from heating. I always kept the manure from the horse stable for
the bottom of the pile. Horse manure is light the bottom of the pile. Horse manure is light and the leaching of the cow stable manure when it was piled on top. I believe in drawing direct to the field, manure can be preserved just the same as anything
else and if kept air tight will keep as long as you like else and if kept air tight will keep as long as you like. I have read that sheep manure was superior to either
cow or horse manure, so that each summer after this
shed is cleaned out $I$ put in a few loads of muck from shed is cleaned out I put in a few loads of muck from
the pond. The hens scratch over this for of months and it gets as dry as sand. This makes good absorbent in the sheep barn. I had the best potataes in the neighborhood this season. I put the
sheep manure and the muck on my potato land. sheep manure and the muck on my potato land.
Lanark Co., Ont.
Tim Bunker.

## Why Not?

Editor "The Farmer's Advocate
I am surprised that some of the "powers that be" Cost of Living," that, nampely known as the freedom of labor to seek the avenue of greatest reward. What right have so many farmers and farmer's sons to leave the farms and bring about dearest market? It is intolerable. They should be prohibited from doing so. Why does not the State enact that more men shall stay on the farms, and sell their produce for a reasonable price? The thing is as easy as wink; just pass the necessary legislation and put
it in force. It will be easy also to increase the output from our agricultural colleges, of farm instructors, who shall teach the farmers how to grow maximum crops
with a minimum expenditure of labor and capital. A with a minimum expenditure of labor and capital. A
Royal Commission can be appointed to investigate the question of how little the farmer needs to live on without reducing his efficiency, and on the basis of their findings a schedule of reasonable prices can be fixed, so that farmers may be prevented from getting unduly rich,
Technical instruction can be given to all farmers Technical instruction can be given to all farmers'
families, so as to render them efficient workers; let them thus be fitted for that place which workers; let them wisdom, designs and decrees for them Technical instruction, supervision by agricultural experts, together with the keeping of a sufficient number on the farms will Should any the problem of the High Cost of Living. the required legislation, the mintenance of the roterne soldiers as a permanent force will "preserve law and

## Brant Co., Ont,

$\qquad$ W. C. Good.

## A Free Fair With Plenty of Interest.

 dror The Farmer's advocate. The mission of an agricultural fair is agriculturaleducation, and if the fair fails to accomplish the work edt is supposed to, the directors should turn in and re-
it adjust their prize list and features of attraction.
We have just gotten over We have just gotten over our annual apple show, were rushed night and day, hence we had a smaller were rushed night and day, hence we had a smaller
number of entries than usual, but the crowd in at endance was almost up to other years.
meeting, and some of the getting ready for our annual meeting, and some of the things we have to do and the way we shall go at them may help other associations
solve their problems. Two new directors must be appointed, two who have not served before or not for a long time been on the
board, if we can get them. New blood puts vim behind that is necessary, and the former directors who shall still remain keep the over-zealous from running to We have been doing our work a little differently here compared with the Eastern Provinces. The government gives a very substantial money girt to the fairs demands that the financial ceport and in return Department of Agriculture, and has a say in the fixing of the dates of the fairs.
The judges make notes on the fair management fair receive a printed report or criticism of all the fairs, their own included. In this is a frank statement pamphlet and is doing good.
Along with this they send out another pamphlet on fairs, exhibiting, arranging exhibits, and model prize-ist. This is a great help to the directors in re-prize-list is another of our tasks this winter-
Here is where it is made apparent that the judges should have a standard. As far as possible the same judge goes year after year, thus educating the people
up to what he wants, so that exhibiting is and-miss affair, but what the judges want is a known certainty, the size of apples in each class is known the stamp of roadster that will appeal to the judges is known; and the quality, condition and appearance that each exhibit should have is thus no longer a gamble Here, we have no admission at the gate. Our fair is
intended to be an education and the community govern ment, and enthusiasts support it to the extent that it can be left open to all to come and see. We have no side shows, and no horse races, but we do have the
crowds and the contests. If, you could have crowds and the contests. If you could have seen
the crowd that watched the young girl pack the crowd that watched the young girl pack apples
at a dollar a minute for 25 minutes to win professional standing, you would have realized the value of a contes that has speed and yet is based on true commercial requirements. This girl, Miss Reta Harrison, along with others, packed for 25 minutes from a bunch of
apples run in from an orchard, apples run in from an orchard, just as they would
be into a packing house. They put the apples the usual commercial pack and the best packed three boxes won \$25, with a second and third prize in pro portion. To those who have packed apples, and mosi people here have done so or understand packing, this
is a very exciting and interesting contest. To stand

## I

THE FARMER'S ADVOCATE.
by and see the packers swing back and forth as
regularly as the pendulum of a clock, flip the apple regularly as the pendulum of a clock, flip the apple
into its paper, twist it and place it in the correct box,
for size and color, discard the cull, face the box into its paper, twist discard the cull, face the box
for size and color, diso
with proper bulge and alignment is not the work for with proper bulge and alignment is not the work for
the careless workers, and holds the crowd's attention the careless workers, and
till the last apple is placed
Each year the government holds a packing school
and at our fair the pupils of the last school held, packed boxes of apples at home and displayed them at the
show for a government prize of $\$ 15$, $\$ 10$, $\$$. At the
fair they too had a speed trial. Given a lot of apples, fair they too had a speed trial. Given a lot of apples,
they were required to pack two booxes commercially.
All contestants were known; the race was understood; All contestants were "known; the race was understood, a contest like this is based on one of the demands made
of farmers on their markets. This kind of contest surpasses the horse race considerably and leaves no surpasses taste, encourages a phase of agriculture that has
bame to stay, and the contest was free to enter and free come to stay, and the contest was free to enter and free
to those who wished to watch it. to those who wished to watch it.
Some thing else the government is doing to make
exhibing popular. They issue a model prize-list,
showing what large prize money and what should get a small amount of prize money. This encourages growing of the best
varieties of vegetables, the most popular kinds varieties of vegetables, the most popular kinds of apples
and the live stock that has the most cxtensive market It is worth while to know these things about our businest and is it not right to support a fair that has these aimss?
Our fair is educational, it is interesting, it is free and agricultural through and through.
B. .

## Canada's Young Farmers and Future Leaders.

## Topics for Discussion.

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

1. Field Crop Competition.

This is a big subject and one in which hundreds of our young men are interested. Tell us frankly
what you think of field crop competitions, the rules, the judging, the effect upon crop production. If any
improvements are necessary, suggest them. Copy mprovements are necessary, suggest them. Copy
. What is Wrong With the Community?
Discuss social, financial and other problems from a community viewpoint. Why have so many young people left the land? Why does almost every bory
tire of his rural surroundings at some time in his early iffe? Is there a lack of proper social intercourse?, Is
there a lack of co-operation between the different meimbers of the community? What is wron? What is the remedy? Articles
by December 30 .

What is Needed to Make the Farm Home
More Attractive to Boys and Girls? More Attractive
Is it conveniences, more attractive surroundings, or
better live stock? Does the system of farming in vogue better live stock? Does the systemm or farming in voguc atmosphere, or must the young man remain too much
on the land with production his only aim? What is on the land with production his only aim?
lacking? Articles should reach us by Jan. 6th.

Vary Literary Society Programs.
Editor "The Farmer's Advocate":
Even in this age when a good education counts for so much, many young men think that because the ard
going to beocone farmers a public school training is
gil going they will ever have use for In many cases a a
all
higher education is impossible, but every community should have aliterary sociesty to train its future leaders. community in training the young people to fill their positions in after lifie. By particiipating in the programs, their nervousness disappears and they become more ac-
customed to public speaking. Through time they also customed to public speakng. Through tme they also
become able to converse inteligently on many subjects about which they would otherwise have known nothing. In forming a society, a good method is to have a
meeting and form a small committee. This committec: meeting and form a small committee. This committec
then decides on the number of meetings throughout the then decides appoints about two reliable members to get
winter, and
un each ight's program. Meetings seem to meet with up each night's program. Meetings seem to meet with
the best success when held every other week. As rethe best success when held every other week. As re-
gards the program itself, it should be as sinteresting and
yaried as possible. Each meeting showld name, such as "Juvenile, Night," "Patriotic. Night,"
"A Night With the Poets." etc. As the alove titles indicate, the programs should
correspond with them. For example, on "Juverile
Night," surh things as. delates, orchestras, , choruses.

 that the same few do not provide the program every
night. If the audicnce knows one night that almot the

 towards music and so forth, and by gett ing wa progranm
in accordance with their wishes, everylody will be satis. the program it is also a grod idea to have the people taung part, ont, because there is no shing which will kiil enthusiamsooner than for the participants of a program
to sec somebody a great deal better than themselves helping them. the winter will be long, and it would not be a difficult task for every communty to
society both for the purpose of whiling away the long society both for the purpose of whiling away the long
winter evenings, and at the same time of educating them-

The Literary Society the Place to Find One's "Speaking Legs.'
 society yas been mine, and my experience, together with people of the community, who have been wise enough to make use of its opportunities, leads me to think that no Canadian rural community can afford to be without something of the nature of a literary society, it it is at all possible to successfully organize and conduct one. It not only provides amusement, but is educational as well, and
develops talents that perhaps would not otherwise be develops tale
developed.
It should be easy enough to organize and carry on a iterary society, if the young people of a community are
in a right attitude of mind toward it. But in all com munities there are some, and in others many, who seem
to have a desire to get all the fun they can out of life but who seem to have no desire to develop what talent work to prepare a debate, but would willingly drive ten miles to a dance. Too many of this class would make it But ,those who realize that "Life is real, life is earnest," and have a proper desire to develop what
talent they may have, are in sufficient numbers and not too inconvenient to one another, should organize. Someone or some few will have to take the initiative in this
and get others interested. The society with which I am connected would perhaps have never come into initiative and invited all those whom they thought would I will, as briefly as possible, describe how our society is organized and carried on. We reorganize early every the spring. The staff is composed of a President and
one Vice-President, who preside over all the meetings; Secretary-treasurer whose chief duty it is to record the minutes of each meeting, and report them at the next; a
newspaper staff, composed of three, who take turns at getting up the weekly news. We charge a small membership fee to defray necessary expenses. We meet once a
week, generally, in the homes of the members. Ocand invite the public. The programs are arranged by a committee of two (a boy and a girl) who are appointed by the acting President, two neetings ancad. Debates, programs. Other things featured are: the study of the lives and works of poets and authors, spelling matches, etc., guessing contests innumerable and fun. use clood social time, and speaking to the toasts in connection is Those who are anxious to have the society in which we are interested successtut, must consider how to make young people of the community. The programs should
he as varied as possible to give scope to all kinds of talent and tastes, and no one feature should be empha-
sized to the detriment of any other. Some have a talent for debating and naturally are interested in that feature;
others have a talent for music and are perhaps more indelating is emphasized at the expense of music, those in-
der moted in music will drop out, and so hy making the programs as varied as possible, many will be induced to
join by being interested in some one featere, and will
likelv, in the course of time, become interested in Although delates take a prominent place in our
society, we find that they are often more difficult to eet up than other kinds of proyrams, owing to reluctance on
the part of many member who are making use of their opportunities are finding
their "speaking legs," and are overcoming that feeling
of nervousness and s.lf-consciousness that emperrasses I often find that those who are respon sible for getting good program, try to get the experienced and proven
members, and overlook the less experienced and untried. We ought to be willing to sacrifice a little in the interest
of the inexperienced, and I would say to these that
when their opportunity comes, and it will come sooner or later, th make the very be-t use of it possible, for as
to whet ther you receive recognition in the future will hearers.

What One Society Has Accomplished.
Editor "The Farmer's Advocate"
The Literary Society which I have in mind was inaugurated the first Tuesday night of November, It has usually been opened every November during these years, and continues weekly till some time the following April, the date of closing depending on the weather conditions of each spring. At its inauguration the young people, who banded themselves together to form this society, drafted a constitution which has in no small degree been the factor in keeping the society together. Every condition was so thoroughly provided necessary to alter it except in some ere been found We divide the six months' (November to April) into two terms of three months each, and elect nem officers for each term. A nominating committee of a slate of canditates at our first meeting and their selection is usually elected by their report being adopted, Occasionally an election by ballot is necessary. The list of officers consists of: President, Sec-Treasurer,
Critic, Organist, Librarian, Guard, and an Executive Committee, consisting of not less than three nor more than seven members. Experience has proved the
minimum number to be the most satisfactory committee has entire charge of thost arrantisactory. This, and conducting the business affairs in general. on our still have some three or four charter members credit for maintaining interest during an considerable We have been fortunate in nearly always having one made out two weeks previous to the night on which they are given. A method adopted by the Executive
was in the event of any member purposely absenting was in the event of any member purposely absenting their number to next week's program, thus making it compulsory to do whatever you could or else stay away. As we never have more than twenty-five members,
it seems better only to have debates every two weels. It requires considerable time and trouble to prepare
a speech that will do justice to the subjects, and two good debates per month seem better than more less ruture prepared. Religion and subjects of a politital nature are debarred as undebatable. However, political
matters are quite thoroughly discussed in short speeches and essays. Some time through the winter, our Executive arranges inter-society debates with neighboring societies, and this is usually a very enjoyable occasion.
We have sometimes used a team of lady debaters for this purpose.
are quite interestin such subjects as "Current Events" expressing their views in that way have been very successful. Recitations, readings, humorous stories,
and music--both vocal and instrumental-make up a very helpful and enjoyable program. This society has been of untold benefit to the peopple,
not only of this community but of Canada in general, not only of this community but of Canada in general,
as we have ex-members throughout the Canadian
IVest West ranging in vocations from farmers to a Professor
in a University. We have members of local municipal
councils who are numbered ampng our ast members, councils who are numbered among our past members,
and nearly every young man who ever attended our and nearly every young man who ever attende public
meetings could quite intelligently preside at any gathering and conduct any business which might be
brought before it. We have been fortunate in having critics who quite capably and fearlessly criticized any
errors in pronunciation and grammar. In conjunction errors in proity a drama was prepared, and was suocessful in raising a hundred dollars for Red Cross work.
We have been successful financially and have a fair sized library for which we purchased, some two years ago, the latest edition of Chambers' Ency
This has a fund of references on any subject We usually meet once a month during the summer
months to exchange books, and always plan picnic months to exchange books, and always plan a picnic
some time the latter part of June. Thus is interest maintained during the whole year and to-day our society is as strong and flourishing as ever. Of course
everything has not been sunshine. We have had our everything has not been sunshine. We have had our
ups and downs, our good and bad years, but still I ups and downs, our good and bad years, but still
think our record is not a poor one. In any communty where there live enough people (not necessarily young)
who would take sufficient interest in such an organwho would take sufficient interest in such an organ-
ization to make of it a success, I would strongly urge ization to make of it a success, I would strongly urge
them to avail themselves of a delightful winter's enjoy$\stackrel{\text { ment. }}{\text { Wellington Co., Ont. }}$

Add a Reading Circle to the Literary.
Editor "The Farmer's Advocate":
The value of the literary society in rural life, while The value of the literary society in rural hire, while
not perhapp fully reoongized, is considerale. It meets
a need which cannot be met by other institutions, whech contribute more directly to the outward welfare
of the community, but which do not answer the reof the communirement for poritathe and eniotable rerceation,
and the mental stimulus of close contact with their and the mental leads so many young men away from farm life.
The most convenient way of starting such a society
is, at some other gathering, to propose the founding of is, at some other gathering, to propose the founding of
one, and, if this meets with favor, to arrange a meeting one, the election of officers and the appoint ment of a
for the and date for the gatherins, whic should be place and date for the gatherings, which should be
held once or twice a week. The shool houso or public library, if the use of either may be obtained, is as good
a place for them as any. A small membership, fee should be charged to cover the expense of the building,
and the procuring of outside speakers. It is a good and the procuring of outside speakers. It is a good
plan to elect new officers at each meeting for the one
following, so that as many as possible may be allowed plan to elect sew as many as opssibeete may be tallowed
fopportunity of acting. Also various committees may opportunity of acting. Also various committees may
be required. If rules are made, let them be as few as When the society is in full swing, a debate should be held nearly every week. The subjects of these debates should be such as to arouse interest in them,
for example, present-day aftairs, publicmaters, questions
of natural science. or the industrial world. Needless to say, subjects bearing directly on religion or politics
are to be barred. The rules of debating should be be punctually observed, and an attempt made to make of "pints", Different judges ought to be appointed
for each debate, and strict impartiality shown in the for each debate, and strict impartiality shown in the
verdicts. Once a month an outside speaker may be called
in to deliver an address. O these occasions it is
well to put a notice in the local well to put a notice in the local paper, announcing the
meeting, and to serve refreshments. Outside of this meeting, and to serve refreshments. Outside of this
the members should make their own specches, volunteers being called upon and allowed their choice of a topic,
as only in that way is the speaker likely to have sufficient interest in his subject to arouse that of his hearers.
Notes are allowable, but the address should not be written out and then read
Readings, while permissible at first, should later
be discourged, for, being somewhat mechanical they be discouraged, for, being somewhat mechanical, they
do not develop as great self-possession and ability to

Have as many members as possible concerned in each meeting. Impromptu speaking is helpful, not only
in this but for the practice given in quick thinking and readiness of words.
In connection with the other work, I should advise reading circles. Each member of the circle should
contribute one volume, which, after keeping the prescribed time, he should exxhange with someone
els. In choosing the books it is well to include a else. In choosing the books it is well to include a
few of those, which, vhile not of too difficult a nature, the average reader would not attempt. Thus, while
standard fiction and biography should cover percentage, a few good poems and volumes by such
authors as Emerson , Carlyle, or Ruskin, cannot fail to afford additional 'inspiration and widened outlook. are reading, they may be asked to give their opinions
of some of the books in the course of some of the books in the course.
There are other uses to
There are other uses to which a literary society
may be put, and they will vary with the dvantages
offered by different offered by different communities. In general, if use
is made of opportunities, the literary society the paratice in the consideration of of ociety, through
offered by debatars, by reading, and the added ability to express those interests and new capabilities, which will enrich not only themselves but the whole nation.
Essex Co., Ont.
J. Raymong Knister.

A Society Doing Its Bit.
Editor "The Farmer's Advocate"
The Literary Society is one of the most useful, as well as interesting organizations for the young folks of to-day.
The long winter evenings will be made much shorter if there is something to break the monotony. Parents
should encourage their children to take part with the rest of the young people, instead of trying to keep them
at home. Let them join the "Society" and make it prove a success, rather than a failure.
Right here let me point out a few of the very vital
uses of the Society: 1 , It gives the boy or girl b broader Uses of the Society: 1 , It gives the boy or girl a broader
view of life; 2 , , tives the young men a chance to fit themselves for the coming campaign; 3 , In the debates,
those who take part learn to speak in public; 4 , Musical programs give opportunity to train voices, It is necessary to elect a President, who must see
to all the particulars and must be head push", while in
office and also help him with his duties; a Committee of five, whose duty it is to arrange programs; a Sec-Treasurer,
who will look after the accounts; and last, but not least, an editor. We write out a paper which we call the
"Eye Opener", and it is a big hit. Every member can send in articles to the paper. . Those who write
should not get fresh and put in "breezes" to hurt people's feelings.
The first meeting will be the most difficult, but when
things, are well arranged everything will roll right
along, and the long winter evenings will be turned into
pleasant and prosith
 proceeds of our Society over to the British Red Cros.
Do you not
Carleton think it is a wise investment?
Co

## A Society in Three Parts.

I see by a recent iscue that you are inviting discussion among your younger readers on various subjects. Such discussions are commendable, leading to exchange of views and experiences, which will prove profitable to us
all. ${ }^{\text {all. }}$ As
As winter has arrived, the formation of a literary society is a topic well worth discussion. Such a society has been formed and still flourishes in our community. It might interest some of our readers if I state our ex-
periences. Two y
are to-day years ago this community was like many others are to-day, in that there were quite a number of young
people around and there was no organization people around and there was no organization or society
in the neighborhood at which they could meet for social time. Winter was on us with its long evenings and there was "nothing doing." Several of the more lively members of the community thought it a good plan to organize a society of some kind, so a meeting was called of all those likely to be interested, and the subject brought up. After much discussion it was decided to Religious; 2, Social; 3, Literary. A president was Reinious; 2, Social, 3 , Literary. A president was ap-
pointed and three vice-presidents, one to take charge of each department, each choosing a small committee to assist.
The society was to meet on a certain evening every
week in a conveniently situated building. Each there were four meetings, two in charge of the Religiou department, one in charge of the Social department, and
one arranged by the Literary department. were printed and topics allotted to members for the evenings in charge of the Religious committee. Social
programs and debates were arranged for the other programs
evenings.
This sy
society purem proves more satisfactory than a literary of entertainment and instruction. On the evenings in
charge of the Religious doprer charge of the Religious department, the program con-
sisted of hymns, a prayer and the reading from the Bible Then the topic was given by one of the members who
also arranged a short program afterwards, or some other also arranged a short program afterwards, or some other
diversion. On the
musical program was arranged, followed by the everpopular lunch, and then the rest of the èvening usually devoted to indoor games. The evenings in charge of the
Literary department were devoted chiefly to debating. This proved very successful.
Other sources of entertainment were literary competitions, hat speeches, and papers were read on authors,
etc. Such a varied program had the effect of keeping the members interested, and that is the only way to make a society a permanent success. Young folks will not come out regularly to hear dry lotures. It is not
natural. They must be amused. So the society that natural. They must be amused. So the society that
provides a judicious mixture of entertainment and instruc provides a judicious mixtureof entertainment and instruc
tion is the society that is both profitable and successul. Our society proved very popular and is still flourish-
ing. The community was almost dead, but this move ing. The community was almost dead, but this move
brought the most retiring out of their shells. Young people who could hardly climb the steps to the platform from sheer fright, learned to act as chairmen, put motions
and transact other business. Such a lesson is invaluable to young people.
attempting proved the most profitable of anything we threshed out, and our views broadened, but we learned something of the important art of public speaking, of
stating arguments logically and of criticising our opponents' points.
I speak from personal experience on this matter. At
my first attempt at debating my brain seemed to desert my first attempt at debating, my brain seemed to desert
me on mounting the platform. Thoughts failed to
come and words followed suit. I had a bad attack of "stage fright." The next time did a little better, but was still very nervous. Ideely. Ideas came and I was able to put them into words. I ceased to shake, and an audience lost its terrors thing on which $I$ ever put an equal amount of time. I think debating is great. By carefully preparing a debate, a lot of information is gained, the reasoning
powers are developed, and last, but not least, the mind is taken off the pigs and the sick cow, if only temporarily
The mental development of the country boy is ofte neglected. An effort should be made to cultivate his literary tastes, and to give him an interest in other
things besides his daily work. It will tend to make his things besides hork more pleasant and less monotonous when a little recreation is in sight, and will go a long way towards
keeping him on the farm, Now is the time to "get busy" and start a society. It is a movement which the
older members of the community should try and forward too What a great thing it would be if we could form a series of such socinies Essex Co., Ont.

Young People Should Prepare for Responsibilities.
Editor 'The Farmer's Advocate I recently overheard two neighbors talking of the
beneft that the Itierary sociey, which they had at-
tended some thirty to them. These men were leading men in their com--
munity and they agreed that whatever sucess they munity and they argeed the whatever success they
had attained as public speakers was due to the practice they had received in the literary society. Another
man in speaking of the young people in certain comman in speaking of the young people in a certain com-
munity said: you will find the young people able to take charge
of any meting oo any meting or to discuss any question that may come
before e the meeting." The reason was that they had
a literary society in the comity before the meeting." The reason was that they had
a literary society.in the comunity for a number of
years. These were two examples of the value of the years.
literary society,
We he have often
a failure when often selled men with good education make men with not so good an education but who had practice in public speaking when they were younger were able to make fair speeches. The practice that the young
people receive in the literary society helps to develo people erecive in the itterary society helps to develop
their speaking talents, and gives them confidence in Cher speaking talents, and gives them confidence in
themselves. something that would be hard for them
to attain later on in life. to attain later on in life.
gives them an idea how meetings should be litecriety gives them an idea how meetings should be carried
on, so that when they go out into the world they will have some idea of the proper procedurre. Because
of the lack of literary work in tarm life the people are likely to lose to a certain extent the knowledge
per they have gained at school. The literary society
helps to keep that knowledge fresh in their minds. In organizing a literary society, it it is well to secure,
if possible, the services of someone familiar with society work, as their knowledge of the work will be a great
help in organizing. The first thing to do help in organizing. The first thing to do in organizing
a society is to draft a constitution or set of rules to a society is to draft a constitution or set of rules too
govert the societt In cases where the rules of the
society do no
not apply, parliamentary rules may be society
resorted
do
Tice-Presicident of the society should at least be President, The- offesicens should focretary, Treasurer, and Critic,
power to transact all the thine power to transact all business necessary to the welfare
of the society. An order of business for honducting of the sociecy; $y$.
the mieetings should be arranged. The order of busines the med by Lodges, or that followed by the County Council
is very good is very good.
Different methods may be followed in conducting the meeting. In our societt a committee is appointed
to secure the program for each meeting. Another way is to choose sides and have each, side responsible Yor the program for a certain night. Points are awarded
each side for securing the best program and aloo for new members. This system has an advantage ove the other in that it creates a spirit of rivalry between the ir sides, win. Debates are one of the best things not only to maintain interest in the society but to help the speakers. To become a a good debater the spea ker must have conndence
in himself and be abbe to meet any new line of argument that his opponents may bring up.
Another topic is the discussion of current events, and, with the war in progress, there is a great opportunity
for discussion on the many different ouestions that up. It teaches the young people to read papers and to torm opoinions onople the events of the day.
Short speeches, as a rule, are not very successful as Short speches, as a rule, are not very succesflua as
they are liable to be memorized or else lititle work is they are ilable to be memorized or inse ittle work
done to prepare them, although in
are all right. In our iterary society we tried it out. are all ripht. In our literary society we tried it out.
The night of the meeting we were without a program, so each member present was given a subuject and had to speak for about three minutes
surprising how well some did.
One of the greatest difificulties we encountered in running our society was the lack of young people in the
neighborhood to help in the work. The young pente have either gone to the city or else have gone West, and, with the number who have enlisted, very few remain.
It remains for those who are left to fit themselyes fo the work that they will be alled upon todo mselves for the work that they will be called upon to do, as the young
people of to-day will be the men and women of tomorrow
Middiesex
Co., Ont.

Norman Stuart.

## Divide the Responsibility.

Editor "The farmer's Advocate" The success of a literary society depends on the
organization and management. In organizing, make a public announcement when and where to meet, and, T possible, have the officers appointed so that every literary society should consist of both old and young but the officers should be chosen from the younger members. I think it a good plan to change officers the responsibility and giving each member a chance to develop his or her ability. A new committee will try to keep up the good record of the former month; nothng succeeds
good and helpful. The subecests. should not be too deep for the debaters, rather something light and amusing than something d eep and uninteresting. Short ad
dresses should be encouraved, the subject choen should dresses should
be one the spearer is very faniliar with. The critic
should be a thoughtul person, who has had some
experience in public speaking and should $n$
harsh in his criticisms，but rather encouraging． Try during the term to have as many different persons as possible take part＇in the program，not
forgetting the children，as the parents will find it no trouble to go to＂Literary＂if their boy or girl is going to take part；then both child and parent are in－
terested．If possible have a neighboring society furnish the program for an evening．Often new ideas are gained in this way．
Many a prominent speaker will tell you，＂I got my
start when young by taking part in the literary society held in the little，old school house．

Young Farmer．

## Debates are Helpful

Editor＂The Farmer＇s Advocate＂
The value of a literary society cannot be set too highly．Possibly the best result obtained is on the educational side．This should not be understood as a course of school training，for it is different in this respect，that while in school study is a necessity：the literary makes it a pleasure．Suppose in the debate some one is given a subject that possibly he knows
nothing about．He studies the subject in every way nothing about．He studies the subject in every way
possible，and thus，though he only does it for pleasure， he is really learning a great deal．Debates，I think， give far better results than lectures on a subject．From an educational point of view lectures are as good as，
or better than the debates，but they miss one thing or better than the debates，but they miss one thing
in this，that when a speaker gives a lecture of this kind he almost invariably reads it．Here the debate is far in advance，as it absolutely forces one to a certain amount of unprepared speaking，because you must answer some of your adversaries points．Thus debates
are almost invariably carried on with only the aid of notes，or even without them．Public speaking，it
seems to me，is almost as great a result as the education seems to me，is almost as great a result as the education
involved．The ability to speak publicly cannot，in involved．The ability to speak pubicly cannot，in
my mind，be valued too highly．It gives assurance and my mind，be valued too highly．It gives assurance and
bearing when talking with others，and also conciseness of reasoning in argument，seldom found in speak－ ers unaccustomed to public speaking or debating． Though these are results of public speaking，the ability is in itself a great asset．Speakers can all remember practice．Practice takes away the nervous feeling practice．
of the beginner and gives the ability to think on one＇s feet that few beginners have．Better English，too
is an almost invariable result of public speaking and is an almost invariable result of public speaking and
debating，as everyone tries to avoid mistakes on the platform，and when this is practiced they unconsciously do it every day．Though these are intellectual improve ments，a social improvement results too．At first
people wonder just how to take it，but after some time they are sure to get the spirit of the movement．On evenings devoted to fun and a lunch，fun seems practical－
ly unlimited．Thus，in my own mind，I would sum up ly unlimited．Thus，in my own mind，I would sum up the eability to speak in public，and a clean social evening，
The last，in rural districts，is invaluable，as it lessens the tediousness of country life in winter
Organization is a most important thing．There
should be a President，two Vice－Presidents，and should be a President，two Vice－Presidents，and
a Secretary－treasurer．A appointed to supply a program．They may be elected
either annually or weekly．Personally，I prefer the either annually or weekly．Personally，I prefer the
weekly method．The annual method is to elect a commitee for a whole winter，but this is most unfair
as it is the hardest work possible to program where a society is starting，and even after
several years it is difficult．The weekly method is to elect a new committee at each meeting．This divided work is much fairer to workers and it gives a chance
for new ideas．The school house is an ideal place for it， for new ideas． and in most cases the trustees will，for one pight a week， allow its use．
It is necessary，after organization，to map out a
program that will hold the interest of all concerned program that will hold the interest of all concerned．
On debating nights a short program of recitations songs，readings，or short speeches is necessary after Girls are usually willin while the judges are conterring an instrumental．They should be allowed to debate as much as boys，for a certain amount of competition
always ensues．In a new＂＂Literary＂，girls will likely
 fun，but I wouldn＇t advise them in a new society，as an audience unused to the work would be considerably
embarrassed．If other societies are near，inter－society embarrassed．If other societies are near，inter－society
debates are usually possible，and certainly competition is a great encouragement to obtain efficiency in deloat－ three out of four meetings being devoted to them，
However，other forms may be used，such as two dehates， lecture，and a social evening．Some societics take but they come farther apart．
In our society the fourth is a social evening．The girls may not be as proficient as the boys in delates，
but here，at least，they excel them in that they are far the best cooks．The evening may be devoted to contests games，spelling matches，
amusement．Personally，
and these，well carried out，will prove a source of intellectual
and social improvement and afford an opportunity for tean amusements．
Oxford Co．，Ont．

Stop Dozing Over the Kitchen Stove． Editor＂The Farmer＇s Advocate
Winter is upon us and with it the all－absorbing question：＂How can I occupy my time to the best There are some who prefer and even insist upon spending practically all their spare afternoons and long winter evenings brooding over the hearth fire，or within easy reach of the cook stove．Thoughts of a trip in the cold to a nearby sleighing party，hockey match， entertainment，or lecture or the idea of becoming a
member of a literary society and driving a distance of a few miles every two or three weeks，with the pos－ sibility of being lauyhed at，are completely abhorrent． With these unambitious we have nothing to do and say only this that if they desire to make anything of
themselves they will not accomplish much by nodding over a hearth fire
．We all know how pleasant a warm cook stove or hearth fire feels after a drive on a sharp，frosty，winter＇s night，but who－barring the more settled older folk and day after day，week in and week out throughout the long winter with nothing more to occupy their
time than theregular routine of chores and three meals time than the regular routine of chores and three meals
a day Why this is opportunity of development along so many lines，both socially and mentally so why not take advantage
The literary society is one of the best and most necessary means of development in rural districts and if the country folk fully realized the real value of it
there would be few communities without an organized ＂there wou

The organization of a Literary Society is not so very difficult an undertaking，provided all who wish
to organize are willing to take hold and do all possible to make it a success．The appointment of a president， a secretary－treasurer，executive committee of probably
three or four，and a program committee，are the necessities，unless the society wishes to edit a pape： to be read at each meeting，which necessitates an editor and staff as well．
start is the as important a matter as any on the can easily find some name which will be suitable to their individual society，and this not only adds interest to，but also is quite necessary in inter－community debate Much interest can be creeated different societies．
Much interest can be created by publishing a society
paper，got up by an editor and staff and given at each meeting．If the happy hits given in this are received in the right spirit，the paper adds materially to the The program committee should be made up of two or three persons who know about the degree of develop－
ment of the different ment or the diferent members or the society and who arrange the programs accordingly．They should also
know the menabers who are musically inclined，either vocally or instrumentally，and who are most pro－ ficient at reciting，reading，public speaking or acting．
A good variation for the society after several meet－ ings in which debating talks or impromptu addresses diare the more important features，is to have a good dialogue，or a short comic dialogue，at every meeting
To have challenge debates with neighboring societie throughout the county－and to win－and again to win in the inter－couty debates，should be the ambition into it with the purpose in mind of making theirs the best in the county，the literary society will surely

## A Success for Thirty－Five Years．

EDITOR THE FARMER＇S ADVOCATE：
No greater or more interesting subject is there tha cause its great value in bringing to the front the very and as a source of pleasure it has no equal but of cours it must be well conducted and managed，and it is to Let me tell your readers how one sociesty is managed one that has had over thirty－five years of success and We have a president，vice－president，secretery and treasurer，an executive committee，two auditors，
two editors and a fourth－night committee．These are elected at the last meeting of each month to hold everyone a chance for an official position some time
during the season and at main factors of keeping up the interest in meetings．
The duties of the different officers are：The president， of both，such persons as the sticiety，may appoint，shall
preside at all meetings of the society and shall decide all guestions of order，subject to an anappeal to the meeting． The secretary shall keep the minutes，prepare
notifactions，onnuct the correspondence and if neces－
sary notify debaters，essayists，reaters and musicians The trposurer shall receive and account for all
moneys telonging to the society，and shall submit a report ot the auditors whencerer，and challed on to to do so，
and shall dispose of the money as the sociecty mav The executive committee sha！l choose debaters
and suljects and arrange the seneral progranl
Auditors shall audit the books of the society at
openly editors shall collect articles to be read and Night，＂and the fourthat is isht committee＂Mas chazine of the entire program for one night each month．This We meet once a wight．
seaon，（at least six months）．There iring the winter apart for general entertainment，one nisht kight se ＂Magazine Night＂，one as debate，and the fourth－ night committee has charge of the fourth night committee．These are notified of their the executive at least two weeks before the debate．The numb of speakers on each debate may be subject to number by the society as the occasion may offer．Each speaker is given fifteen minutes to speak and five minutes for decision is given by two or more iudges whe debate the ed by the meeting previous to the debate appoint debates personalities are not permitted，neither are Biblical references．This gives fair play to all de－ nominations or nationalities．Four members on each
side is usually side is usually the number on the debates．Sometimes
the debates are thrown open to ceneral discussi the debaters fail to take their places on stormy when Let us examine very carefully how interest is main tained．First，everyone must do the best，he or she can with whatever part is assigned to them．If it is a debate，it may mean some Whatever comes，if it counts when we have to study to learn something new．Everyone should and must do something or else the society will soon go for a＂＂bus ride．＂How ever，if each individual would do his or her very best in all ways to help along the work and to share the
pleasure，then there will be no lack of interest，but there may be lack of seats． Meetings may be held in the school house，or in
the basement of a church．Either makes a good place much better than a private house，because it is more public．Short addresses seem to be a success，pro－ ful speaker who usually has plenty to do to control himself．The long addresses are a hindrance to success， and seldom interesting．
Mid Ilesex Co．，Ont．

## Change Literary Society Officers Monthly．

Every neighborhood should have a literary society， and while such a society interests the younger people
chieffy，its doors should not be closed to the older members of the community，who are often much interest－ making it a success．We have no literary towards this neighborhood at the present time，owing to the Tact that there are too few young people to run one
successfully．We have，however，in previous years had a very successful society and I I shall try to explain
how it was started and some how it was started and some of the factors that con－
tributed to its success． When two or three
terested in starting the society，they sent word around the neighborhood that a meeting would be held at a certain private house for the purpose of starting a
literary society，and that everyone was requested to attend．At this meeting details were well discussed and finally the following officers were elected：President， ice－president，and Secretary．，A committee of three
was appointed whose duty it was to prepare the week＇s program．All officers were to hold office for one month， and meetings were to be held one evening in each week， also add to the interest of a society to have a motto． The great bug－bear with many literary societies is how to keep up the interest of the members but in
this respect we had little difficulty．In the first place we decided to devote our time to some branch of literary work entirely．Such societies often fail the place of literary work or study．While such a amuse－ ments may be harmless and may provide a great deal
of fun，they can never do the same amount of good in of fun，they can never do the same amount of good in neighborhood that a literary society can．
Another point which we found good up interest was to have the weekly program varied． Readings，recitations，dialogues，debates，the reading
aloud of some interesting book，or of some of the longer poems，offer a wide range of subjects from which to make up the evening sp program． Then again，each member will be more interested if he or she etakes part in each week＇s program．All
too often the tendency is for those who are most pro－ ficient in reading or reciting to occupy all the time， thius crowding out those who have less talent．These
then become discouraged because they are not allowed o take part，and soon cease to attend the meetings． good attention and encouragement to the poorer speakers，
or readers，they will gradually impove，and every or readers，they will gradually improve，and every
single member of the society will be benetited by it，
whicc member mid which，to my mind，should be the object the member
should strive to attain． Likewise，it is well $t$ have the officers change at
each monthly election．If a member is an officer he is more likely to attend，and try to make the society
boom．If he is not an officer，but expects to become one， he will be laying plans which he will put in execution
when he is elected．By changing officers each month， the members get an opportungity to hold the different
offices，and because of this training will be in a better

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position to hold public offices later in life if such duty
is ever required of them.
I have pointed out some of the benefits of the literary society, but core are many
members become more proficient in reading, reciting debating and speaking, but they are led to appreciate the better class of literature. They become more confident when speaking in public, and are better fitted to hold public offices. The society offers a splendid a good time once each week. Because of this it is particularly desirable in districts where there is a lack of social life. Can we not truly say that boys and
girls who attend such a society receive a training that girls who attend such a society receive a training that training they are better fitted for the part they are has great possibilities. If there is none in your neighbor hood now, start one going at once.
Kings Co., N. B.
F. Leslie Wood.

## Learn to Speak in Public

I am very much interested in literary society work,
believe believe there is nothing more helpful to a community, are, in my mind schools; one is the high schools, and the the public literary society, for after the public school days are over some go on to high school, but there are those who people have have their farms, etc., to attend to. These people have need of the literary society.
Now, there are a great many people
Now, there are a great many people in the country They may think they will never be sent to the House of Commons, but that is not the point. There are times in person slife when he is called on to get up and express not do this because they neyer had the people who canis where you get the experience-in the literary society I have heard capable business men and successful farmers get up on a platform and disgrace themselves. Also

I have seen men running for Parliament who had to have this early training. This early training. Thany ways of organizing a society; different people have different ideas, but we have found it a great The best of the community should be chosen as officers. for if the officers are not interested the people undoubtedsome Some advise having an oyster supper at the end of each season and have only members at it, which encourages people to join the society, while others advise or, in case of a debate, let one take each side. This makes competition, which causes great interest.
In regard to speaking, there are a great many who get discouraged. Officers should go to these and cheer have or not, and see that they get a chance again for "How can a man die better than facing fearful odds?" Middlesex Co., Ont.

ERLL Cobas

## Automobiles, Farm Machinery and Farm Motors.

## Ignition and Valve Timing.

The very interesting letter from the pen of W. E
Jackson, which appeared in our issue of Nov. 30 th compells us to be reminiscent, in so far as the establish ment of an automobile department is concerned. The writer shows a breadth of view and a knowledge of our editorial situation that is pleasing because perfect.
When he states that much of our advice has proven to be of every day value to the average motorist, he pays the highest compliment. It has not, and never shall be, possibly bring a message of real worth to every car owner. an article of such folly to present a technical story when stood? We read, for instance, in a recent issue of a prominent motor magazine, a paragraph entitled, "Energizing the Bucking Coil Intermittently by Means these two sentences, "The direction paragraph we find the bucking coil is such as to produce a magnetizing in the opposite direction to that produced by the current in the main or shunt field winding. Some systems have made use of the bucking coil in parallel with the resistance, and only a part of the shunt field current passes
through the bucking coil." All this may impart in formation to experts, but it is our aim and impact to so popularize our writings about the automobile that they may be readily taken to mind by even the most amaFather
Farther on in his letter Mr. Jackson maintains about ignition. Even those, he states, who very little advanced in the ignition of stationary pasoline engines, have found new problems to face in the motor car. We can say, in a general way, that ignition is a complex subject. In generator types there is liable to be a certain and stopping the distributor motor from turning freely. This causes retarding of ignition, and retiming becomes necessary. The remedy, however, should not be applied by a novice but done by an expert. Then again, If the points in your system are not set 1-32 of an inch motor missing. The resulting repair job must also be handled by someone with considerable experience. When the points are pitted, it is sometimes possible to preserve all the platinum and still remove the pitting by hitting the points with a hammer. In certain in-
stances, however, this method cannot be employed bestances, it is imporssible to get at the points properly. Cleaning them with an emery wheel gives excellent re-
sults, but no matter which operation is carried out, one sults, but no matter which operation is carried out, one
must remember that the points, when finished, should must remember that the points, when finished, should
be perfectly square in order that when they come toge perfectly square in order that when they hit face to face. In the matter of spark
gether plugs, it can be stated that points should be set 1-32 of an inch apart, and, of course, the plugs kept clean at
all times. It seems hardly necessary to add, in this
question of ignition, that the connections cannot give question of ignition, that the connections cannot give
good service if they are not maintained in perfect order. Mr. Jackson's letter also calls for information rebe said in this particular relation. Every automobile factory sends out its new cars with instruction books
that are intended to provide the owner with all the ineress. In these books and if they are followed, no trouble can possibly result, as the operation is not at all complicated. The main thing placed in the positions the book calls for. Some motorsts believe that an engine can be timed while it is runbusiness to-day. Factory experts are constantly being
told to warn repair men not to attempt this method, as it always results in dissatisfaction and disgust. It an be stated as an absolute and positive fact that a out of power. There are also, a number of people living in a fool's paradise which maintains as its standard rule that tappets should be constantly tightened. The
main thing to remember about tappets, is that their efficiency depends not so much upon how tight you keep them, but how loose they can be set. When you see a
or when you see him raise the hood of his car and adjust tappet nuts, you can believe that he is doing what he
thinks best, but that he has been ill-advised. This article is rambling, but if it brings home to you he idea that we are attempting to tell, in a popular way, those things that can be of the most value to the of any of automobiles, and if it relieves your mind barrass Our one object is to give maximum assistance to the Our one object is to give maximum assistance to the
greatest number.

## Ropes, Knots and Hitches.

Rope Work
Every farmer uses rope in some way many times in a year and, therefore, a practical knowledge of the correct methods of tying, hitching and mending rope has for him a real money value. If a hay fork rope breaks in the busy season, how many could splice it so that it would run through the pulleys? How many would tie knot and pull up the load as far as they could and then get the hay to its proper place by brute strength? Which way would you prefer? The first, of course. A horse tied by the neck with a knot that may slip may strangle himself through some person's carelessness or ignorance to show a few knots and hitches and splices, as th average person has not the perseverance to master great number so thoroughly that he can make them would have been had we known some of them on the farm, and hope that many readers will get a piece of rope and follow out each illustration carefully, so that the information may be of real value, but you will have to practice, because it alone leads to perfection. To those who may have some word of criticism we may say this ficient. There are several ways of tying many knots We have tried to give the easiest method to learn though it may not be the quickest to the expert. Be sure to keep this issue for reference.


It is not easy to state where knots end and bends and hitches begin so you must adapt them to your own use The cut shows the knots which we are going to dea with in detall. Starting from the wpor tho common knots and easily confused; most people, in fact make the granny knot when they really intend to make the square knot. Notice in square knot the rope A and B are on the same side of C , while in the granny knot they are on opposite sides. These knots are use but few have the patience to try to untie a square knot after it has been pulled tight.
The Weaver's Knot-Cross the ropes right under the left as in position 1, with the right hand pass the right rope from left to right to form a loop around its own the arm. Release the right rope and with the right hand bend back the end of the left rope into the loop just formed, pull the end well through and grasp as shown in 3, and pull with the right hand till it is tight.
Two straps may be joined together as in 5 . This is
 a good knot to tie two balls of binder twine together-
It is also used in making nets. McLelland's knot is very similar but the right hand rope has two or three turns in place of one.
 The Carrick Bend-A very good knot for tying
opes pull. Figure 1 shows a round in the rope At The end of that rope $B$ is placed under this turn over $A$ and under to the point $X$.
Now pull the rope $\$$ B through the
round turn in $A$ when round turn in $A$ when position $Z$
will result. The end taken under A through the bight B. Grasp the points D and E; that is the long ends, and pull tight. will notice that the start is exactly similar to the bowline. How-
ever, after arriving at position 2
instead of the bight A passing instead of the bight A passing
behind the long ropes it is pulled up through the loop and then
brought downward, as indicated by the arrow and over the large loop B (a bight is simply the bent rope.) The bight, $A$ is then brought


Bowline on a Bight.

## THE FARMER'S ADVOCATE.

back to its starting place and the loop B pulled out. The finished knot is shown in the cut with all the knots. it forms a flat knct and is used in casting horses, the round hind pasterns as desired.

 (2)<br>Farmer's Loop

The Harness Hitch and Farmer's Loop are used to form a loop at any point in the rope, also to shorten a rope, and either can be untied very easily. The former can easily be followed from the figure. The farmer's
dicated by the arrow. The halter tie should never be as shown then pull the long end through the loop. used around a horse's neck, because if the tie is not made It will positively never slip, and at a pinch makes a correctly it forms a slip knot. Some may recognize very good pipe wrench. Put the long ends A through
this as the Scotch plowman's knot used in tying his the loop as shown and pull towards A this as the Scotch plo
rope reins to the bit.


Clove Hitch.
Clove Hitch-Make two loops as shown A and B , place B over A , the finished hitch is in position on a post. easily loosened. It is used for fastening ropes to tent pegs, guy line ropes or

## loop-Form two round turns and hold them as shown <br>  <br> Harness Hitch.

in 1 , thus bringing side by side three ropes, $B, C, A$. between $A$ and $C$ next $C$ between $B$ and $A$, pull $C$ up to form the loop as in 4 . Thus a secure loop may be quickly formed without access to either end of the rope and easily untied after having been drawn tightly
Bowline.

The Bowline is the king of knots. It cannot slip, and is easily untied. Its uses are too numerous to is known as there is no danger of it slipping and choking the animal.


Halter Tie-Very few men tie up a horse in any definite way, right or wrong. When you go into a see how many tie lines are round the bottom of the hitching post. When tying a halter rope in a stal start as in 1, pass the rope upward through the ring then downward on the left of the long rope as in 2.
Grasping the short end in the right hand and long rope in the left, put the end through as in 3 and pull as in-

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tying on the side away from that shown in 1 and 2 at the other end of the plank makes a very secure scaffold hitch.

The Timber Hitch and Flemish Loop can be easily ollowed from the illustration, "Knots and Hitches Farmers Should Know," at the foot of this page.

For those who are desirous of learning more about this useful art I recommend "Knotting and Splicing Cassell \& Co., Toronto. Price 25 cents.
J. McGregor Smith.

## Of Most Value.

There is no paper or magazine that could be of more value to a farmer than the Advocate. It simply is a is $\$ 1.50$ worth of common sense and advice in each copy. Lambton Co., Ont. Hubert Pitz.

Hubert PIIz.


Knots and Hitches Farmers Should Know.

1. Square knot; $\begin{aligned} & \text { 2, Garrick bend; 3, Granny knot; 4, Weaver's knot; } 5 \text {, McLelland knot; } 6 \text {, Sheepshank; 7, Halter tie; 8, Guy line } \\ & \text { knot; } 9 \text {, Flemish loop; 10, Bowline; }\end{aligned}$


## THE DAIRY.

## The Annual Cheese and ButterMakers Meeting at Guelph.

 mud underfoot could dampen the enthusiasm of the annual "meeting-worth-while" of the Western Ontari Cheese and Butter Makers, held in the Dairy Class room of the O. A. College, Guelph, on Tuesday afternoon of Winter Fair Week. Extra chairs had to be placed in the aisles of the meeting-place to accommodate those who wished to listen to, and take part in, the discussions Not only was Western Ontario well represented from nearly all parts, but there was a goodly number from Toronto, which is rapidly becoming the centre of the butter industry for Ontario; and makers from Easteri Ontario, including representative cheese and butter buyers, also, Messrs. Barr and Singleton from the Dominion Department of Agriculture, and two members Atkinson. By the way, it is a good sign to have the law-makers of the Province taking an interest in meeting of this nature. They will thus be enabled to get theof
dairman's viewpoint and be able to promote dairyman's viewpoint and be able to promote more in telligen 0 dary Pratio
Jas. Bristow, President of the Western Dairymen's
Association, was Chairman, and assisted by Frank Hers Association, was Chairman, and assisted by Frank Herns 1.30 to 530 p.m., with scarcely a dull minute during the

Messrs. McKinney and Skelton and Miss Miller, of the Dairy Staff, discussed the experimental work done during the past season in the Dairy Department of the
College with reference to substitutes for methods and rates of salting butter, and the rennet fermented milks. The main conclusions were that pepsin makes a very good substitute for rennet where the latter is not otainable in sufficient quantity; that there appears to be no saving sal or increase in the "over pared with dry or damp salting methods, and that salt is not a preservative of butter as is commonly supposed and that good buttermilk can be made by using a lactic
or "bulgaricus" culture, and that mild alcoholic drink or bay be made from buttermilk, yeast and sugar, which will satisfy the thirst of some who feel the need of something stronger than water or buttermilk in these "dry but rather healthful
A rather warm discussion took place over the ques-
tion of methods of paying patrons of cheese factories ind Marer Dairy Standards Act which comes into ver been placed on the Stably no legislation that has aroused so much interest among the dairymen of On ario, as has this Act. There were those at the meeting who would undertake to settle the matter for the farmer interested and decide which method should be adopted,
but the concensus of opinion seemed to be that the farmers could best settle that matter among themselves at the annual meeting of the factory where such matters re disposed of each year. Disapproval was expressed by one speaker of the methods of certain officials who are apparently trying to ram their own particular views
down the throats of farmers and are seeking to compel patrons to adopt a particular system; and where facories have refused to accept these views, have sought to create dissension among the patrons after they have yoted to adopt a method which they (the patrons) be lieve to be best adapted for their particular factory. grading cream and butter, giving the results of preiminary work during the past season. The discussion
from "the floor of the house" was fairly free, and the makers expressed themselves as approving of, the work Mr. McLean, gave some helpful suggestions, quoting the experience of egg buyers buying on the "loss-off basis," which branch or the produce tra similar to that of the butter business.
Mr. scott found about 57 per cent. of the butter he 2 per cent grade two and 1 per number one, although he cent. grade two, and 1 per cent. grade three,
adted that probably hè had been too lenient and that more of the butter should have been
Classed as grades two and three The chief defects of classed as grades two and three The chief defects of
the butter were old and stale flavor. "fishy", flavor, poor body, too much silt, and poorly finished packages. The meeting suggested that it would be a good thing
have the butter grader also act as referee in cases of dispute between buyer and seller as to weight and quality The creamerymen expressed themselves as being favorable to grading cream delivered for buttermaking, a satisfactory system can be worked out, but it was
elt that some definite standards are needed as guides in grading, if the system is to become popular. Also, the Creamerymen would need to hold together on whatever
plan is adopted. Under present conditions the manucturers of butter are afraid to grade cream because of he danger of loss of patronage, but, as one man said,
f all butter-makers refuse to pay top price for second or third-grade cream, where will a market be found for he inferior cream? While the principle of grading ant and butter and paying a higher price for the fancy apply ing the principle, in actual creamery practice in the
Province of Ontario, especially at this time when milk

## and miilk producis are so scarce and dear. However, the problem can be solved by hearty co-operation of ali

reameryman exhibibited a sample of butternilk chees which he is making at his creamery and selling for ten
cents in a three-quarter pound package; and also in cents a three-quarter pound package; and also in
larger packages at about the same ratio of prices. He pop worked up a nice trade in his local town of about 500 popuation. The people are buying it ins
or as a supplement to the butter bought.
Two final work of the meeting was the passing of two resolutions, one asking the Federal Government no at present, as it was the sense of the meeting shoud at presend, as it was the sense of the meeting, should the creamery industry of Western Ontario but to the whole dairy business of Canada.
The other was a resolution asking that an amendment
the Dairy Standards Act to the Dairy Standards Act be made, compelling al Act, as at present, buyersfor city milk trade or for the human consumption, are exempt from the Act. Some of the cheese manufacturers claimed that the Act, as at present, wil cause the low-testing milk to be diverted to sumers of milk. Mr.' Putnam pointed out thet the cont dealer would not care to pay a higher price per 100 lbs or per can for milk testing 3.8 to 4.0 per cent. fat, as it would be of no special advantage to him, where the city also suggested that city milk trade is cent fat. It was by the Ontario Milk Act by which towns and cities are allowed to fix their own standards, and a change in the Standards Act along the line of the resolution would cause a confict of authority. However, the resolution passed without a great deal or discussion, as the members
were becoming somewhat tired after the d One point should be carefully considered by those who are fond of moving and passing resolutions, and who would add to the present restrictions of milk proThe scarcity of on the verge of a milk famine in Canada. hampering seriously consider whether or not they shall continue in the dairy business. They are asking themselves
whether or not it is worth while when other


Calamity Johanna Nig
R. O. P. record of 25,443 libs. milk and 1007.5 lbs . butter in a year.
ing are opening up which are fully as attractive as dairy ing from a monetary We have the e this point, where the restrictions became so numerous and oo shackling that dairy farmers sold their herds of dairy cattle, and in consequence there has been a milk war in the welfare of the Commanwealth have started in vestigations as to the causes of the decreasing milk
supply. The Boston Chamber of Commerce issued a pamphlet ast year, after fully investigating the milk and crean situtation in New England. The concluding paragraph New England:
"If agitation, individualism and lack of co-operation continue, the dairy business in New England will ma terially suffer, thus not only seriously affecting the armer for trade, but also reacting upon the prosperity of the large centres of trade in New England
Coming back to the meeting, it was certainly "worth while." There was a free and easy exchange of thought This phase should be fostered in every way possible It would be a serious mistake to allow formal addresses to become a strong feature of the meetings, or to allow a
few speakers to monopolize all the time. The man in the country creamery and cheesery, has some good ideas which are worth having. Let's have them, and, if necessary, not so much from the man wh
consider that dairy wisdom will die with him.

## HORTICULTURE.

Growing Late Cabbage on Farm or Garden
An interesting paper on cabage growing was pre-
pared dy Fail Work, of the Cornell $\mathrm{University}$,to be tead at tre Ontario regetable Grower's Convention hedd in Toronto ast month. Time did not pernit the
delegates present to lear this address. but it will he delegates present to hear this address, but it will be
pubbished in the Association report. We herewith reproduce the part dealing with late cabbage, a crop
that general larmers as wel that general farmers as well as vegetable growers might find proftable under win

## The Late Crop.

Late cabbage is a most useful money crop for the general farmer. The price per ton does not aot average high, but year in and year out the profits are satios
factory. The farmer who pants some years
 Domestic sorts, ilike Glory and Early Summer , are market for full markets and for kraut. For storaze, Danish Ballhead is by far the leader, though various strains produce his own seed, building tup a strower may well produce his own seed, building up a strain to meet
his own requirements. Late cabage may be grown on a wide variety of moderately heavy soils. The light sands are likely to suffer from drouth and the clays are hard to manage. A. E. Wilkinson, Exxtension
Special ist in Vegetalal Gardeni has conducted carefiul demonstration trialiversity, ndicate that the crop does well on most soin withe addition of potash. Phosphorus is decidedlys prothtable and 509 to 1,000 pounds ser arre of acid goods is recom-
mended. Manure per acre in the fall or early spring, is a onod fifteen tons ard takes the place of commercial nitrogen unlese some nitrate is used to meet a special need. Cable Cablase should be planted on the same ground, only after the lapse of severat years on account of disease, especially
clubroot. The crop follows fall-plowed sod very nicely. . . Plants for late cabbage are usually grown in the
 bed should yield an an abundance of plants for an acre.
The seed-bed should not be The sedd-bed should not be
over rich and nust be abso-
 Magigot injury in the seed-
bed is often very serious. covering of verheeseciouth. (20 effective. Germination under screen is higher but the growth tends to be soft.
For this reason it is well to remove cover ten days this time the maggot flies have gone in our climate. The markets call for and spacing is closer than tomary between rows, 18 to
24 inches is sufficient in the row, save for large domestic types. Check-row planting
is to be recommended as the crop makes its growth during a season when drouth is likely to prevail. Hence cross cultivation pays well. Plants are set by hand, by hand-
planters of the Masters' type planters or the Masters type The latter method is less arduous but the cost is not The hand setter from that with the other two plans.解 though it is very economical of water even in dry weather. Stands are excellent when it is well handled. ace in the field, thinning four or five seeds at a plant. A mand thining a month later to a single plant. A man plants a pound of seed on an acre in time. In favor of this plan is the saving of plantgrowing cost, non-disturbance of plant growth when transplanting, and possibly a saving in time, for the job then fits better with other farm work. On the other hand tillage cost is heavier and plants are more easily cared
for in seed-bed than field. Some have used this method when plants are scarce and there is prospect of a sho crop. Even Copenhagen has been used, planting as late as June 20.

Irrigation of late cabbage is not ordinarily practicable, and persistent cultivation is absolutely essential
The soil should be prepared early and harrowed ofte till setting time. Slow growth should not discourag the planter, for the crop is occasionally practically
made after the first of September.

## Marketing.

Late cabbage may be sold directly from the field with winter p-ices allowance labor cost $p$ ore must be made for extr evaporation and spoilage, together with the marke risk. Successful storage requires sound cabbage, low
temperature, ventilation, and humidity high enough

THE FARMER'S ADVOCATE.
Founded 1866
to prevent evaporation, but not high enough to collect mosture in drops. Insulated houses without restation to facilitate loading. Many New York growers cut the heads and lay them in a single layer on the ground in the woods or other well protected place, covering with leaves or straw. This keeps cabbage in exceptional ly good condition. Immature heads, if pulled root during the winter.
Does it pay to grow late cabbabge? Some say yes, some no. The cost varies from $\$ 40$ to $\$ 60$ per acre
and the higher investment usually brings the better and the higher investment usually brings the better
net return. Fifteen tons per acre is a good yield for failed but once in eight years to harvest twenty (20) tons. Domestic runs about 3 tons higher than Danish The dairy or stock farmer is interested in the roughage
from the cabbage field, some valuing it as high as $\$ 4.00$ per ton. Danish probably averages from the field about $\$ 6.00$ per ton. Some years only the best can be sold and much is moved at as low as $\$ 3.00$ or $\$ 4.00$ per ton. Records are broken this year at $\$ 30.00$ to $\$ 40.00$. Do mestic usually sells somewhat lower than Danish Kraut manufacturers frequently contract year in and
year out at $\$ 5.00$-very nice last year, a bit trying this. year out at $\$ 5.00$-very nice last year, a bit trying this yields and higher prices.

## FARM BULLETIN.

## Successful Fat Stock Show at Toronto.

The seventh annual Fat Stock Show, held at the Union Stock Yards, Toronto, on Friday and Saturday December 8 and 9 , was in many respects one of the The majority of the more finished animals in the in dividual classes came from Guelph Fair, although in nearly every class there was considerable new blood and this, added to that of the carlots, brought the total number of entr
record year of 1914.
A slight falling off in attendance was perhaps due to the unseasonable weather, although even this did not seem to keep the prices down when the winners
were brought into the auction ring on Saturday. Blue King, the grand champion steer at both Toronto and Guelph was purchased by The T. Eaton Co. for 50 cents per pound live weight. Another notable sale
was that of the carlot of 15 butcher steers for $171 / 2$ cents. These, however, were not only nicely fitted, but were also an even lot, grading almost A 1 baby-beef. Awards

## Cattle.

Pure-Breds,-Stee f. $_{\text {two. years: }} 1$ and 2, J. D.
Ferguson\& Sons, St. Thomas; 2, John Black, Fergus , John Brown \& Sons, Galt. Steer, yearling: 1 John Barr, Blyth; 2,3 and 4, T. A. Russell, Downs-
view. Steer, under one year: 1 , John Brown \& Sons; 2, T. A. Russell; 3, G. B. Armstrong, Teeswater; 4 Alex. Young, Mt. Hope. Heifer, two years 1 , John
Gardhouse \& Sons, Highfield; 2, R. \& S. Nicholson, partkhill. Heifer, one year: 1, Kerr \& Davison, Myrtle John Black; 2, A. Elcoat; 3, Thos. Chard, Lambton
Mills. Champion pure-bred steer or heifer: John Brown \& Sons.
Grade or Cross-Breds.-Steer, two years: 1, Jas.
Leask \& Sons, Seagrave; 2, T. A. Russell; 3, Ferguson \& Sons; ${ }^{1}$, Hicks \& and 2 , Leask \& Sonsts, 3 , A. A. Bartrer, Guerph; 4 , T. A. Rand 2, Leask \& Sons; ${ }^{\text {R }}$, A. Barber, Stereph; 4, Joseph Stone, Seagrave. Steer, under one year: 1 and 5, Leask \& Sons; ${ }^{2}$ and 4, W. H. Guthrie,
New Dundee; 3 , John Black. Cow, three years and
over. 1, F. C. Willmott \& Son, Milton; 2, W. S. Hare, over: 1, F. C. Willmott \& Son, Milton; 2, W. S. Hare,
Watford; 3, A. Barber. Heifer, two years: 1, John Black; 2, Andrew Mackie, Ariss; 3, J. J. Reid, Teeswater 2, A. Jatr a Sons; 3 , Joseph Stone; 4, John Black. Heifer under one year: 1, Leask \& Sons; 2 , Stone; 3 , A. White,
Guelph; 4, D. Hanley, Cainsville. Boys' steer feeding ompetition: Emerson McConachie, Lythmore. Dehorned butcher steer, T. Eaton Special: W. H. Guthrie.
Grand champion fat steer of the show: Jas. Leask \& Sons, on Blue King.
Car Lots. - Fifteen dehorned steers, 1,250 lbs. $1,250 \mathrm{lbs}$.A. A. Armstrong, Fergus. Fifteen dehorned
steers, under 1,300 lbs., Harris Abattoir Special: John Brown \& Son. Fifteen buther steers, 1,100 lbs. sters or heifers, Swift Canadian Co. Special: Jas.
Shea, Dublin. Fifteen dehorned steers or heifers, under fifteen months, Waller \& Son Special: R. L.
\& R. Short, Elora. Fifteen heififers, average weights: Mitchell. Carload fifteen butcher heifers weight 1,100
Sheep.

lambs, farmers special. Eloat. E. Cowan; 2, J. D.
Ferguson \& Sons; and under two: 1, J. S. Baker, Burford; ; 2 , yea Brethour \& Nephews, Burford; 3, A. W. Talbot, Beaver ton. Three wethers or ewes, under one year: 1, Robt
McEwen, London; 2, J. S. Baker; 3, Brown \& Scott Mcewen, London; 2, J. S. Baker; 3, Brown \& Scott
Galt. Carlot, fifty fat sheep: C. F. Jackson, Shedden Galt. Carlot, fifty fat sheep: C. F. Jackson, Shedden
Carlot, fifty lambs:, J. D. Ferguson; 2 , J. E. Shields Mt. Albert; 3, C. F. Jackson. Ten lambs, farmers special: 1 , D. Hanley, Cainsville; ${ }^{2}$ 2, J. D. Ferguson
3, John Houston, Six lambs, under 90 lbs., farmers
special: 1, S. Baker. special: 1, J. S. Baker; 2, D. Hanley; 3, John Houston

## Swine.

Three barrows, bacon type: 1, J. E. Brethour \& Nephews, 2, Chas. B. Boynton, Donar, 3, J. K ing competition: 1, Chas. B, Boynton: 2, Daniel ing Leompetition: ${ }^{1}$, Chas. B . Chard. Three bacon hogs, 170 to 225 lbs., farmers' special: 1, J. E. Brethour exhibitor, 170 to 225 lbs.: 1, Chas. Boynton; 2, J. E. exhibitor, 170 to 225 ibs.: Th Chas. Boynton; 2, J. E.
Brethour \& Nephews; 3 , Thos. Chard. Five barrows 170 to 220 lbs., suitable for English market: 1, Brethour Pen containing Thos. Chard; 3, J. K. Featherston 25 years: 1, Thos. Chard; 2, Chas. Boynton; 3, F Broad, Pifferlaw. Carload, fifty bacon hogs, 170 to 225

Oxford Breeders' Consignment Sale The Oxford district Holstein Breeders' Club held their firt consignment sale at woodstock, on December quality. Several of them were winners in lare lity high at various shows this fall. The cows in milk had every indication of being heavy producers and this was borne out by the records. There was a large turn out of breeders, and bidding was brisk throughout. Oxfor breeders have made a, reputation for themselves by
always consigning good stuff, and the confidence of the public was signified by the prices paid. It was the best sale the Club has ever held. Practically all the females were either fresh, or springing, and the average for forty four head was $\$ 185.63$. There were several choice bul calves sold; the highest price being \$2a.10. Princes sale at $\$ 375$. She is a particularly choice individual and gives a large flow of high-testing milk;
Following is a list of the animals selling for $\$ 100$ Nettie Posch, Geo. De Montmorency, Woodstock. $\$ 170.0$ Fayne Segis Mercena, J. Campbell, Stratford.... 160.00
Helen Korndyke Tehee C P
 $\begin{array}{ll}\text { Inka Sy } \\ \text { Pontiac Atlas Kent, Roy Saunders, St. Thamas } & 115.00\end{array}$ Princess Fayne Colantha, T. A. Spratt, Billing's Bridge Comelia Fayne, G. E. Brown Cope
Madam Melba's Dot, Frank Pike, Burgessville. Beauty Pietertje, J. Campbell Bell Lee 2nd, W. S. Shearer, Listowel.
Highland Tryntje Calamity, T. A. Spratt.
Dutchland Hiawatha Beauty, J. N. Cameron
Nettie Pietertje, H. F. Loney, Wiarton
Nettie Pietertje, H. F. Loney, Wiarton.....
Gretgui Posch Walker, P. Marlatt. Beamsvile Pussie Gretqui Lyons, Geo. Hart, Woodstock Faforit Tehee Walker, G. I. Cowing, Innerkip.. Johanna Tehee, P. Marlatt
Johanna Hengerveld, D. MacKay, Ripley
Inka Mercedes Tehee 2nd. H. Foster Wood.
stock
Flossie Hengerveld Tehee, Geo. De Montmo Bella Mercena, H. F. Loney Netherland Colantha Johanna, W. P. Thistle Homestead Josie Colantha, H. F. Loney
Royalton Josie Colantha, H. B. Eby, Kitchener Lena Boutsje Posch, H. F. Loney
Canary Abbekerk Posch, G. E. Brown, Cope Segis Princess Dekol, C. H. Hilliker, Burgess-
ville Aaggie Mercena Posch, R. W. Bedford, Chat
ham Belle Mercena Posch Artis, F. N. Case Burgess-
ville
 Francy Posch Calamity. H. F. Loney
Calamity Cornucopia, W. S. Shearer
Countess Clay Mechthilde . Countess Clay Mechthilde, T. A. Spratt.
Henterveld Beauty, D. Mackay
Belle Pietertie Grey, R. J. Kellv, Culloden Belle Peetertije Grey, R. J. Kclly, Culloden -
Rose Tilla, R. W. Bedford. Chatham Heather Bloom, Geo. Willison, Woodstock,
Lena Mercena, T.J. Lammiman \& Son, Curries
Lakeviev Winner T. T.
 Woodstock
Aaggie De Kol Francy, J. Orton Haviland, Pontiac Atlas Kent, Roy Saunders
Meadow View Dot., P. Braundo, Woodstock
Sir Douglas, Wo. Bell Sprindord
 Duke Pietertje, Roy Sackrider, Burgessville ${ }^{200.00}$ Springbank Schuiling Lad, B. D. Smith, Spring Canary DeKol Springbank, H. S. Snyder, Wate122.50
135.00

## Current Comment.

by peter mcarthur.
Not since the outbreak of the war has there been so much to talk about and so little to say that is worth is surprising, and everyone hopes it is all for Britain and that is about all there is to say about it. It is sest, prising because the war council contains Earl Curzon and Lord Milner, whose ideas have been at all times about as opposite to those of Lord George as they could possinds were describing these statesmen journalistic Roman satraps" who regarded the common eeopled merely as material to be used in developing their schemes of empire. And Lloyd-George was the champion of the common people. Now he is harnessed up with these offcial autocrats and with Mr. Henderson, who may
be regarded as a champion of the people. Certainly it is a strange team, if a powerful one, and we must wait and see how they will drive together: Moreover, the driving may be more difficult by the fact that the irrepart of the British Press, is wielding thels an important part of the British Press, is wielding the lash over them.
Northclife is much like "The wind that will be at all times." To him trouble means news and if there is trouble brewing anywhere he may be depended upon to foment it. If there is no trouble, it is believed that he will not hesitate to make it. Despatches from forcing out Asquith and his colleagues. If that is whe it is not impossible that he may howl the present government out of office. Already he has stated that he is not entirely satisfied with it, so it is not unreasonabe to expect developments in the near future. It is to Lord lowest rung of the iournalist ladder to the topmom the the trouble is that even as the proprietor of the Timesthe old-time British Thunderer-he acts like a newsboy shouting the headines of an Extra on a street corner. He is an editor-in-chief with the instincts and methods people would have a chance to grapple nore intellipeople wouth wave a chance to grapple more intelliHis sincerity is open to question because he has been
known to take' opposite sides on the same issue in his known to take opposite sides on the same issue in his
different papers-exploiting the views that happened to different papers-exploiting the views that happened to
be popular in the particular city in which a paper was be popular in the particular city ill which a paper was
published. This may be good yellow journalism but it does not make one feel comfortable to find that he is wielding so much power in the present crisis.

Germany's offer of peace is another amazing piece
of news about which it is impossible to say much. At of news about which it is impossible to say much. At it and there is little to show what terms will be proposed into consideration the fact that the Allies are merely beginning to arrive at their fighting strength it seems impossible that they will be willing to accept a peace that is "Made in Germany." Moreover, Russia has announced that she is to have Constantinople and the Dourdanelles offer peace terms in which this would be conceded. I am afraid the outlook for an early peace is not promising, much as we should all like to have peace. Still there is no knowing what may be going on behind the battle-smoke of Europe. Uur news is too much go on with our war work and other work and await the

## - ...

Some weeks ago I made a few remarks about the
unusual price of straw this season and, reasoning from information which I found accepted by everyone, 1 found that wheat straw is really dearer than hay when they are exchanged on the basis of two loads of stray from was not a fact hut tradition. I had been assured that straw is so bulky that it is im imsisible to put more than half a ton on an ordinary ra't. To prove this I.
was told that someone, somewhere, sometime took a was told that someone, somewhere, sometime took a
load of straw to market, sold it at a afancy price by the ton and found on weighing it that he had only nine
hundred pounds in his load. So the tradition was started that a load of straw is light and bulky and that in exchanging it for hay at such prices as prevair this year-five dollarsa ton for straw and seven dollars and
a half for hay-if a man got only two loads of straw for one of hay the straw would figure up at ten dollars or lot of talk and the experience of someone, somewhere, sometime who weighed a load of straw and found that as settling the matter finally. Apparently no one in the district had ever sold straw by the ton so no one man who was delivering a load of straw in town felt
mufficiently curious about its weight to go to the public sufficiently curious about its weight to go to the pubiric
scales and have it weighed. It was only an ordinary Iadd but it weighed twenty-nine hundred pounds. He
told me that he could easily have put on two tons. So
the wi meighin weighing Onta as hel and the burg;
W. J. ford; W
0 . A. ddress, potato
believed Canada time. to grow proper
profitab
results results
were th
variety variety
worth worth
yielder.
yield $f$. yield
some loc Cobbler he No planted
the widely believed tradition about the nine-hundred pound load is herewith thrown into the discard. The man must have had a jag and not a load. With straw weighing between one and two tons to the load the
exchange of two loads of straw for one of hay is not exchange of two loads of stra
unreasonable at present prices.

## Ontario's Seed Growers' Association

 The annual meeting of the Seed Growers' Associatio was hee following directors were elected: William Barrie Galt;L. D. Hankinson, Aylmer; A. McKenney, Amherst burg; J. O. Duke, Ruthven; R.' W. Knister, ComberW. J. Suirrel, O. A. C., Guelph; A. McMeans, Brant ford; William Na ismith, Falkenburg; Prof. J. W. Crow O. A. C., Guelph; A. S. Maynard, Chatham. In an address, Dr. Zavitz pointed out the importance of the believed that the potato crop should be developed in Canada to a greater extent than it is at the presen time. Ontario should not have to import potatoes, as many parts of the Province are particularly well adapted
to growing the very best quality of tubers. With the proper management and a favorable season they are a profitable crop. The varieties which gave the best results at the Ontario Agricultural College this year were the improved Rose and the Dooley. This latte variety is grown extensively in Middlesex and Went
worth Counties. It is a round, white potato and a good yielder. The Davies Warrior stands the highest in average yield for the past nine years, but some years and in some localities it does not do so we!! as other varieties The Extra Early Eureka, a potato similar to the Irish Cobbler, is considered the North give good results for seed. In some parts of Scotland an early crop is grown and a later crop planted for seed purposes, and it is found that the
have been obtained at the College. Potatoes not fully
matured make better seed than those well matured matured make better seed than those well matured. in the Province
E. D. Eddy, of Ottawa, gave an address on seed corn asking the government to raise the standard of seed corn. Corn that failed to germinate 80 per cent. or for No. 1 grade was fixed at 95 per cent. germination,

## About Unions

Some time ago I took my team into town to be shod all around. "Kantslides or common shoes?" asked the shoes from 50 cents up." Kantslides were decided on. and while the "work was going on conversation flowed. "I remember," I said, "when horses were shod for 25 cents per shoe. Yes, and 1 can go you one better when two blacksmiths in our town did removals for eight cents per shoe." I looked around the wall. In a frame protected by glass was a green placard. It gave union prices for all standard blacksmith work and stipulated that all small work should be charged for at tion that could keep them in line and make them stay by their prices. "Why shouldn't we?" said the blacksmith. "It's our organization that made these prices possible.
I went in the barber shop for my regular monthly
shave and hair cut. In a smaller frame than that shave and hair cut. In a smaller frame than that
sported by my blacksmith friend was the latest price sported by my blacksmith friend was the latest price
list by order of the union. Everywhere it seemed the same, carpenters, bricklayers, masons, railroad engineers, everybody had their unions that regulated hours of
every
labor, wages, prices charged or what not. They all
seemed so blooming independent, too, these tradesme the nationmer, one of that class that is the "bulwark the nation, the most independent man on earth, at
least that was what the political candidate told me with great emphasis and hearty gusto. All right, I would assert my independence.

My team shod I hauled my load of wheat around to the elevator. He looked at it, passed a sample from
one hand to the other, scattered the handful to the one hand to the other, scattered the handful to the "I belong to the farmers' union," I said,'"our price is 90 cents, we produce the wheat and we know how much it costs to produce it, 90 cents is our price, take it or weighed the load and wrote" out a check. As I passed out I heard him remark, "Too bad, too bad." In the grocery store I asked for a sack of flour. "Three fifty a hundred," he informed me. "Strange," I said, "I sold my wheat and the buyer set the price, I buy flour
and the seller sets the price, how is that, where do I come in anyway?" "You ought to be glad you're alive," the clerk informed me
We farmers taken as a whole comprise a class much more numerous than the combined roll of a dozen trade we have the first handling of it, the prime chance to dominate the destiny of mankind. The prices of the world should be at our bidding by proper organization inancing, distribution, etc., we could control the market of the world. Why then do we not see and grasp
our opportunity? Why? I'll tell you why. The people of this neighborhood have always fought and always will." That's why. The farmers of this world need a mighty Moses to lead them out of their self-impose wilderness, to take them up on a high mountain where, stretched out before them, is a world for the taking. we have learned how to regulate our own household we will be trusted with the regulation of the household of the world.
A. E. Roberts.

## Toronto, Montreal, Buffalo, and Other Leading Markets.


of the week medium quality lambs
weakened, and were 25 c . to 40 c . lower in price. Sheep were strong throughout the
week; light butchers' selling at $\$ 8.50$ to \$9.75, a few lots of beeding at $\$ 8.50$ to sold at $\$ 10$ per cwt . Heavy fat sheep brought $\$ 7.50$ to $\$ 8.50$. Calves were
strong strong all week, and shared in the general
price advance on Monday. Choice veal grew stronger toward the close of the
week and made another advance of 250 week and made another advance of 25 c .
to 35 c . while common and medium quality calves remained steady. HogsThe hog market opened Monday at $\$ 11.75$
for fed and watered, and $\$ 12$ weighed of cars, and the majority of hogs sold at these prices on Tuesday and Wednesday also, but on Thursday the bulk sold at
$\$ 11.85$ for fed and watered, and $\$ 12.10$ weighed off cars. The live-stock market the past week was a very
one from a seller's standpoint.
Live-stock Quotations.-Heavy steers,
choice, $\$ 9.75$ to $\$ 10.25$; choice, $\$ 9.75$ to $\$ 10.25$; good, $\$ 8.75$ to $\$ 9$
Butcher steers and heifers, choice, $\$ 8.75$ to $\$ 9.25 ;$ good, 88 to $\$ 8.50$. medium, $\$ 7$ to $\$ 7.75$; common, 85.50 to $\$ 6.50$. Cows,
choice, $\$ 7.25$ to $\$ 7.50$; good, $\$ 6.75$ to $\$ 7$; medium, $\$ 6.25$ to $\$ 7$; common, $\$ 5.75$ t $\$ 86$ Canners and cutters, $\$ 4$ to $\$ 5$. Busis
best heavy, $\$ 7.50$ to $88 ;$ good, $\$ 7$ to 87.25
$\$ 8$ bestium, $\$ 6$ to 86.50 ; common, 85 to
medo
$\$ 575$, 8 ,
$\$ 5.50$ to 8.7.7. Stockers and feeders, $\$ 5.50$ to
87.25. Milkers and springers, best, $\$ 8.5$
8. to $\$ 120$ medium, $\$ 60$ to $\$ 70$. Lambs, choice, $\$ 12$ to $\$ 13$; culls, 88 to $\$ 9.50$
Sheep, light, 88.50 to $\$ 9.75 ;$ heavy, $\$ 7.50$
o $\$ 8.50$ C Clues, choice $\$ 1.10$ to 12.50 o 88.50 . Calves, choice, 511
medium, $\$ 8.50$ to $\$ 12.50$
$\$ 10.50$; common, $\$ \theta$ to 88.50 ; heavy fat, $\$ 7$ to $\$ 9.50$ Hogs,
fed and watered, $\$ 11.75$ to $\$ 11.85$; weighed off cars, $\$ 12$ to $\$ 12.10$. Less er cwt. off stags, $\$ 1$ to $\$ 2$ per cwt. off perth. hoss and $\$ 2$. to 83 per wewt. off thin
ligeder pigs, and one-half of one per cent. Teeder pigs, and one-half of ont

## Breadstuffs.

Wheat-Ontario, No. 2 winter, new,
per car lot, $\$ 1.16$ to $\$ 1.63 ;$ No. 3 winter,
per car lot, $\$ 1.61$ to $\$ 1.63$ (according to $\begin{aligned} & \text { per eat outside). Manitoba, track, bay } \\ & \text { fright } \\ & \text { ports-No. } 1 \text { northern, new, } 81.873 / 4 \text {; No. }\end{aligned}$ ports-No. 1 northern, new, 81.873 , No
northern, new, 81.843 ; No. 3 northern new, 81.7911 , No. 4 wheat, new, $81.761 / 4$ old crop, trading 4c. above new crop.
Oats. Ontario, No. 2 white, 60 c. 62c., nominal; No. 3 white, 59 c . to 61 c .,
nominal. Manitoba oats (track, bay
 Barley,-Malting barley, according to
freights outside, $\$ 1.18$ to $\$ 1.20$, nominal;

## Peas. No. 2 Acc B $2,52.30$. <br> Buckwheat-According to freights out side, \$1.25, nominal.

 3 Corn.-American (track, Toronto) No. y yellow, new, $1.02 / 2$, December shipment, subject to embargo; immediate shipment.
Rye.-

No. 2, $\$ 1.36$ to $\$ 1.38$.
Four.-Manitoba first patents, in jute bags, $\$ 9.90$; second patents, in jute
bags, $\$ 9.40$; strong bakers' in jute bags, bags, s9.40; strong bakers, in jute bags
89.20 . Ontario, new, winter, according to sample, in bags, $\$ 7$ to $\$ 7.10$, track

Hay and Millfeed

Hay--Track, Toronto, No. 1, per ton, | $\$ 11.50$ |
| :--- |
| $\$ 1.50$ |

Straw.-Car lots, per ton, $\$ 9$ to $\$ 9.50$

Shorts.-Per ton, $\$ 37$. $\$ 38$ to $\$ 40$.
Middlings. - Per ton, Good
$\$ 2.80$.

Country Produce.
Butter.-Creamery, fresh-made pound squares, 48 c . to 49 c . per lb.; creamery
solids 44 c to 45 c . per 1 b .; dairy 40 c to 41 l . per lb.; separator dairy, 43c. to
44c. per lo.
Eggs.-New-laid eggs remained sta-
ionary on the tionary on the wholesales during the past
week, selling at 65 c . per dozen in cartons; cold, storage selects bringing 43c. per dozen; iresh, in case lots, 4 cc . per dozen
Cheese.-J une, 26c. per Ib. new, 26c. per lb.; new, twins, $261 / 2$ c. and $263 / 4$. per
Honey remained stationary in price with an active demand. Sixty-lb, tins $\$ 2.40$ to $\$ 3$ per dozen. Poultry.-All kinds of poultry ad-
vanced in price (retail) during the past week-turkeys especially. Live-weight prices: spring chickens, per lice, 14..",
spring ducks, per lb., 13c.; geese, per ib: spring ducks, per i.,
itc.; turkeys, young, per ib., 25 c. . fowl, it libs. and over, per lb., 14c.; fowe under
4 lbs., per 1b., 10 c .; dressed, $\$ 3.50$ to $\$ 4$.

Hides and Skins.
$\qquad$ hides, flat 25 c .; country hides, 22c.; country hides, green, 19c.; calf skins, per lb., 45 c . ; kip skins, per 1 lb ,
32 c. , sheep skins, city $\$ 2.50$ to $\$ 3.50$; sheep skins, country, $\$ 1.50$ to $\$ 3$; lamb
skins and pelts, $\$ 1.50$ to $\$ 2$, horse


lb. tallow, No. 1, 9c. to 10 c .; solids

## Wholosale Fruits and Vegetables.

Both California Navel and Florida week. The Navels keeping quite frm price at $\$ 3.25$ to $\$ 3.75$ per case, and the rloridas declining slightly; selling _. at
$\$ 2.75$ to $\$ 3.50$ per $\$ 2.75$ to $\$ 3.50$ per case.
Lemons declined in price; the Messinas selling ar $\$ 3.50$ to $\$ 4$ per case.
Apples have remained about stationary rade and species per bbl., according to Snows which came in selling at $\$ 1.50$
to $\$ 6$ per bbl. The British Columbia to $\$ 6$ per bbl. The British Columbia
boxed apples sell at $\$ 2.25$ to $\$ 2.05$ per
box. . first Florida strawberries for this
season came in on Thursday. last, whirit season came in on Thursday last, whit was quite early, as last. year they dir
not come in until Dec. 26. These were of fine quality and colo and were"quite ripe, and sold at $\$ 1$ per box.
graperruit has been an especially slow The Florida selling at $\$ 3.75$ to $\$ 4.25$ per case. Porto Rico and Cuban at $\$ 3$ to
$\$ 3.50$ per case; Jamaica, $\$ 2.75$ to $\$ 3$ per

## Pineapples of good quality

ceived and sold at $\$ 15$ per case. lentiful and advanced slightly in an so No. 1 's selling at 2t 25c. and 27 c . per 1b. and No. 2's at 2Jc. per lb.
Potatoes remained nearly stationary in
price. New Brunswick Des ing at $\$ 2.15$ to $\$ 2.25$ per bag; Quebecs 8. 1.90 per bag; Prince Edward Island 81.90 per bag; Prin.
Reds, 1.75 per bag.
Cabbage has been

Cabbage has been quite scarce, and
firm in price at $\$ 2.75$ to $\$ 3$ per bbl. Beets also are in the going-up class, Beets also are in the going-up cla
now selling at $\$ 1.50$ to $\$ 1.75$ per bag. Carrots, parsnips and turnips remained
stationary at $\$ 1.25, \$ 1.35$ to $\$ 1.50$, and
 Carance for celery made its first appearance for this season. It was of good quality, and sold at $\$ 7.50$ per case. The
Chedford vatiety selling at $\$ 4.59$ per case. prices; Americans ar
$\$ 3.50$ to $\$ 3.75$ per cwt., and Spanish $\$ 4.75$ to 85 per caso

## Chicago

Cattle--Beeves, $\$ 7$ to $\$ 11.75$; western steers, 87 to $\$ 10.25$; stockers and feeders,
$\$ 5$ to $\$ 8.10$; cows and heifers, $\$ 3.85$ to \$10.10; calves, $\$ 8.50$ to $\$ 12$.
4

THE FARMER'S ADVOCATE:

## THE ROYAL BANK OF CANADA

\section*{Capital Authorized - - $\$ 25,000,000$} | Capital Paid Up - - :- |
| :--- |
| Reserve Funds |
| $11,785,036,000$ | HEAD OFFICE : MONTREAL Branches throughout every Province

of the Dominion of Canada

## Accounts of Farme Invited

Sale Notes Collected
Savings Department at all Branches
$\$ 9.55$ to $\$ 10.20$; heavy, $\$ 9.65$ to $\$ 10.25$ ough, $\$ 9.65$ to $\$ 9.80$; pigs, $\$ 7.35$ to $\$ 9.15$.
Sheep.-Lambs, native, $\$ 11$ to $\$ 13.35$.

## Montreal

Receipts of live stock on the local mar ket have been fairly liberal of late, and
the class of animals offered shows some mprovement, owing, no doubt, to the near approach of Christmas. Butchers were buying more freely and were prepared to pay somewhat higher prices.
Some choice steers sold at around 9c. per lb. to possibly a fraction more, while good
butchers' stock brought $81 / 2 \mathrm{c}$. to $83 / 4 \mathrm{c}$., with medium at 6 . to 8 ., and common a $61 / 4 \mathrm{c}$. to $61 / 2 \mathrm{c}$. per lb . Cows sold at $51 / 4 \mathrm{c}$.
to 7 c ., and bulls at $1 / 4 \mathrm{c}$. better than this price. The market for small meats was very firm and there was a good demand were made at $113 / 4 \mathrm{c}$. to $121 / 2 \mathrm{c}$. per lb ., while sheep ranged from $73 / 4 \mathrm{c}$. to $81 / 2 \mathrm{c}$ ed stock brought 9c. to 11c. per lb. Grass-fed stock sold at $71 / 2 \mathrm{c}$. and down to 5c. per lb. Hogs were in good de mand and prices advanced about $1 / 4 \mathrm{c}$. per 1 lb. , sales of choice lots being made $121 / 4$ c. to $121 / 2 \mathrm{c}$. per 1 b ., weighed off cars.
Horses. -Very little took place. in the market for horses, almost the only demand being from lumbermen. The market howed no change in price, quotations o 1,700 lbs., $\$ 200$ to $\$ 250$ each; light draft horses, weighing 1,400 to 1,500 lbs. $\$ 150$ to $\$ 200$ each; small horses, $\$ 100$ to 125 each; culls, $\$ 50$ to $\$ 75$ each, and
choice saddle and carriage horses, $\$ 200$ to $\$ 250$ each.
Poultry.-With the approach of Christmas, the price of poultry continued to 30 c . pef 1 b , while ordinary were quoted at 30 c . per 1 b ., while ordinary stock ranged
from 26 c . to 28 c . Choice chickens brought up to 23c., and ordinary stock rom 17c. to 19 c . Fowl ranged from 14 c 18 c . to 19 c . ducks, 19 c to 22 c . Geese 18c. to 19 c .; ducks, 19 c . to 22 c.
Dressed Hogs.-Colder weather brought and for dressed tock was offered, and the price for these anged rom $13 / 4$. fows sold at $141 / 4 \mathrm{C}$. or heavies, while sows sold at $141 / 2$ c. to
15 c . per lb . Abattoir-dressed, freshPotatoes. -The market seems to be steadying down to a more definite range
Green Mountains were quoted at $\$ 1.75$ per bag of 90 lbs , ex-store, while Quebecs nany dealers claim to be receiving very much higher prices. Alberta stock was
quoted at $\$ 1.70$. The situation in the market for potatoes continued very un Maple Syrup and Honey.-There was a maple syrup. Prices showed no change being for white extracted and brown clove while buckwheat honey was 10 c . Maple syrup, in $8-\mathrm{lb}$. tins, was 95 c . $10-\mathrm{lb}$. tins,
$\$ 1.10$, and 13 - lb tins, $\$ 125$ to $\$ 1.50$ Eggs.-Some declare that the price of apply to some grades it apparently does not apply to others. New-laid eggs were quoted around 65 c . per dozen, with some
asking higher. Fresh eggs were 60 c

No. 1 selected, 44c.; No. 1 candled, 40 c
and No. 2 candled, 38 c . Butter.-The market for butter con-
tinued very was quoted at 43 c . to $431 / 2 \mathrm{c}$. per lb. Fall creamery, fine, was $421 / 2 \mathrm{c}$. to $42 \mathrm{c} / \mathrm{c}$ c
Winter creamery, 42 c . to $421 / 2 \mathrm{c}$.; undergrades ranged from around 40 c . to $411 / 2 \mathrm{c}$. Cheese.-Prices were firmly maintained at $251 / 4 \mathrm{c}$. to $251 / 2 \mathrm{c}$. for finest Western
colored $; 25 \mathrm{c}$ to $251 / 8 \mathrm{c}$. for Western white $243 / 8 \mathrm{c}$. to $241 / 2 \mathrm{c}$. for fine Eastern colored, and 24 c . to $241 / 4 \mathrm{c}$. for white.
were quoted at $691 / 2 \mathrm{c}$. per bushel, ex store; No. 2 were $65 \frac{1}{2} \mathrm{c}$.; No. $3,631 / 2 \mathrm{c}$,
and No. 2 feed were $621 / 2 \mathrm{c}$. $\$ 1.05$ per bushel, while rejected and feed barley was $\$ 1$ per bushel, ex-store. Flour.-The price of wheat continued to decline, and, as a consequence, millers were compelled to lower their prices. The
decline of the week was 10 c. per barrel decline of the week was 10c. per barrel,
making a total of $\$ 1$ per barrel in the last couple of weeks. Manitoba first patents
were quoted at $\$ 9.60$; seconds were $\$ 9.10$ were quoted at $\$ 9.60$; seconds were $\$ 9.10$,
and strong bakers' $\$ 8.90$ per barrel, in bags. Winter wheat also declined, being with 90 per cent. Ontario patents quoted at $\$ 8.60$ to $\$ 8.90$ per barrel, in wood, and $\$ 4.10$ to $\$ 4.25$ per bag.
Millfeed.-The inarket was very firm at the recent advance. Bran was $\$ 32$
shorts, $\$ 35$; middlings, $\$ 38$ to $\$ 40$ mixe mouille, $\$ 42$, and pure grain mouille, $\$ 4.5$ to $\$ 48$ per ton, including bags.
$\$ 13$ per ton for were still unchanged at $\$ 13$ per ton for No. 2 hay; $\$ 11.50$ for No. 3
and $\$ 10.50$ for clover mixed, carloads,

Hides.-The only change last week was the further rise of 15 c . in lamb skins, these
being now $\$ 3.40$ each. Horse hides $\$ 9$ being now $\$ 3.40$ each. Horse hides $\$ 9$ calf skins, 38 c . to 36 c . : tallow, 3c. to 5 c per 1 b .
dered.

## Buffalo.

Cattle.-Prices ruled higher by a big much as forty cents on cattle the pas week. Offerings were only moderate, an meet the full demands. Canadian ru last week was not as large as usual and Canadian offerings gencraily sold high, best natives up to $\$ 10.75$. Best hand weight butchering steers showed a genera
range of from $\$ 8.75$ to $\$ 9.60$, a few odd bunches sellitf up to ten cents. In the
fat heifer line, best handy butchering grades ranged up to $\$ 7.75$, with heav fancy kinds selling up to $\$ 8.50$ to $\$ 8.75$
some fancy handys reaching above eight some fancy handys reaching above eigh
cents. In fat cows best offered ranged from $\$ 7$ to $\$ 7.50$, odd lots of fancy ones up to eight cents. A medium kind of steers
and medium classes of fat cows sold to better advantage than for several weeks demand at the present time being for the better kinds, and the little, stocker stuff went mostly for slaughter, at strong
prices compared with the previous week Bulls generally sold higher, best ranging ip to $\$ 7.25$ to $\$ 7.60$. All classes of dairy
cows sold at good, strong values, the very best kinds ranging from $\$ 2$ to $\$ 3$ per head was full steady and a good, fast trade was especially on the fat shipping and handy steers, as well as on the better kinds o
cow and heifer stuff. Receipts figure 5,500 head this week, as against 5,125 for the previous week, and 5,350 for the
corresponding week last year. Quota-

Shipping Steers.-Choice to prime na-
tives $\$ 975$ to $\$ 10.75$; fair to good, $\$ 8.50$ to $\$ 9$; plain, $\$ 7.75$ to $\$ 8.25$; very coarse Canadians, $\$ 9.75$ to $\$ 10.35$; plain to good
$\$ 8.25$ to $\$ 8.60$; common and plain, $\$ 7.75$ Butchering Steers.-Choice heavy, $\$ 9$
to $\$ 9.75$; fair to good, $\$ 8.50$ to $\$ 8.75$; hest handy, $\$ 8.15$ to $\$ 9.30$; fair to good
$\$ 7.75$ to $\$ 8.50 ;$ light and common, $\$ 6.75$ to
$\$ 7.25 ;$ yearlings, prime, $\$ 9.50$ to $\$ 10.25$
$\qquad$ $\$ 8.25$ to $\$ 8.75$; best butchering heifers,
87.50 to $\$ 7.75$; fair butchering heifers 6.50 to $\$ 7.25$; light and common, $\$ 5.2$
o $\$ 6.25$; best heavy fat cows, $\$ 6.75$ t
medium to fair, $\$ 5$ to $\$ 5.50$; cutters, $\$ 4.35$ Bulls.- Best heavy, $\$ 6.75$ to $\$ 7$; good
butchering, $\$ 6.25$ to $\$ 6.50$. $\$ 7$ Stockers and Feeders.-Best feeders, $\$ 7$ to $\$ 7.25$; common to fair, $\$ 5.25$ to
$\$ 5.60$; best stockers, $\$ 6.50$ to $\$ 7$; common to good, $\$ 5$ to $\$ 5.50$
Milchers and Springers.-Good to best in small lots, $\$ 80$ to $\$ 100$; in carloads, $\$ 70$ Hogs.-Prices were on the jump last fifteen-cent advance was noted on the bulk of the crop, when several decks of good weight hogs sold up to $\$ 10.35$ and $\$ 10.40$, and on yorkers and light mixed Tuesday the general 'run of sol $\$ 10.25$. made at $\$ 10.40$, with one deck of prime heavies reaching \$10.60; Wednesday the general range in prices was from $\$ 10.35$ to $\$ 10.50$; Thursday's market was strong, and Friday the bulk sold at $\$ 10.50$, with $\$ 10.75$. Pigs and lights brought anywhere from $\$ 9$ to $\$ 9.65$, as to weight and quality, roughs ranged from $\$ 9$ to $\$ 9.40$ ceipts were 37,800 head, being against 64,600 head for the week Sheep and Lambs.-All former records
for the Buffalo yards were smashed last or the Buffalo yards were smashed last
week, when on Friday top lambs sold as high as $\$ 13.75$, cull lambs reached as as high $\$ 13$, yearling wethers were quoted week above $\$ 11.75$, and, while no wether brought above $\$ 9.75$, had the right kind been on Friday's market they would have recerd breaking pri. Ewes also brought recerd breaking prices, best in this line
fetching around $\$ 9$. Receipts last week were 17,700 head, as compared with 16,040 head for the week before, and 15,300 head Calves.-Prices last week. advance from day to day Thowed an tarted with tops selling from $\$ 13.50$ to
$\$ 14$, and before the week was out or Friday, best lots were selling as high as
$\$ 15$, and culls reached the $\$ 18$ Grassers were in light supply, and they the run totaled 2,100 head, as arainst 2,282 head for the week previous, and
1,950 head for the same week a year ago.

## Gossip

Business as Usual at Elmhurst.
Of the hundreds of stockmen throughout Eastern Canada who use thes columns annually to dispose of their surplus stock, none are better or more of Elmhurst Farm, tario. For almost fifteen years Berkshire swine were the only speciality at Elmhorns have been gradually added, the herd to-day, although still small, compares favorably in so far as quality and he larger and more noted herds of Province. The breeding females are ported cow Eliza, which is still in imherd with a dozen or more of her own these a couple Lady Ythan Estelle make up the entire lot of breeding Vanderlip was fortunate in this herd Mr good breeding bull Royal Warrant (imp.) His dam, a straight-bred Rosebud, was
got by the $\$ 3,700$ sire. Victor Royal haps sired more high-priced bulls than
any other sire in Scotland Sootcl sales since 1910, almost a score of thousand and six thousand bive hundred dollars, the top price being paid fo
Count Crystal, which was the highest popular breeding is hard to find on this
In Berkshires, Mr. Vanderlip's offerings are more varied. As usual there are
almost one hundred head from which to
nake a selection hand still number over tweod sows on

Suddon Torredor (imp.) is still the senior
sire in service sire in , service, and he has some ex-
ceptionally fine litters in the pens at
present. From these, present. From these, any orders, large
or smali, can be filled, althourt the number of young sows that are
already bred is somewhat there are a number of young boars that are fit for service and these should be going out soon. Next in service and the
sire used on most of the younger the young, imported sire, Elmhurst out exception the get of which are, with show material that we have tot of pleasure of seeing for some time; and while this seems to be a year of highe; and in most lines, Mr. Vanderlip informed us that Elmhurst quality can be purchased
from him this year at considerably par, both in Berkshires and Shorthorno Let him hear from you. Everything sent out with satisfaction guaranteed or money refunded. In Berkshires he al

## Both East and West.

The proprietor of the herd mentioned the Farmer's Advocate. Aberdeen-Angus cattle Grange" herd, Clarksburg, Ont., Grape been sold during the past year and from near Owen The Farmer's Advocate, Compton, Que. on the one side to are several young bulls yet, from 10 to
15 months old, fit to head good herds raise first-class beef if mated with grad

Winter Tours in Florida, Louisiana,
The Canadian Paçific Railway offers particularly good service to Detroit, wher Cincinatti and Atlanta Gar Florida, via Florida, is reached second ', Jacksonville leaving Detroit. The Canadian Pacific Michigan Central Route will be found
the ideal line to Chicago, where direct connection is made for the Souther morning after leaving is reached second Dining, Parlor and Sleeping Car servic between Toronto, Detroit and Chicago is up-to-date in every particular. Connect and dining cars. Those contr sleeping trip of any nature will receive full infor mation from any Canadian Pacific Agent Agent, Toronto. (Advt.)

Some Choice Breeding
We often hear it said circles that the sire is half the herd and Dr. A. A. Farewell, Oshawa, Ontario Holstein herds always goes one better and says "if you get a poor one he is all the the farm with the Doctor, recently representative of this paper found that
the breeding cows in the Farewell herd too, were well above the standard in bot individuality and breeding. But as space is limited a word ot two regarding the interest. The senior sire King Segis
Walker was Dr. Farewell's first choice of an ideal sire. He has size and scale combined with as much dairy quality
as one could wish to find. His sire King as one could wish to find. His sire King
Walker has almost as much thirty-pound breeding as any sire the breed has known,
while his dam, Segis Tehee Beets, is while his dam, Segis Tehee Beets, is a
$31.24-\mathrm{lb}$. daughter of the great King Segis. The first daughter of King Segi lbs. of butter in 7 days and 46.8 lbs. in 1 days. Four more are just now fresh and others will be freshening soon. Next in service is the young sire, Pontiac Sir Artis Canada and Brooklands Korndyke Wayne, a $30.80-1 \mathrm{~b}$. daughter of Manor Pontiac Sir Korndyke Wayne is also a show bull of merit and as he is being used Farewell may reasonably expect results that should be more than pleasing. There are a few young bull calves of this breed-
ing advertised at present, look up the advertisement and wresite at once. Address all correspondence to A.A. Farewelf,
Oshawa, Ont. and mention "The


The Yule Log. When the Yule-log burns upon the hearth A fire should kindle in each soul To gladden all the coming year;
A flame to brighten heart and home, And shine as well for other eyes, Fed by good deeds, which still glow on
When dim and cold the Yule-log lies.
No life so poor but it may know A spark of this divinest fire
No life so beautiful and rich But still, flame-like, it may aspire Thut kindle Yule-logs far and wide To burn on every happy hearth,
Fit symbols of the faith and love, That purify and bless, the earth! Louisa M. Alcott.

AmongtheBooks

## A Great Canadian Drama.

BY ALFRED BUCKLEY, M.A.
"The Witch of Endor,", by Robert
Norwood (McClelland , Coodchild Norwood (McClelland \& Goodchild, Toronto, \$1.25, is a notable achieve-
ment, judged by any standard. It is a poetic drama of great power and beauty,
by far the most significant appearance in by far the most significant appearance in
this medium since Stephen Phillips's "Paolo and Francesca" and worthy, in every respect, to stand by the side of that exquisite piece of literature. It is a
drama of ideas, rather than of situations. "The historical decoration," wrote Brown," "ing in his introduction to "Sordello," than a background requires; and my stress lay on the incidents in the development of a soul; little else is worthy of study. 1, at least, always, thought so; others may
one day think so." So thinks our author It is a drama of ideas. The saving. cleansing, redeeming power of human love may be regarded as its motive, together with a passionate plea for the authority of present inspiration as the guide of iife,
and the right and duty of each age to exand the right and duty of each age to ex-
press itself according to its own spiritual needs in the face of the whole firmament of prophets and sages.
The tortured
The tortured spirit of Saul, battling with the dictates of an inward and an out
ward authority, finds final expression:
"Oh, I think that we
Call Evil by the Name Ineffable
And worship One Who never was man's Can He be God Who circumscribes the With jots and tittles of an ancient Law, And damns us for departing from the That voiced the vision of some prophetI will not bow to throned authority Or turbaned heads whose gaze is in the Like Lot's $\begin{aligned} & \text { past, } \\ & \text { wife! } \\ & \text { God is in the Now and }\end{aligned}$ And on the faith of Now and Here I

And the priestess of Ashtoreth, whose love for Saul is her only and sufficient re-
ligion, with her last words defies "the gods of darkness and of hate"
"You thrones and crowns of everlastingYou high above the multitude of stars,
Immovable, hard and unchanging gods! Again you laugh and nod upon our pain And stare down gulfs perpetual of blue,
Divinely lifted, deathlessly remote! No more shall you hear aught of stricken I go upon my way, supreme in love
And answer back to your ind ifference And answer back to your indifference,
Eternal calling of my heart for Sau!!"

It is only in the love of Loruhamah that Saul can catch any glimpse of the love
Divine: Your love restores my soul; the shadows Now is the everlasting love of God By this I know that Thou, the Infinite Hast never faltered in Thy care for me; That Thou Who art above what Thou The creature crawling for a space on For every tear and pang of infinite woe Hast set fulfilment of unending bliss, When sorrow fails and sin itself becomes Transtigured, like a scar upon the brow Returning, after years of fighting, home
Two years ago an article apeared in The Canadian Magazine", entitled
Waiting for a Dramatist," and the writer expressed the conviction that Canadian authors can now secure a hearing in
their own land without going abroad and sending their work back with the stamp of foreign approval upon it. Is this really
so? If it were true it would be good. Meanwhile I find this paragraph in an article: The Theatre in Canada,"" in the
volume entitled "C vinces:" "Canadians have been writing in the dramatic form for years. Perthaps Charles Mair began it in 1880 with "Tecumseh," a drama, duly heroical and embalmed for our inspection in printer's
ink. Others who have essayed the in possible task include J. Mackenzie.
Now, in that paragraph there is not an
atom of intelligent sympathy with Canaatom of intelligent sympathy with Cana-
dian dramatists. dian dramatists. Charles Mair's noble
drama is " "embalmed (whatever that may mean) One wonders if the writer has ever tried to disembalm it and read it. "Others have essayed the impossible task. Why must Canadian writers be told by their own
historians that drama is impossible to them? If this had been sail in Fleet Streetethe dismemberment of the Empire would have been threatened.
Meanwhile it is good to hear that Canadian authors can secure a hearing in their
own country. But even this writer takes it for granted that a Canadian dramatist must in some way deal with the geography of Canada. Why?-in heaven's name? Was Shakespeare always content to deal
with English subjects? Are there subjects of universal interest that have subjects or universal national boundaries, and must a writer be denied the name of his country because his field of explora-
tion is the hean heart? It think "The Witch of Endor" is a great poetic drama, judged by any
standard, and that Canada is no longer "waiting for a dramatist." The divorce between literature and the drama was almost complete when stephen
Phillips produced his "Paolo and FranCesca," if you read the volume called "Chief Contemporary Dramatists," which contains plays by such writers as
Wilde, Pinero, Jones, Fitch, Galsworthy, Wilde, Pinero, Jones, Fitch, Galsworthy,
Barker, Yeats, Moody, Thomas, Sudermann, Brieux, Maeterlinck, Hervieu, Strindberg and Tchekhov, you will scarcely find a paragraph that moves and
charms because of its literary power and beauty. Phillips saw this divorce with infinite regret and conceived the ambition
of reviving poetic drama not on Shake spearean lines of multiplicity of character and complexity of plot, but on certain
broad lines of development governed by broad lines of development governed by
an artistic economy more in keeping with an artistice economy More in seek for unity of
modern demands. "I
effect." he said. "where the Elizabethans effect," he said, "where the Elizabethans
sought for multiplicity. They tried to get the whole variegated texture of life
into their pictures My eftort is into their pictures. My effort is to
eliminate everything except the essentials of character, action, and passion;
strive after compression, not expansion,
after surface calm even strive anter compression, quietude with the
after surface calm, even quil
glow of passion beneath it."

Phillips believed that the present inwas a tragedy to literature. He was aware that such writers as Galsworthy the problem of real life masteruly with him, could not be neglected except at the highest cost to literature. It is poetic vorld and sees at a glance the glory of the world and trembles and agonizes most test
the vision fade. At its hivhest manifest tion it is a splendid effort to express in expressible beauty. It must stand on the summit of human speech. When Landor says that while sctupture and painting and everything around it and about it," we know that he is not speaking the truth. but we know that there is an emotional delight in the soul of the man that is far
finer than any exact description of finer than any exact description of
phenomena can be; we get an evaluation of poetry and we do not agree that it can be lightly dispensed with as the medium of expression of all that is worth most in
human experience. "God has a few of us whom He whispers in the ear
I find Robert Norwood in the true succession of Phillips. There are passages
in "The Witch of Endor" that move with the footfall of the immortals. There are the sacred fire and the illuminating and beant cry that wirl have music and beauty for virility and imaginative power, and the tenderness, that belong to and are inseparable from impassioned strength.
There has been nothing like it before in There has been nothing like it before is Canadian literature.
I ventured to say these things to a friend and met with demur, and I said, cause the poem is not good but because it was born yesterday. But many children were born yesterday with the miracles of fingers and breath and wondering eyes all be born a hundred yearis aro a a thousand years ago to be any good? Why should not the lampada vitue burn still with all the accumulated riches of all the best life of man to draw upon? Does not a new book
sometimes, by
its awake the suspicion that we may be living in a new golden age without knowing it? You must say that Milton's 'L'Allegro' and 'Il Penseroso' are great achieve-
ments though you know they are swamped with pedartic classicism that nee score of men in the British Empire could read them without a classical dictionary in his hand, but you may not say that the poem that was born yesterday
thing of exquisite poetic form,
"Don't be afraid," said poor Burns, after I am dead.
The story of "The Witch of Endor"
cannot do more than suggest in this re-
view. Whether it is true to history I do may make his own history so long as he Wives us people that live in his pages. asses the oracle of Ashtoreth for worde to ask There he met the priestess to whose charm and beauty he succumbed. She followed She is Benjamin, garbed as a gleaner. soul of her a vow to seduce and ruin the for Saul, and, in the name of her love defies priest and gods and becomes one of the noblest women in literature.
Mr. Norwood must be permitted to
justify the estimate of his work that is here offered. His medium is poetry, finely
wrought, so that words are treated wrought, so that words are treated as it
they were jewels. If poetry is rapture to the reader, why, then, the
speech of these lovers will be condemned speech of these lovers will be condemned.
"If any man," says Coleridge, "expect from my poems the same easiness of style
which he admires in a drinking song, for which he admires in a drinking song, for
him I have not writen. Intelligibilia
non intellectum adfero."

Here is a fraction of a dialogue that may be permitted to speak for itself SaulWhy all this fear? afraid. oruhamah-
When soul meets soul there is not any It is the morning of the worifd; the of all the woodland gods blows on the Brings up the flowers and commands Shakes myriad raindrops from the leafy boughs,
And sends the thousand lances of the Against ${ }^{\text {sun }}$ the shadows. . . Joy is And love is everywhere!
Saul-
When soul meets soul Beyond the barriers of fate and finds
Fulfiment in the certainty of love, Laughs at all shadows, knows no pres ent fear:

Loruhamah-
When you are crowned will you forget Who met you on the temple stair and Who met yo
You ere our voices mingled into speech? Saul-
Then was I crowned, who did not know Makes man a love king

## Coruhamah-

Upon the temple tower
I watched the stars with my astrologers, When, word was brought to me: "Saul,
Stands waiting at the doors of Adel No sudden sign was in the Zodiac; Orion and the tangled 'Pleiades
Locked up their oracles; nathless I Love stood without the gate, and so I "Let Saul,, the son of Kish, ascend to Saul-
Breathless, I tarried for the messenger;
Then all unheeding him I crossed the I found the stair and saw you like a star Within the shadow of the golden dome! Loruhamah-
I said: "Who are you?"
I: "One waked from sleep!"
Loruhamah -
And I: "Where have you been these
And I: "Lost as in dream till now.

## oruhamah-

And then the night
her white arms about us and we kissed.
When Loruhamah refuses to destroy oble passage is appointed to her:

My breast is open to your thirsty sword! oferred

Until with an eternal drunkenness
rou drop down wild!y, like an errant
Lost from its orbit, into gulfs of night

His body I may have but not his soul-
His soul that held me that first night we In Askelon-the soul of Saul that holds Me steadfast to the dreams that we Somewhere beyond the boundaries of When love has conquered the inditference
Of all the godsen! Destroy his soul
And keep his body-? Pour the wine Shatter the harp and keep the soundShatter the harp and keep the sound-
less strings
Better this flesh were shredded to the
These bones, torn out, to which ${ }^{\text { }}$ great These eyes torn out, to which* great
And all my beauty sang,

Now by the womanhood that you de1 will not do this thing-not for the gods Who shame their high estate with use And though you lead Saul to the gates of And hurl him to the lowest pit thereof My love will follow after him; my years
Quench the last fire that burns to Quench the last fire that burns to My cry assail the
My cry assail the doors, of heaven until There are some beautiful lyrics that it would be a pleasure to quote, but my
space is already exceeded. "The Witch space is already exceeded. "The Witch
of Endor" should have a wide circulaof endor shound have a wide crircula-
tion all over Canada during the Christmas season, end if the theatre can spare its "September Morns" and give us some experience of noble, poetic drama that is a
real "criticism of life" and a beneficent real "criticism of life" and a beneficent
cultural influence, the play should be seen on the Canadian stage in the immediate future with all the auxiliaries that the
best art can furnish. best art can furnish.

The Women's Institute Convention at Toronto.

## (Continued.)

(We regret that an accident in receiving
the copy prevented the printing of
this in Dec. 7 th issue.this in Dec. 7 th issue.-Ed.I To-day's report begins with the pro-
ceedings on the morning of Nov. 22 nd, ceedings on the morning of Nov. 22 nd,
Mrs. Burns, of Caledonia, presiding. Tre. first item on the programmee was a
discussion on the work in various discussion on the work in various localities. The York County report was read by
Miss Margaret Scott. It told of very exMiss Margaret Scott. It told of very ex-
tensive patriotic work, including 2 Field

## THE FARMER'S ADVOCATE.

the house surgeon, who was attending these cases, was also engaged in pathological work in the dissecting room and passed from that room into the lying-in
chamber, and the only precaution taken was just the ordinary method of washing the hands. One of these doctors got his hand cut while performing a post mortem and became seriously ill with chills and
fever, symptoms so closely allied to the ever, symptoms so closely allied to the symptoms, that the doctor was impressed
chamber, by this and drew the attention of his colleagues to the fact. And this young
doctor insisted that every doctor should doctor insisted that every doctor should
not only wash his hands, but scrub them not ongy wash with hot water and plenty of soap, and hold them for some few minutes in a solution of chloride of lime before he
was permitted to come in contact with the was permitted to come in contact with the
patients. The result of that was that patients. The result of that was that
within three months the mortality in the within three months the mortality in the
lying-in hospital was cut in two, and in another three months it was cut in two a again, and in less than a year's time the mortality, that was so appalling in that hospital, was reduced to a lower percentage than that in private practice throughout the whole of This
This indisputable evidence so impressed disease was almostabsolutely preventable, and he became so worked up with his theory that his nights became restless and sleepless, and he eventually died as a raving maniac in the asylum at Vienna. Practically nothing more was done along
that line until a young physicia that line until a young physician in a
small town on the Rhine interested him. self, four years afterwards, in examining the blood from animals and human beings in health and disease. He examined this blood under a microscope, and after making a number of examinations, he dis-
covered that in the blood taken from animals suffering from anthrax, there were little, rod-like bodies formed that did not appear in the blood taken from healthy animals. He persevered with his search every time, and he was contily the case these little rod-like bodies were responsible in a meásure for the disease.
He presented these facts to one of the medical institutes in a paper, and it created a certain amount of interest, but it was passed over until one of his suc-
cessors, Dr. Devan cessors, Dr. Devan, made a step in ad-
vance of the work that had been conducted by Follinger; he inoculated healthy ani mals with this blood that contained the rod-like bodies, with the result that all
developed anthrax, and this developed anthrax, and this was pre-
sented as an indisputable evidence sented as an indisputable evidence. This
work was followed up by Dr. Code and work was followed up by Dr. Code and
brought to perfection by Pasteur, to
whom the civilized world


[^1]more than to any mid up to the present time, for he has lived possible to conduct the principles of health it
along scientific lines. a.ong scientific lines.
In 1866 Lord Lister presented surgical world the use of antiseptics in surgery-the means of saving more lives than those lost in all the battles of the 19th century. Previously every second
case of abdominal surgery proved case of abdominal surgery proved fatal
from blood-poisoning; to-day the most frequent operation is to-day the most surgeon after surgeon in America has records of 300 or more cases without has bad symptom. Lis. The only principle
given by Lord Lister which has been for it has been found pray in the room blood-poisoning and others are not germ of in the air, but conveyed from one floting to another or through food or drink. person Antiseptic surgery simply means rigid cleanliness, which can do more to stop.
the spread of communicable all other means put together. Carlyle said that only on
of every 5,000 thinks. The person out attempting to administer the public health had come to the conclusion that that was a very conservative estimate. It is only
within the last 10 years practicall within the last 10 years practically that have realized that the transmission of communicable diseases of all kinds is practically along the same lines as the transmissibility of surgical infection, and the prevention of the one will prevent for other. Surgeons performing an operation are required not only to sterilize their hands, but they must wear sterilized clothes and use sterilized instruments. A
great many diseases are great many diseases are carried by the
hands, and in food utensils, extreme necessity of not using any eating or drinking utensil that has been used by any person suffering from a communicable disease, unlyess these utensils have been in a disease-ridden house " thing except the patient!'" restaurant, before a necessary in every obtained, to have a double sink, one for washing the dishes and another for sterilizing them. There are people who carry germs of communicable diseases for ing fremonths, or even years after suffer-carriers- and they are a source of danger to any community, if such precautions are not taken.
Hanging a s
acid in a sick-ret saturated with carbolic because sick-room has been abandoned, disease through the air. The contracting it can be transmitted in that way is to and allow him 2 or 3 feet of a patient towards you. If you want a demonstration stand in front of a mirror and coug or sneeze, then note the result. A child could go through a-ward of diseased patients in safety if he were not allowed
close to a patient nor to touch anything inside the ward.
"I would like to impress upon you," said the speaker, "the importance of cleansing the hands thoroughly." (He manger of carrying disease. Ordinary washing does not ster ilize hands or utensils and both should be sterilized. The Pharisees, the strictest sect among the
Jews. were very particular about not eatJews. were very particular about not eat-
ing with unwashed hands. When the great plagues devasted Europe, Asia and
Northern Africa, a few years before Christ, they were practically immune.

Afternoon Session.
During the after noon session Mrs. W. Buchanan, Ravenna, presided. In open-
ing she urged the speakers to speak louder ing she urged the speakers to speak louder
so that no word should be lost. After touching upon the good work the women are doing she came to the suffrage ques-
tion. If the women can do so much while "sprawling under the fence" what could they not do if they were on top? In Grey County this fall 800 women weeks ago all the women in her neighborhood had helped to gather in the roots. She thought this was a good showing in
patriotic work, a discussion on which she patriotic work, a discussion on which she
now introduced. Miss Lindsay told of the work done in the Caledonia Branch, where at the very
beginning of the war W. I. forces were organized for active work. On the first
canvassing day $\$ 1,300$ were handed in Canvassing day $\$ 1,300$ were handed in.
Tre Clarksburg Branch, represented by
Mrons, told of the knitting of 2,649

Decenole 21, 1916
pairs of socks, sent through the Red Cross,
Meside a numberan nent next spoke on Count Conventions, telling about the convention Grey, which was held last year, very successfully, at Kimberley

Medical School Inspection.
This subject was dealt with by Dr . McKenzie-Smith, Gravenhurst, and Miss Hotson, Parkhill. As Miss Hotson's address was from the London Convention, it is here omitted
Dr. McKenzie-Smith told of finding 00 children who needed inspection. Ap plication was made to Mr May. With Victorian nurse she examined the children with the result that 300 were found have pernicious teeth, 130 with bad throats, many with adenoids and some with defective hearing. Dr. Patterson are of the teeth, and inspected the sanitary arrangements and lighting.
A meeting was held in the town hall but was not as well attended as it should have been. Then inspection was ar anged Institute, and finally a clinic wa held, with the very best specialist who could be found between Gravenhurst and Toronto, Dr. Ardagh, of Orillia.
In getting ready for the clinic 1,000 In getting reade for the chic 1,000 laced in pillow-slips. The speater' louse, The Manse, was given for the work, and 15 beds were prepared. At eight clock in the morning operations begun and the children were not allowed to go home until after 7 at night. Four days parents whose children were to be oper ated on, telling them to give each child on Sunday night 1 grain of calomel, and on Monday morning a heaping teaspoon of salts, and no food on Tuesday wateverleft until afternoon were given a bit of toast and cup of tea. Two doctors were obtained to give the anaesthetics, at $\$ 10$ a day, and the specialist brought his own nurse $\$ 4$. In all 22 children were oper ated on very successfully. The first day 17 sheets were used and 54 towels. The patients were charged $\$ 5$ for each
operation, except where they could not operation, except where they could not Results were splendid. A few days afterwards one boy was heard to say in the swimming pool: "The day of miracles
is not over-Billy Burton can talk now." is not over-Billy Burton can talk now.
The speaker thought Medical Inspection of Schools so fine a thing that the Women's Institutes should try to make it

## Address by Miss Watson

Miss Watson, of the Macdonald Institute at Guelph, brought word from that institution. The "loan collection" is women obtained help from it in preparing speeches for the Institute. The standing offer is, that if a sybject is sent, an effort will be made to give assistance. The inquiries made so far had been on household conveniences, clubs and social service (this bringing most enquiries of all), gardening, agriculto these, 1,849 folders and 44 books had been sent out during the year. biggest thing done during the year was to prove that Macdonald Institute could carry its work out into the country by means of its short courses. Teachers, with ing classes had been sent out wherever class of 24 girls had applied for the
courses, each of the girls to pay a $\$ 15$ feurses, each of the girls to pay a $\$ 15$
fee for the 3 -months instruction. Results had been very satisfactory, She knew of wedding refreshments of two sisters within 6 months after she took the course.
The offer of Macdonald Institute in these matters has been put into a calendar which will be sent to anyone who applies

Mrs. Dickson of Wetaskiwin
"Wetaskiwin," said Mrs. Dickson in
opening her address, "is an Indian name that means peaceful, and Wetaskiwin is a most peaceful, "place and a very happy ment reporter for the Convention 10 years ago, and could see the great increase the Institute has made since then. Mrs.

FHE FAKMER'S ADVOCATE.
Institute work in Alberta, with its diffi-
culties of long distances and blocks of
foreigners and Indians, with consequent foreigners and Indians, with consequent
isolation of many English-speaking women.
tion of " "manners," the Women's Institute could not stand more for the better manners of Canadian people. She concluded by passing on the Women's Institutes of Mr. Putnam, the the best women's work in the world.

At the conclusion of the afternoon session the 700 delegates were very
graciously received by Lady Hendrie at Government House.

Evening Session, Nov. 22nd. The evening session opened with Mrs. Graham, Brampton, in the chair. She the National Service Committee posed of the President and a representative from every national organization in Canada. With proceeds in part constationery had $W$.I., a leather wallet of dian soldier, and much appreciated extracts from their letters showed.
She had asked Mrs. Plumptre if she had any special announcement for the Convention. She said that when you send you mark them 'soldiers' comforts' the are forwarded to the field for the soldiers. A cable from England recently had asked particularly for Balaclava caps, cheese Be sure to and money to buy comforts syrup in pas jars.

Mrs. Murphy, Toronto, gave an in Berlin when the war broke out papers at that time represented the Belgians as monsters. From what she had seen of the Belgians from having been much among them, she knew these re ports were false

The thanks of Mr. W. K. George, of the Military Hospital Commission, were members who had contributed pickles preserves, etc., for the men. He begged they would continue sending these article the military hospitals.

Address by Col. Noel Marshall. Col. Marshall, Head of the Red Cross Eanada, spoke on a trip made lately the Institute for the work they have done or the soldiers an can discover the men, no Canadian soldier sick or wounded, has wanted for anything. The people of Canada have made this England he had visited 60 hospitals, and id not see a patient who was not having everything done for him that could be The Red Cross has established 700 local branches, with 3,000 auxiliary $\$ 2,200,000$ for the soldiers, has sent to England and France 150 motor ambulances, and shipped over 100,000 cases of supplies. Hospitals at home have been ooked after and French Red Cross Society. To Belgium $\$ 100,000$ has been sent; to Russia over $\$ 75,000$ in supplies, the same to Serbia, with $\$ 42,000$ in cash; to Montenegro,
$\$ 20,000$, and to the ambulance fund in Italy $\$ 10,000$
The Red Cross has also established in Cliveden, a hospital containing 900 beds,
and at Busby Park, one with 350 beds, At present a hospital at Ramsgate, to be called the "Princess Patricia," is being sides there is the I. O. D. E. Hospital with 25 beds, and one built by the Ontario Government at Orpington with 1,000 beds. That and the one at criveden are Other no best in the Brisis St. Dunstan's (for the blind), and the Massey-Harris Hospital for convalescent soldiers. The Red Cross has sent 170 nurses,
each of whom receives less than $\$ 5.00$ a each of whom receives less than $\$ .00 \mathrm{a}$
week. He hoped when the war is over what the Red Cross will be able to give each of these girls a bonus worth while. In his trip to the Old Country he had
been able to find out for himself that goods sent have not been either lost or TWICETHELIGHT
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soul"? If so, send to us for a copy of the brochure, "Music's Thos. A. Edison Inc., Dept.. 7649 Orange, N. J.
afoot by our foes. "It will take more
than a few yarns," said Mr. Marshrall, to
In London his first visit was to the Canadian Red Cross Headquarters in
Trafalgar Square, Coxspur St., in a building which was largely owned by Kaiser
William, but was taken over after the war began by the British Government.
Here Lady Drummond has a staff of nearly 400 women who do everything in
their power for the work, even to writing letters to the "mothers and best girls" of
the boys in the hospitals. One department is devoted to the prisoners of war,
to whom parcels are sent, a seven-shilling parcel every week. These men have to
be fed, and the Canadian people are feeding them, largely through the Red Cross The following extract, from Mr.
Marshall's address is so interesting that it is given almost in full: went to France. Some of you think going
to France is a simple thing. First of all to France is a simple thing. First of all
you have to be a military officer, and, as I was made one without performing any
active service for it, I put my uniform on and got a white ticket from the war office
and went down to Folkestone. You hand in your white ticket as you get in the
boat and you pass on, and there are about 700 men either going to the front for the
first time or men on leave returning. The first thing they do is hand you a liferidiculous sight to see 700 men going preservers on-if it were not for the knowlthe dock, about 100 yards on either side beside you, and a quarter of a mile ahead another one-three destroyers with one
passenger boat! Up to date, of all the millions of men that have gone over,
Germany has not yet sunk a boat with a single soldier on-except hospital ships.
One would have though we were pretty well protected, but about 300 or 400
yards on either side you see black things floating in the water, and they said they were the buoys that keep up the chains
that run 28 miles across the channel, and that is the chain that is supposed to have caught so many submarines. If buoy
No. 92 gets a bite it rings a bell in the
office on the shore, and they know there is something gone wrong, and if a submarine is there they catch it, and they have
caught more submarines than any of us have any idea of.
"Over our heads was floating what I thought was a Zeppelin but it was the
Silver Queen, an airship that has the power of seeing down in the water and can
tell if there is a submarine underneath So now you understand how it is that across the Channel and not lost any. men I noticed was about 100 motor ambulances at. Many of them came from Canada. per Canada College, Toronto, and they were kept in splendid condition and looked beautiful. I asked the Commissioner why
so many were standing there, and he said, "We have these ready because at
any time the hospital train is likely to
arrive, and they have to be ready arrive, and they have to be ready to rang and every man jumped in his motor
and was off at forty or fifty miles an hour.
The train was to arrive in a few moments with 1,744 wounded men on. Let me tell tered, covered with mud, wounded in all from one of them. (Applause.)
"I asked one young fellow who was so anything out of him, if I could help him, and asked me what was the latest news
from the front. 'What time did you get hurt? I, asked. 'At ten o'clock this
morning, he replied. 'Well, you ought
to know, the leter he said, 'we were giving them hades when
I left.' That is just the spirit I saw in all men were handled, and if any of you have hospital, you can make up your minds, whether in England or France. That is "We often hear people wondering if the
graves are being, cared for. I think the
the graveyard at with nearly
2,000 graves. Every one has a cross with
the man's name on, and quartershave flowers on that hadly three-
on within the last three or put ""Just a few words about the French. suffering that I went on to l'aris to see their hospitals there, and I am glad that I
did. I found in some of the hospitals, the mattresses were made up of chips, and
my heart bled for the wounded. Know ing we had plenty of supplies I arranged
with the French Government if they would send to London for 5,000 cases, a month
of Canadian Red Cross supplies, I would
take upon myself, representing the take upon myself, representing the Red
Cross Society, to see that they got them.
(Applause). I then cabled the Head Office (Applause). I then cabled the Head Office
in Canada and asked for their confirma-
tion, and they said, 'Anythe we will back up,' which made me feel
pretty happy. That was in June. from pretty happy. Ghat was in June; from
then we have given and distributed to
various French hospitals where there is not a British subject of any kind, 5,000
cases a month. I distributed $\$ 50,000$ cases a month. I distributed $\$ 50,000$
in cash to the various French Red Cross
Hospitals and charities, pressed with their need for better hospital accommodation, that I cabled to Canada
and asked if we could build a Canadian
Red Cross Hospital in France Red Cross Hospital in France, and last
month we let the contract for a Canadian
Red Cross Hospital to contain (Applause). And the best part is that we have the money to do it with.
"Let me say, while we have done all
this, we have not by any means finished our work. The men who have gone to the
front have got to stay there until the job is done, and you women at home have to
stay by your job, just as I have to stay by mine, and God helping me, I intend
to do it. The greatest inspiration those have received is the inspiration received
from you women of Canad taught men that you are willing to slave other than soldiers, would bother much
about. If they are called on for $\$ 10$ or about. If they are called on for $\$ 10$ or
$\$ 20$ or $\$ 30$ they will give it, and that is all
the bother they will take the bother they will take. So you women your village merchant or your husbands
and ask them to give up money, and on
behalf of the Red Cross Society, I say not one dollar of your money will be wilfully
wasted. If mistakes are made, they will be mistakes of the head and not of the

The Blind and Their Needs. Mr. Alex. Veits, of Digby, N. S.,
formerly Lance-Corporal of P. P. C. Leri, audience standing and giving three cheers and a tiger.
Nearly 500 soldiers, he said, have been blinded already in the war. Of these 125
have gone through St. Dunstan and about 100 are still there, among them 7 from
Canada, while 8 more are in the hospital waiting admission. Men who have been hospitals (to do massage work); some have basket-weaving, care of poultry and so on,
The men who graduate from the poultry classes are doing very well. St. Dunstan,
founded by Sir Arthur Pearson, who is himself blind, is a beautiful place. Men in Braille and type-writing. They are
also taught the art of diving, and become Already there are 22 blinded Canadians,
, them when they return to Canada. Mr. Swift, Librarian of the Free Library
for the Blind in Canada ed pictures of the work that the blind
can do and are doing. Any Women's Institute can secure him by paying the ex-
penses of himself and an assistant. Noth-
ing more is asked. He gave an interesting more is asked. He gave an interest-
ing lecture along with the pictures, tell-
ing about the famous Frenchman, Louis Braille, who made reading possible for
the blind, also many interesting details
connected with work for the blind in connected with work for the blind in
Canada. Pictures were shown of St.
Dunstan, and applause greeted one of Sir Arthur Pearson, "the greatest blind man
in the British world to-day." Dr. Margaret Patterson called the atMr. Swift has taken a course at the uni-

December 21, 1916
a. collection was taken up for the benefit of his work, and realized $\$ 50$. So closed, with the outstretched hand of
pve-love for the great human family love -love for the great human amily Central Division of Ontario Women's Institutes.

Ontario's Voice in Horticulture. (Concluded).
Vines and Their Uses.
Prof. Macoun in beginning this subject, pointeres the appearance of a poorly planned dwelling as vines. They climb by tendrils, as the grape; by disks as
in the Japanese ivy and Virginia Creeper; in the Japanese ivy and Virginia Creeper;
by prickles, as the rose; by adventitious by prickes, as the rose; by adventitious
roots, as the English ivy; and by leaves and twining stems as the
honeysuckle and bittersweet.
honeysuckle and bittersweet. The most popular vine is, perhaps,
the Virginia Creeper, which is particularly the Virginia Creeper, which is particularly
useful for verandas but not so good useful for verandas but not so good
for walls, as the disks do not attach strongly enough. A wild kind has been found to be the best climber. Ampelopsis quinquefolia hirsuta has downy leaves which color highly quires no attention until it reaches the eaves, when it may be cut off. The Japanese or Boston ivy, originally brought from Japan to Boston, deserves
second place. It is peculiar for its second place. It is peculiar for its
power to cling to wall surfaces, but is not hardy enough for the colder parts of Ontario.
English ivy is one of the hardiest of the evergreen vines. A fine specimen
is on the Village Inn at Grimsby. Clematis paniculata, which blooms in September in clusters of small, white,
sweet-scented flowers,
is perhaps the sweet-scented flowers, is perhaps the
best flowering vine: It grows quickly. best flowering vine, It grows quickly. A wild species, which also grows very
rapidly, is to be recommended for the verandah. The largest flowered Jackmanii is very beautiful but not easily
grown, as disease is likely to attack grown, as disease is likely to attack Thear the crown. English variety "hlet trumpet, yellow within, and 'PHall's Japanese" -are very fine, but are not entirely hardy as farnorth as Ottawa. The English variety should be cut from its supports
and laid down in winter. nit laid down in winter
is hardy, grows rapidly, and is little troubled by disease. It is useful for verandah or summer-house, or for covering fences. The berries are orange, but some of the vines produce only male flowers and have no berries. - Grape-vines give good effects, but, as a rule. need to be well sprayed.
The most beautiful climbers of all are the most beautiful climbers of all Dorothy Perkins, Hiawatha, American pillar, etc.
Wistarias are very beautiful in spring, and the trumpet vine is also very fine. matrimony vine, with scarlet fruit, good for rockeries and stone fences; down each fall; wild hop, very hardy and good in the coldest parts, Japanese
hop, very striking (sow seed early in spring, thin out, and pick off the seeds
as they form): Madeira vine, whose roots should be taken up in winter; and the annuals, sweet peas, canary runner, which have a glace for their flowers although the foliage is not very attractive. Flower Beds.
$\underset{\text { Marshall }}{\text { From }}$ an address given by bubiect, the Mr. gained of most use for farm homes were to see that the tallest varieties
stand in the center in height until the low border varieties at the edge are reached-alyssum, verbenas, dwarf blue ageratum, etc.,
a flower which he recommended very highly was Perilla Nancanancus.

Hardy Asters and Decorative Perennials.
subject was interesting paper on this of Meadowvale, followed by a series
of lantern views of flowers grown on her flower-farm.
6 to 8 weeks of fine fall weather yet

THE FARMER'S ADVOCATE.
2127
flowers in the border the gaod hardy
still be beautiul and early frost may
have no terrors have no terrors. The hiardy asters which mingle so so delightufully with purps,
the autumn tints, wo weld mold mully with the than fill the For the background of a border she
recommended recommended rudbeckias , of varying
heightsf for "happy growers," heleniums
hiterally literally the flower for the millions. Other varieties recommended were:
false star-wort; boltonia, with white false star-wort;
flowers;
giant
boltonia, with white
moonpenny howers; giant moonpenny, daisy;
autumn monkshood-"Fisher's," with
its soft bue towers if cut down after flowering will grow up and give autumn bloom; Michaelmas daisies, perhaps loveliest of all for lovely "Perry's Favorite," asters-"Preciosa,"," "Amos, Perry", "Esther"," Kon. Edith "Tradescantia"; ""Maidenhood" "Ideal," Delight:"
Thist list of asters includes blue purple, pink and white varieties, and will ensure bloom throughout October. Among shrubs were mentioned berries, all of which may help to make a dream of color masses.

The discussion on this paper was
led by Miss Yates of Port Credi led by Miss Yates of Port Credit, who
spoke. of the love of our soldies flowers. It was significant that in one place 427 wounded, interned soldiers had asked for horticultural papers.
She had found that asters had brought her thith hardy asters had brought her the greatest
satisfaction, and recommended especially the Alpine aster, very fine for a rock garden.
Prof. Prof. Macoun added to ${ }^{\circ}$ the list of fall-flowering plants the Japanese anemone
Mrs. Potts of Hamilton, gave a paper to help more in the beautification of our country. Give the press interesting not fail. The articles must be "palatable" and must catch the eye.
Rev. AH. Scott next read a paper on the work of horticulture in Canada, which he had given in Washington
when a delegate to the American Civic Association. Tulips.
Dr. Clark of Grimsby took up this subject, giving Girst a brief history 2 kinds were known in west Europe The tulip, he pointed out, had been brought chiefly from the Balkans, Turkestan and Persia.
Among
Among varieties recommended for Maid, Grace Darling, Proserpine. Sir Thomas Lipton, President Lincoln: Rembrandt, or striped varieties; Apple Blossom Crested Crown, Elegans, Fairy Queen The best of all tulips for cutting and lasting are the Darwins, which are exceptionally long-stemned and splendid in coloring. To show their lasting qualities he told of having kept a bouquet in cold storage for 8 weeks, after which
the flowers were good for 5 days, in water. City of Haarlem, Clara Butt, Dorothy, Dream, Electra, Ethel Roosevelt, Flamngo, Gustave Dore, Isis, La Tulip
Noire, Maharaja, Margaret, Mrs Porter Palmer, Night, Pride of Haarlem, Psyche, Velvet King, Violet Queen, Princess Elizabeth.
Parrot Tulips, when in mass, have Parrot Tulips, when in mass, have a splendor all their own, a sort of
barbaric beauty. Originally they came from the mountains of Central Asia and the Balkans. Tulips will grow in almost pure
sand as well as elsewhere. The drainage sand as well as elsewhere. The drainage
must be good; they don't like wet feet, but need plenty of moisture All tulips look best in masses, although the Darwins and Parrots do very well be clumps in the border. They should be planted 6 inches apart each way,
not too late in fall.
Usually they need no winter protection, but if any is put on it must be removed before the earth thaws in spring, as, if not, the in trying to grow through the protective material.
at first very lightly. He had found

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Further particulars, apply to
C. L. NELLES, President
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Founded 1866
The only true victory is victory of
the spirit. How oftenitisseento-dayl soldiers may be wounded, made day! Our or killed; but as long as they are of good
courage they are courage they are victorious.
An American, who sow of wounded enter Potsdam, last August, declared that the sight, last Aussed in
sadness anything he had witnessed in sadness anything he had witnessed in
the last two bloody years. These are his words:
if nour Neuve Chapelle wounded were, smiling-their bodies were hurt, but ed of the Prussian Guard-the proudest military force in the world-who had and humbled-these Guards formed the most amazing agglomeration of broken men I have ever encountered. . .
The Prussian Guard had come home. The Prussian Guard had come home.
The steel corps of the army of Germany had met at Contalmaison the light-
hearted boys I had seen drilling in Hyde Park last year, and in a furious counter-attack, in which they had at-
tempted to regain the village, had been wiped out. These were not merely wounded, but dejected wounded. The whole atmosphere of the scene was that
of intense surprise and depression. It was not, however, the lines of suffering in those faces that impressed me, but that uncanny sameness of expression, an expression of hopeless gloom so deep that
it made me forget that the sun was shining." - "D. Thomas Curtin, in the London "Times.")
Why were they so downhearted? Because they, who thought themselves invincible, had been beaten by an amateur army. They had set their hearts on earthly glory and cared for nothing else. When
this was lost they thought life was not worth living. They had, courage-but not the "good courage" of our text.
They were trusting to their own strength, It is hard for a man in that state of shamed humiliation to understand that defeat is often a greater proof of love
than victory would be. probable result of victory on men who were already so proud and ambitious! Do you remember the story of Uzziah,
king of Judah? He was he was only sixteen and at first he sought God and did that which was right. God helped him against his, enemies and he in an army of mighty men. by cunning men, which he mounted on the city walls to shoot arrows and huge stones at any attacking foe. "His
name spread far abroad. for he was name spres helped, till he was strong.
marvellously But when he was strong, his heart was lifted up to his destruction." The rest of cause God loved Uzziah. He could not permit him to go rushing on to spiritual destruction. Nothing but a severe shock could teach him humility, and God when "proud flesh" is tainting the whole man. Some day we shall thank
Him for the reverses which seemed Him for the reverses which seemed al
most unendurable for the moment. In the meantime we can wait His time for victory, and gain courage by re-
membering that our Leader fought His membering that our Leader fought His
difficult and painful way through the agony in Gethsemane, and through ap-
parent defeat on Calvary before He rose in triumph from the tomb. It is easy to be brave when we can see that all is going
well, but the courage that is highly prized by God is the "good" courage
which is undaunted when everything seems to be going "dead wrong.
If our cause is God's Cause we trust Him to carry it through. If He is fighting for us we can echo the Psalmist's conndent words: "The LORD is the stronghold of life; of whom shall I be afraid? .against Though an host should encamp against
me, my heart shall not fear: Though me, my heart shall not fear: Though
war should rise against me, even then will I be confident."' A chaplain of the King's Own Scottish
Borderers wrote home a description of a communion Service at the Front. The young men sang the 23 rd Psalm,
and realized the truth of the words: "My table Thou hast furnished

They were in the presence of their foes, and yet they found the Good for them in the crater made by a shell.


## OTTAWA WINTER FAIR

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> Telearyi, ont. CARP,

Therfificulty to teach us priceless lessons. There is a story of a Frenchman who,
long ago, asked an English captain, long agoo asked an English captain?;
C.When will you get Calais again?;
The answer was: ".When The answer was: "When your sins
shall weigh down ours." Sin is the only
real defent real defeat, and God is quite able to
give us success when He sees we have
learned humility enough to be the bearn it withint spiritual toss and inje to
beare not very humble yet-are we?
Weary Dora Farncomb.

## The Dollar Chain

A fund maintained by readers of
The Farmer's Advocate and Home (2) Soldiers' Comforts. (3) Belgian Relief. (4) Serbian Relief. (5) Prisoners
Contributions from Der. 8th to Dec 15th.: Junior League, Cedar Springs,
Ont., $\$ 2.50 ;$ Mrs. A. Wiley, Keeler Sask., $\$ 1.00 ;$ Harold Coates, Campbell-
ton, Ont., $\$ 200$. Kincardine, Ont., $\$ 5.00$; Wilson Carey Kincardine, $\$ 1.0 ;$ Elvira Carey, Kin-
cardine, $\$ 1.00 ;$ Marie Carey, Kincardine, cardine, $\$ 1.00$; Marie Carey, Kincardine,
$\$ 1.00$; "Toronto," $\$ 2.00$; "Sympathizer, " $\$ 1.25$ Previously acknowledged.... $\$ 3205.00$, Total to Dec. 15th $\quad \$ 3,223.75$ Farmer's Advocate and Home Magazine".

## Current Events.

## Greeks in Toronto are raising funds

The people of Spain have been forbidden by their Government to supply.
German submarines. German submarines.
At time of going to press the most interesting war news is of the grat
victory won by the French at Verdun on Dec. 15th. General Nivelle's first the West Front was to launch an offensive at this point, and the result was that the German positions were captured along taken prisoners, and 80 guns. Advance has also been made in the farther
east by British troops under General east by British troops under General
Maude, who was once an aide-de-camp is now smashing his way, with artillery, through the Turks to Kut-el-Amara,
the city in which it will be remberat General Townshend and his men were so long besieged. . . In the
Balkans, events have again halted. King Balkans, events have again halted. King
Constantine having agreed to the demands presented in the Allies' ultimatum. By this agreement he will have to remove his troops and war material from the
north, and reduce in other ways the menace north, and reduce in other ways the menace
to the army at Salonika. As, however,
竍 to the shmy at of almost complete de-
little short mobilization and disarmament of his,
army can be depended upon, the Allies' army can be depended upon, the Allies
blockade of the ports will be until complete guarantees are given. forces are rapidly closing on Buzeu, and it is doubtful if the position can be Russian forces which are hurrying to assist. Buzeu is important because it
is a railway junction and affords anser to the grain ports of Galatz and Braila to the grain ports of Galatz and Braila
on the Danube River.

During the past week the German Chancellor, in the Reichstag that peace proposals would be sent at once to the neutral nations to be conveyed to the belligerents. The announcement raised
scarcely a ripple of interest among the scarcely a ripple whom it was surmised
Allies, that any peace terms at present offered by Germany would be no security to
the future peace of Europe. In Great the future peace of Europe. In Great
Britain nothing has been definitely said, pending.the arrival of these terms, but announcement may be made before
this reaches its readers. The immediate event was an announcement in the British House of Commons that $1,000,000$ more men are to be added to the army,
and a motion brought in by the new and a motion brought in by the new
Chancellor of the Exchequer, Andrew Bonar Law, providing for a new vote of credit for $£ 100,000,000$. The motion
was passed unanimously. In England
the new Food Contruller, Baron Devon port is perfecting a plan' by which food everyone a fair share of all commodities The overturn in the British Govern-
ment was accompanied by some changes of a similar nature in France, where of Cofre, although still retaining his title pointed Technical Counsel of been apGovernment the active power as Com mander being passed on to General
Nivelle.

## A Christmas Prayer.

by louise morev bowman,
Dear God, who spoke through Bethlehem, A little, anxious, mother's prayer on this For in this wild, gay turmoil of our feast ing and our mirth How far away the silence of the simple Amid this wealth of gifts-the spoil of We keep the Christ Child's birthday in such puzzling modern ways (Have I not lavished wise men's gifts,
Yet have I prayed for Thine? Oh, Holy Child, I beg Thy Thifts
For these wee sons of mine.)
Their Christmas Tree! Ah, how it gleams Before their eyes, and yet it seems
To me, that where I careless hung To me, that where I careless hung A tinsel angel, I see now
A little Cross! The forest tre Is Thine and vision brings to me me
Of dark still trees upon the heig Of dark still treess upon the heights,
Of quiet, snow-clad hills that Godquiet, snow-clad hills, that sta
Gd's sentinels o'er all His land Through centuries of Holy Nights And His far friendly stars, that shine Ont this poor little feast of mine.
God of the Silence, speak to (Have I not lavished wise men'sgifts, Yet have I prayed for Thine? Oh, Holy Child, I beg Thy gifts
For these wee sons of mine.)
will be resumed next week. Lack of spact will be resumed next week. Lack of spaci has compelled us to hold it ove


Dec. 28.-Southern Counties Ayrshire Breeders Club, Tillsonburg
Jan. 2, 1917, Cecil Nevill, Straffordville, Jan. 31, Brant District Holstein Coriv signer's Sale.

Seed Oats to Supply the Shortage The past unfavorable season has caused a great shortage in the supply of good
seed oats in Ontario and Western Quebec Even the best samples we have seen should be graded to about 30 per cent. to
make them suitable for seed. Rather than sow light grain from a stunted crop farmers are well advis The special grade for seed oats estab lished at the Government interior ter minal elevators last year, will serve as a
much needed source of supply. This No. 1 Canada Western Seed oats must be 95 per cent. white oats, sound, clean free from other grain and from noxiou weed seeds within the meaning of tho
Seed Control Act, and shall, weigh not less than 34 lbs . to the bushel. It is available through the usual channels of commerce for grain.-Seed Branch Ot

Coming Events.
Jan. 4 and 5.-Eastern Ontario DairyNapanee. Jan. 10 and 11.-Western Ontario
Dairymen's Association Dairymen's Association Annual ConvenJan. 16 to 19.-Ottawa Winter Fair. Short Courses at Ontario Agricultura College, Guelph. In stock and seed judging, Jan. 9 to 20; poultry raising,
Jan. 9 to Feb. 3; bee-keeping, Jan. 9 to Jan. dairying, Jan. 2 to March, 23; horticuture, Jan. 9 to Feb. 16; business and
marketing, Jan. 9 to 20 .


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THE ARNOTT INBTITUTE

## Canadian Sheep at the

 International.There were several flocks of Canadian beep at the International Live Stock Exposition, and in spite of the very strenuous competition they came off, in the end, very successfully. There were few entries from this country in the Shrophire classes, where Jess. C. Andrew, A. Broughton \& Sons, Wisconsin, and H. D Eddingfield, were some of the principa winners. In breeding Southdowns, the
dock taken to Chicago by Robert Mo flock taken to Chicago by Robert Mc wen, of Byron, Ontario, captured severa of the best prizes. In aged rams, Mc
Ewen was first and J. Lloyd-Iones, o Burford, was second. In yearling rams McEwen was first and second, as well as irst, second and third on ram lamb under ne year. In yearling ewes W. H. Miner second and third In we Mcewen University of Illinois, was first with McEwen second and third. McEwen's yearing ram was champion, and the University of Illinois ewe was champion the flock and on four lambs of either sex bred by exhibitor, H. M. Lee, of High gate, Ontario, captured the majority of
the good prizes in the breeding Lincoln classes. He was second on yearling ram first and second on ram lamb; first, second
and third on yearling ewe ; and same prizes on ewe lambs. A. W. Arnold of Wisconsin, won the championship on his aged ram, while Lee had the champion ewe. Lee fiss won iurst and second on the flock and first on four lambs or either sex classes, Peter Arkell \& Sons, of Teesshowed the only aged ram, but it was good enough for champion. This same animal The Canadian flock had the in 1912 second yearling rams, and third-prize ram first. In the aged-ewe class, Arkell was R. J. Stond and third, but in ewe lambs Arkell second and third. ${ }^{\text {The }}$ The champion ewe also came from the Canadian flock. In breeding Leicesters, John Kelly \& thing their own way. In the fat-sheep
there division, the Shropshires and Southdowns were exceptionaly strong. The latter gether, and many wethers that would be considered good sheep were eliminated at the beginning of the different classes to
make room for the probable winners The fat Southdowns were a feature of the sheep exhibit. Jess. C. Andrew, of sheep exinh.
Indiana, showed a wether in a class of 22 yearling Shropshires, winning first prize. This wether was later made grand champion of the fat classes. Lloyd-Jones was
third on a pen of three wether lambs in this division. In fat Hampshires, John
Kelly \& Son were second and third In the yearling wether class Southdowns, the University of Wisconsin was first, Andrew was second, and the Wisconsin wether, in this class, was made to the fat Shropshire for grand champive ship. In wether lambs, Andrew was first, and McEwen second. McEwen showed
the first-prize pen of three wether lambs. the first-prize pen of three wether lambs.
In fat Lincolns, H. M. Lee, of Highgate, Ontario, won all the first prizes and some
secon between Peter Arkell - \& Sons and R. J.
bene. In the yearling wether
Stass Sto Stone. In the yearling wether class Stone
was first and Arkell second; in wether lambs, Arkell was first and Stone was
second. John Kelly \& Son won all the second John Kelly \& Son won all the
first prizes on fat Leicesters, with a second prize going to Lee on wether lamb of Burford, Ont., 12 years ot age, were the frst and second-prize winners in the feed-ing-lamb contest. The lambs had been
fed from the first of August, and a statement of costs, etc., was submitted.
There were five contestants in the class.

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December 21, 1916


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 cattle have won 14 first prizes for herds out of won 154 first prizes and 19 champion prizies. Our
 WOODLANDS BROWN SWISS AND PONIES We have no Clydes. Left for sale. OBr special offering is Brown Swiss. bulls. out of high.testing and r. ballagh \& Son guklph, ontario
TWO BULLS---Born April 1916
 d. C. FLATT \& SON, Long-distance phone R. R. 2, HAMLLTON, ONT.
 of high-class, fashionably bred Scotch Shorthorns in calf tos Sittyton Sultan's Dale, a Mina-bred son of
Avondale, dam by Whitehall Sultan, is of interest, come and examine my offering. BURNFOOT STOCK FARM UR MOore, Prop. Visitors welcome. CALEDONIA, ONT

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## Shorthorns Pure Scotch and Scotch topped-Booth. Also five (5) young bulls from ten to twenty months old of the 1ow down, thick kind, good colors-reds and roans. Price reand reasonable.

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## 

kind of device for money-making and
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OIL CAKE OTTON SEED MEAL Write for Prices.
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dual-purpose catle oover 40 years. Have great
milkers and beefers. Glad to have vou see them or milkers and beeters. Glad to have you see them, or
write-Thomas Graham, Port Perry, R.R.No. 3
Northlynd Bute.P. Shorthorns and JerseysShorthorn herd. Edgeley Prince Snnbeam hears
our Jersey herd. For sale: A few young heifers
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and bulls, the get of these great bulls, out of high-
record cows. G. A. Jackson, Downisview, Ont.
Beaver Hill Aberdeen-Angus Males and females, alf ages, for sale. Prices right
ALEX. McKINNEY
Cheltenham, G.T.R. MckinNey $\underset{\text { R.R. No. 1, Erin, C.P.R. }}{ }$


Questions and Answers. Miscellaneous.

Pumping By Engine. I have a gas engine and a double
geared jack hitched to a two-way pump handle. The jack pulley turns 16 times
to lift and lower bucket once. The jack to lift and lower bucket once. The jack
end of handle is 9 inches, pump end 6
It raises bucket 6 inches. It does no It raises bucket 6 inches. It does not

pump fast enough. Can you advise me | how to hitch it to make it pump faster? |
| :---: |
| A. S. | Ans.-The jack apparently is run by a

belt from the engine. It is intended to
reduce the speed and belt from the engine. It is intended to
reduce the speed and cuts it down too
much. To remedy this use a smaller pulley on the jack, or a larger one on the
engine. If you want to pump twice as engine. If you want to pump now mace al or the engine pulley twice the present
size. W. H. D.

Painting a Silo.

1. Should a stave silo built of yellow
pine be painted pine be painted on the inside as well a
on the outside? Should all silos with cement floors have a hole left in the centre
for drainage? for drainage?
2 . I want to put in a greater acreage o
corn next summer than I will have manure corn next summer than I will have manure
for, and am thinking of trying commercia
fertilizer. Should I sow broadcast or put fertilizer. Should sow broadcast or put
a handful in each hill when planting? W
use a marker and plant with a hoe. I use a marker and plant with a hoe. Is
fertilizer generally sown from the grain
box of a seed drill or is there a special drill box of a seed drill or is there a special drill
used for sowing it? J. E. C. Ans.-1. It is not essential that it be
painted on both sides, although we find
that many do so and claim that it tend to preserve the wood. Drainage from the
silo is not absolutely necessary. The ad silo is not absolutely necessary. The ad-
vantage of having a drain is that, should
the corn be put in when fresh any surplus the corn be put in when fresh, any surplus
moisture will drain away rather than re-
main in the silo to sour the silage at the bottom.
2. Both methods of applying fertilize
. are followed. By putting it in the hills
the corn gets a quicker start, as the
nourishment is right at the base of the nourishment is right at the base of the
roots. However, it must be remembered
that the that as the crop grows, the roots spread
out and practically cover the ground later rootlets do not get the good of it For this reason we preter sowing fertilizer
broadcast. There is a special fertilize drill on the market. We 'have known cases where satisfaction when applying a tendency for the fertilizer to rust out the castings of the drill.

Pickling Beef.
Will you please publish in your paper a recipe for curing beef for summer use. well during the summer, but I know noth ing about the method of handling beef.
SUBSCRIBER.
Ans.-There are several recipes which
give fairly good results. They vary give fairly good results. They vary
somewhat in the amount of salt and sugar somewhat in the amount or sate and sugar
used. For 50 lbs . of meat take 2 gallons
of water; 4 lbs . of salt; 2 lbs. of brown of water; 4 lbs . of salt; 2 lbs. of brown
sugar, and one ounce of saltpetre. Boil
for ten minutes, then skim to remove any for ten minutes, then skim to remove any
scum which may rise to the top. Re-
move from the fire and allow to stand
until cold. The pieces of meat should be unth cold. The pieces of meat should
put an a cask or crock and covered wit
the brime. It will be necessary to weig Should the brine become sour, drain
off, boil and pour back on the meat whe

and consists of 23 females of milking age. (fresh milkend springers) thres at 1 p.m.
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This is true whether you have no separator, or an inferior make of machine, or even an old model De Laval-machine. The waste of butter-fat is relatively greatest in winter, eithe
with gravity skimming or a poor separator. At present cream and butter prices, a new De Laval machine will almost surely save its cost within three months, and go on
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proprietor is going to New Ontario for his. health. Write for catalogue
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measure up to every requirement They are as sturdy as a skyscraper
They have no cross-beams to hinder unloading or mowing away They are fire and lightning-proo They have metal-clad, roller doors,
lift roof-lights, sliding side windows lift roof-lights, sliding side windows
and "Acorn"" ventilators. The and will compare favorably with a wood frame barn.
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Newton Crystal
Phooto and
H. M. VANDERLIP

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Large selections in females, all ages, bred
from the best dual-purpose families. One extra choice fifteen-months bull, some younger ones ca
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Beef and Dairy breelds of cattle, Show and Field
Shee Sheep. Illustrated catalogues and testimonials on
application All inquiries answered with pleasure. Appication All inquiries answered with pleasure.
Now is the time ti import, prospects were never
beter, and insura beter, and insuranee against all wars risks can be
covered by payment of an extra $1 \%$ only. NT $\begin{gathered}\text { MORE MILK-BETTER MILKK. } \\ \text { Therouh tests on the Gover. } \\ \text { ment Experimental Farms show }\end{gathered}$ , 2 Give more milk and better mike
They recommend the KEYSTONE
DEHORNER as the most humana DEHO recommend the KEYSTONE
Dnd efficert mothe most humane
und eficient instrument for the E. MCKENNA, 219 Robert St., Toronto. DUAL-PURPOSE SHORTHORNS
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'THE FARMER'S ADVOCATE

Questions and Answers Miscellaneous.
Tumor on Udder
I have a Jersey and an Ayrshire
cow. On the udder of each of them cow. On the udder of each of them
hard, roundish lumps have formed, I hara, roundish lumps have formed, I
think in the skin. One of the lumps burst, I applied warm water and an absorbens. What are they? What is
the cause? What is the best treatment 2. Do heifers, giving milk give the same strength .. of butter-fat in their
after years as the milk-giving year? Do they improve?

Ans.-It_ is difficult to say definitely what is_the cause of the lumps appearing inclined to think that cow, but we are which are abnormal growths of tissues. Treatment consists in a direct removal. If they are tumors, they may be cut out and the wound kept clean and treate
with some antiseptic. For an operation of this nature it is advisable to call in a
veterinarian. Tumors which appear on the surface may be removed apear on tying
a strong cord around the neckof the tying This shuts off the blood supply and when this is done there will be a sloughing away.
A sore will remain which could be treated as an ordinary wound.
an As a rule the test varies very
a. As a Unthrifty Heifer-Damp Henhouse. I have a pure-bred heifer which She does not thrive, and her hair is dry. It stands up unnaturally. She
eats and drinks very well and is not pasture she seemed rather stupid. Could you suggest any course of treatment
that would be benencial? 2. I Built a henhouse this summer
14 by 28 feet. Have 95 fowl in it The roof is made of boards, paper an
shingles, but the frost comes througl, causing a dampness on the inside. Everything in the henhouse is very damp.
I put a ventilator in the roof. Although I am feeding the hens well they do not
seem active and are not laying. Could you tell me how to correct the dampness
I would also like to have a suggestio as to how much grain, mash, etc., areneces-
sary for the number of fowl mentioned?

Ans.-1. Without further details it is impossible to diagnose the case. No
mention is made of the feed which she is receiving. Evidently the system i attention, and good feed to bring it back to normal There is a possibitity
that she may be suffering from some disease, but it will require an inspection
by a veterinarian to tell what it is Give a considerable amount of succulent
feed, such as silage or roots, and feed good clover or alfalfa hay. Oats and bran make a very good concentrate and a
little oil cake added will aid in putting the system in condition. A warm bran mash occasionaly would do no harmi.
2. The henhouse is lacking in proper ventilation. The ventilator in the roi which always rises to the top, thus leaving the pen colder than it normally
would be. It is not stated how many windows are in this building, but we
would advise that facing south be one third glass, and one-third cotton. Close
up the ventilator, as the air difusing through the cotton will give sufficien ventilation without in any way causing on the roof. If the henhouse has a peal with straw. This tends to absorb any dampness which might be in the pen straw occasionally as it may become infested with vermin. No definic amount of feed the hens will require
hut what coarse grain can be held in but what coarse grain can ificent for bird in a day, provided they have access
to a mash. When the mash is fed wet they should have about as much as
they will clean up nicely in a short time Some poultrymen keep a dry mash
before the birds at all times.


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J. A. \& H. M. Pettit, Freeman, Ont. represent the choicest breeding. We can mee SCOTCH SHORTHORNS, YORKSHIRES \& OXFORD DOWNS Our Shorthorns are of the most noted Scotch families and the Scotch (imp.) bulls, Joy of Morning
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51 to select from. 20 breeding cows and
as many choice heifers, many of them bred as many choice heifers, many of them bred,
also a lot of colice young bulls, all of the
dual-purpose strain. All sired by choice John Elder \& Sons, Hensall, Ontario bulls and regegistred. And sired by chored at pricee
to live and let live. SPRING VALLEY SHORTHORNS Herd headed by the two great breeding bulls, Newton Rungieader (imp.)
Ramsden 83422. Can supply a few of either sex. kyle bros. SHROPSHIRES - T. L. Mercer, Markdale, Ont SHORTHORNS AND SHROPSHIRES - T. L. Mercer, Markdale, Ont
 IMPORTED SHORTHORNS Cows and heifers in calf, or with calr at foot. Yearling bsils and.
$\begin{aligned} & \text { portations of he year. } \\ & \text { WILL A. DR YDEN. You will be surprised when you see them. } \\ & \text { Maple Shade Farm, }\end{aligned}$
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And what are you getting for And what are you getting for
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We want more individual shippers, and more men to gather cream
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Write for our proposition.
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Upward GREAM SEPARATOR Sent on trial. Fully guar-
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## Holstein Bulls

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

Questions and Answers. Miscellaneous.
Foreclosure.
In regard to a mortgage falling due and the mortgagee wants his money, can he close the mortgage in war time or not?
W. R. M. Ans.-Generally speaking, he cannot. But it is possible in some cases-a judge's Where the mortgage was given since the war began there may be foreclosure without any such order.

Motor power for a Binder.
Can you tell me what firm or firms
make the small motors to attach to bind make the small motors to attach to bindhorses will only have to draw the
machine? machine? Ans.-Write the Cushman Motor
Works, Winnipeg, Man. International Works, Winnipeg, Man. International
Harvester Co., Hamilton, Ont., may also manufacture them.
Leucorrhoea.
I have a well-bred, 10-year-old Jersey
cow that has been milking nearly 2 years. Last winter she slipped and fell, and since then does not come in heat
regularly. At times when lying down regulariy. At times when lying down
she passes a thick white substance shich my veterinarian calls leucorrhooea.
will it be worth while to cure her? Also Will it be worth while to cure her? Also
would a cure be permanent?
A SUBSCRIBER Ans.-Leucorrhoea is usually a trouble-
some disease to cure, and requires patience and continued treat ment for a long time.
However, treatment is worth while However, treatment is worth while
for a good animal, and a cure is usually permanent. Flush out the womb daily
with about a pallon of with about a gallon of warm solution of
some antiseptic. Sprinkle three times
daily some antiseptic. Sprinkle three times
daily 40 drops carbolic acid mixed with
a pint of cold water on her feed or civen a pint of cold water on her feed or given
as dre nch. Treatment should continue as dre nch. Treatment sh
until the discharge ceases.
-Garget.
monthe a a cow a in mood milker. A A or five
days a days ago one teat gave hardly any milk
in the morning, and since that has given no more, or very little at each milking
and curdled at that. The quarter does not seem to be swollen of any account that teat comes as easy as ever. Other teats are all right. I feed bran, oat
chop, gluten meal and oil-cake meal chop, gluten meal and oil-cake meat
mixed with cut straw and clover hay. Ans.-We are inclined to believe that the cow has a slight touch of garget,
which may be caused by an injury
or a chill, which will or a chill, which will sometimes come from
lying on a cold floor. The udder usually swells up quickly, but often goes down
rapidly. As soon as the trouble is rapidly. As soon as the trouble is
noticed the cow should be given a purga-
tive of noticed the cow should be given a purga-
tive of one pound Epsom salts, and a
tand teaspoonful of saltpetre dissolved in a quart of warm water. If the udder
is anyway sollen or feverish, bathe
with hot with hot water, and then rub well with
a mixture of spirits of turpentife and goose oil or lard. The trouble may disappear very quickly, and again the
quarter may be lost.

healed, with an ant iscpucic, as a 5-per-cent.
solution of cartholic acil., While it does
and we may say a chucty, to work her,
and it it is contmued the rocsults are very
liable to the serious. As it is in the neighbor-
hol
hood of important blocel vecsels, it will
be wise to employ a veterinarian to oper-
ate.

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We are in the market for cream and can guarantee HIGHEST PRICES for churning or for table use.

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 30-LB. GRANDSON OF KING SEGIS Two years old. The records of his dam, grandam and her full sister average 30 libs. Mostly white,
lon, straight evenly developed very smooth and stylish.
fiftect hundred port pral promising individual, weighs over Hospital for Insane, Hamilton, Ont.




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ended pedi
F O R
grees. GRIF
OR SAL
griesbach
Two Choice Bulls

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 Maple Leat
In sheal


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December 21, 1916


But not only for fat production, but
also her yearly production of milk. also her yearly production or mire
Quantity and quality combined are
the two big features that are making the two big features that are making
Aysthires more popular from year to
year. If your herd is an Ayrshire herd year. If your herd is an Ayrshire herd
youg can milk fewer cows and yyet have
biger cash returns. The Socthmat bigger cash returns. The Scotchman
showed his shlewewdness when he selected
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Choice Offering in Ayrshires
at special Prices-Sevtral young bulls of scrvice-
able ages. All fom R.O. .sires and dams. Come
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JERSEY BULLS, For sale-Knoolwood's Raleigh,
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In Shorthor JOHN BAKER, R. R. No. 1, Hampton, Ont. SHROPSHIRES

Willowbank Dorsets


THE FARMER'S ADVOCATE

Ans.-Except when the splint is so high that the knee joint is involved,
splints seldom cause persistent or perma-
nent lameness. The mare should be given a rest and a blister applied to the enlarge-
ment. In some cases it is necessory ment. In some cases it is necessary to
have it fired by a veterinarian. A mixture
of 2 drams each of biniodide of mercury of 2 drams each of biniodide of mercury
and iodide of potassium in 8 ounces of water makes a good absorbent blister.
Two drams of cantharides mixed with one ounce of lard or vaseline makes a good blister to apply to splints.
What is a sure cure for lice on hogs and
cattle and for ringworm on cattle? cattle, and for ringworm on cattle? F. S. Ans.-Insect powder sifted into the remedy for lice on cattle is four parts cement to one part hellebore. This is
mixed thoroughly and sprinkled on the backs and sides of the animals. A small
tin can with a few holes punched in the top will serve as a shaker. Care should be taken not to turn the cattle out in the
rain for a short time after this mixture has rain for a short time atter this mixture has
been applied. For hogs, apply any of the
advertised sheep dips or disinfectants. In treating ringworm, the scurf should first be moistened with sweet oil and then ap-
ply daily until cured a tincture of iodine The premises should be thoroughly cleaned and disinfected to destroy the
parasite which causes the disease. parasite which causes the disease. Bricks in a Wall-Seed for Barn 1. Give rule for estimating number of bricks in a wall, and directions for making mortar for bricks. 2. Would brome grass seed be good to
sow on barn bridge where a sod is wanted? sow on barn bridge where a sod is wanted?
Ans.-The wall surface would have to Ans.-The wall surface would have to
be reckoned up and the space ifled by one
brick divided into it to determine the brick divided into it to determine thell.
number of bricks required for the wall
D Bricks vary a little in size, but they usually
run about $81 / 2$ inches long by $21 / 2$ deep. A considerable space is taken up with
mortar, the amount depending on the mortar, the amount depending on the
thickness used. Find the number of bricks necessary for one layer and multiply
by number of layers required to build the wall to the desired height. Space should and-one-half to 5 parts sharp, clean sand to one part lime, depending on quality of 2. Awnless brome grass is a persistent should do fairly well on a barn bridge, but care should be taken to prevent it
spreading, as it is somewhat difficult to spreading
eradicate

Distribution of Tobacco Seed.
A sample of choice seed, in $1 \frac{1}{4}$ ounce
packages, of one of the following varicties of tobacco: White Burley, Warne,
will be sent free to any tobacco growe who applies for same to the Tobacco before the 15 th Februrary next. This
quantity of seed is sufficient to sow 150 quantity yeet of seed bed, and to plant one acre. The supply of seed being limited,
the growers desirous of securing seed should send in their application at an
early date, as all requests will be classified in the order received. No applicant will
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Jno. Pringle, Prop. We work our show cows and show our
H. ARKELL

SUMMER HILL STOCK FARM
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PETER ARKELL \& SONS, Proprietors.
BLAIRGOWRIE SHROPSHIRES AND SHORTHORNS
 JOHN MILLER,
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Mynt.
Mytle Sta., C.P.R. 2 .
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## I

THE FARMER'S ADVOCATE.
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FACING BRICKS HOME OR BARN

 ot plowing, hataer and are not maino with

## Interprovincial

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mod you coold dol do bioter then to write us



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of Canada Limited
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LIVINGSTON BRAND

## OIL CAKE MEAL


Sunny Brae Yorkshires Keep the boy on the farm by giving him poure-bred sow. Let us quote you a
qued to farrow in $A$ April from Toronto and Guelph winners. Young boars, 5 mos. Satisfaction guaranteed. MEADOWV. TALE.
 Himer or 1 Thand on monthe, birie ourt champian
 Covercholo Berk birite band Shrophireo-In

 YORKSHIRES AND COLLIES
 A.ARMSTRONG \& SON, CODRINGTON,ONT.

## TAMWORTHS

 Young sown brad for Noo and Dee farow, and 2 Ioinc w. Tond. R. R. No. 1. Coornthi, Ont. Meadow Brook Yormathite - Amo of ening
 Duroc Jersey Swine. Inheve been import.


 Tammorthe both sexxe, 140 ow ohoose from, Short
 Pine Grove Yortsabhreet Brod from prize-
 Suaraheme ditiaction Son, Streetroille, Ont. Duroc Jerseys $\begin{gathered}\text { For } 13 \text { yeara our beed } \\ \text { ing } \\ \text { stock } \\ \text { has } \\ \text { hben } \\ \text { boen }\end{gathered}$ choice ellections from the champion herds of the





Prospect Hill Berkshires Young sock, either exx, tor ale from our imported
 Lakeview Yorkshires if you want a brod

 Pollands, Durocs, \& Berkshires Coung stock at all timese, both gexes. and all azese whs Everything priced to sell.
Leamington, Ont.

Questions and Answers. Miscellaneous.

## Service Foe.

A certain man A had charge of a Government stallion, and after having him for a period of time found that he Was of no service, so he sent word to the was sent for the horse and all expenses paid to date, However, A kept the mare the day he was sent away. Can $A$
Rollect any pay? collect any pay? READER. Ans. - We belieye A is entitled to th
service fee he was regularly charging.

Keeping Factory Books.
Could you give us a pretty fair idea made up next year, as the new Standard Dairy Act will then come into force. Tell us wherein the work would differ from this year and an idea of the method.
Ans.-Paying according to the fat content of the milk or on the at +2 basis Will require a litte more higuring than tity. Instead of striking a rate per hundred pounds of milk the rate will have to be per pound of butter-fat. The amount of butter-fat in each patrons milk
will have to be figured out and this mul will have to be figured out and this mul-
tiplied by the price per pound of fat to determine the value of the milk.

## Veterinary.

Splintered Jaw
Mare began to salivate in October. A swelling appeared on outside of lower jaw and a small ulcer in the mouth, at root of molar tooth. The swelling broke extracted. The tooth was sound the swelling broke several times and a piece of bone came out. I have been using carbolic solution, but the wound does
not heal. not heal.
Ans. Ans.-The jaw bone was fractured in some way. There are probably more pieces of loose bone, so
to cut down through the tissues and remove them, then syringe out two or three times daily with a 5 per cent. solution of carbolic acid. If there be no more pieces of loose bone, the use of the carbolic lotion as above is all that is moved tooth will gradually fill up.

Questions and Answers.
The Tillsonburg Ayrshire Sale.
This is the last call to the auction sale of the Southern Counties Ayrshire Breeders' Club, to be held at the Imperial Hotel stables, Tillsonburg, on December 28th This is an opportunity, that should no
be missed, of securing some of the great producing Ayrshires that are coming from this district. The breeders con-
signing stock to this sale are: $W$. $W$. signing stock to this sale are: W. W.
Ballantyne, Stratford; Geo. Apel Mitchell; F. H. Harris, Mt. Elgin; J. A, Morrison, Mt. Elgin; McConnell \& Ferguson, London; E. B. Palmer \& Son,
Norwich; J. L. Stansell, Straffordville: Jas. Begg \& Son, St. Thomas; Thos Dennis, Straffordville; MacVicar Bros.
Belmont; E. Burns Stansell, Vienn Collier Bros., Beachville; and R. J. A. Smith, Hatchley Sta. There will be 40
females and 10 young bulls in the sale many of the females will be cows fresh in milk or due to freshen soon after the
sale. A choice lot of young bulls, most of them old enough for service, are also
listed. The blood lines to be found in the Ayrshires herds of this district are among the very choicest to be found anywhere.
Scotch Thistle, the present R. O. P. three-year-old Ayrshire champion an butter fat record for a two-year-old Ayr shire, were both purchased at a former
club sale, and stock can be secured in the present sale closely connected to them. Stock will be found in the sale ducing families as the Jean Armours Garclaughs, Brierys and Primrose of Tanglewylds. W. W. Ballantyne, Strat-
ford, Ont., is president of the club and ford, Ont., is president of the club and
John McKee, Norwich, Ont., secretary tary for a sale catalogue.

## Scientific Saving!

Life insurance constitutes a savings bank ac If the life insurance depositor iles inst
If the life insurance depositor dies, instantly available under his life insurance policy.
Whereas only-the deposits themselves, with interest, would be available for the relatives of a epositor in a savings bank.

Banks are, of course, an absolute economic aecessity, but they do not fulait the double purpose that an insurance of accomplishes.

Patient saving of $\$ 50.00$ per annum for 20 years ould give a depositor $\$ 1,000$, plus interest, but draw only $\$ 50.00$.

Under a Mutual Life Endowment policy maturing at the end of 20 years a deposit of $\$ 50.00$ would carry with it an indemnity of $\$ 1,000$, payable to the beneficiary if the assured died in the first or any succeeding year-and the full amount with profit
payle tho assured if ivige at miarty.
Thus an Endowment policy in the Mutual comTECTION.
The Best Security one can hold is a Mrutual Policy.
The Mutual Life
Assurance Company of Canada Waterloo, Ontario


## YORKSHIRES FOR SALE

Young sows, recently bred; also young pigs, both sexes. Address:
Weldwood Farm, Farmer's Advocate, London, Ont.


TAMWORTHS AND SHORTHORNS

DUROC JERSEY SWINE, JERSEY CATTLE




GHERRY LANE BERKSHIRES AND TAMWORTHS
 G. Gulph. frsas and dhampion Tamworth boar at Guelph. norval station, ont

> (3)
> ELMHURST LARGE ENGLISH BERKSHIRES From our recent importation of sows, together with the stock boar, Suddon Torredor, we
can supply select breeding stock, all ages. Satisfaction and gafe delivery guaranteed H. M. VANDERLIP,
Langord Station on Brantford and Hamilton Radial

> Quality in YORKSHIRES
> FOR SALE-T
choice sows bre
ing age; also ing age; als.
young boars.
> RICHARDSON BRO When writing advertiserg will columbus, ont

DECEMBER 21, 1916
Some Record Prices at the International.
Never before in the history of the In ternational Live Stock Exposition have the sales for both breeding and fat live stock, held in connection therewith, The Shorthorn sale, conducted under the auspices of the American Shorthorn Breeders Association, made an average of \$958.66. Maxwalton Pride 2 nd, which
won the two-year-old class, sold for $\$ 6,650$. This was a roan bull, bred by Carpenter \& Ross, and got by Maxwalton Renown. Royal Silver, calved Septemwas the next highest-priced bull at $\$ 4,000$. The top cow was Minerva, by Superb; and out of Mina 7 th, she went to C. D. Smith, of Tennesee, for $\$ 1,625$. A summary of the sale shows that 56 head averaged $\$ 958.66$, and but for quite a would have been over the $\$ 1,000$ mark. The following information regarding previous International Shorthorn sales was 1902 - mitten bull 1902 . Thirteen bulls averaged $\$ 433$;
56 females averaged $\$ 380$; top of sale, \$1,000. 1905.-Ten bulls averaged $\$ 434 ; 28$ females averaged $\$ 389$; top female,
$\$ 1,025$; top bull, $\$ 1,000$. 1906.-Fifty-one head

1906 .-Fifty-one head, 86 , cows and 15
bulls, ave aged $\$ 394$; top female, $\$ 875$; 1907, -Fourteen bulls averaged $\$ 335.70$; 37 females averaged $\$ 246.62$; top bull,
$\$ 1,300$ : top female, $\$ 865$. 1909. - Seventeen bulls averaged $\$ 260.30 ; 33$ females averaged
top female, $\$ 1,500$; top bull, $\$ 510$. 1910. Fourteen bulls averaged $\$ 337.85$;
33 females averaged $\$ 353.64$; $\$ 1,230$; top bull, $\$ 1,125$. 1911. Fifteen bulls averaged $\$ 292 ; 28$ remakes averaged $\$ 321$; top female, $\$ 825$;
top bull, $\$ 700$ 1912 . 1912 - Eleven bulls averaged $\$ 336$;
general average, 40 head, $\$ 282.75$; top 1913. -Eleven bulls averaged $\$ 446.30$; 31 females averaged $\$ 420$; top bull, $\$ 750$;
top female, $\$ 1,275$; The Aberdeen-Angus sale lacked nothbull of the show, sold to Fred. Roberts, yearling, sired by U Undrlata Blackcap Ito 2nd. Edward of Glencamock 3 rd,
which won the senior bull-calf class for Which won the senior buil-calf class for to George Small of Texas, for $\$ 1,550$,
Robert McEwen of Byron, Ontario, paid $\$ 800$ for, Queen's Edward, a senior bull calf, which stood fourth in his class, The
highest-priced female was Eulina 28 th which was cashed for $\$ 1,500$. Majesty's. Fifty-three head sold for 836,$100 ; 37$. females averaged $\$ 608 ; 16$ bulls averaged
$8848 ; 53$ head averaged $\$ 680$. The Hereford sale. was one of the most and reserve champion bull, Woodford Lucky, realized the spectacular amount of 815,100 . At the sale of young Clydesdale stallions
and mares, 31 head sold for $\$ 22,795$, averaging \$736 each. Osco's Darling, a ge-yeat-old mare which did not even hands at $\$ 3,025$. Fairholme Warrior, Which won fifth place in a class of three-
year-old stallions, was bought for 82,000 , and presented to the Virginia AgriculKalb, Ill., bought a carload of horses in all. Among them was the well-known. Clydeswhite stallion, Evader, by Everlasting, for
which paid $\$ 775$. The grand champion bullock, California Favorite, was sold at public auction to a
Detroit firm for $\$ 1 / 75$ a pound, This wras a record price. The nearest approach to it was paid for the Angus champion of
1900 , a steer named Advance, which went 1900, a steer named Advance, which went
at $\$ 1.50$ per pound. The grand champion carload, which were yearling Angus steers, realized 28 cents per pound. In
1906 the. winning carload brought 17 cents, which is the nearest approach to
the 1916 record.

THE FAFMER'S ADVOCATE.


Let us send this to your friends and relations for Christmas!

THIS is to be a year of sensible, useful gifts. Why not send a year's subscripdion to those you wish to remember
Remit the amount, $\$ 1.50$, to us with the name and address of the person to whom you wish the paper sent, and we will forward a beautifully-colored card on the style shown above, but done in red, buff, brown and green, conveying a' seasonable greeting with your name inserted at the foot.

Both the card and a copy of the beautiful 1916 special Christmas Number will be timed to arrive on Christmas morning. This is a very neat way of making a present, and the card and its appropriate greeting and the personal touch will be highly appreciated as well as the gift.

When you send "The Farmer's Advocate and Home Magazine" for a year, you 'are making
A Splendid, Practical, Helpful Christmas Gift
Coming weekly to the recipient, it is a constant reminder of the giver. It is safe to say that no other gift at anything like the same cost will be productive of so much lasting pleasure and real profit as a year's subscription to this journal.

Over 30,000 subscribers receive it regularly each week. All agree that it is "THE WORLD'S BEST FARM PAPER," and this is the opinion of the leading agricultural experts.

Send \$1.50 To-day
with the name and address of the person to whom you are making the present and we will attend to the rest.
Special Offer: We will include the special 1916 Christmas Number (worth morning with the card, and will send the journal thereafter each week until Dec 31st, 1917, including the Christmas Number next year, making two Christmas Numbers in one year's subscription.
The William Weld Co., Limited $\#:=$ London, Ontario
(USE THIS COUPON)
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 year's subscription to The Farmer's advocate and Home Magazine:
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## Boys Willing to Work Can Make Money to Buy Things They Want!

FILL IN the coupon below and mail it to us. Write a short note, giving your age and stating whether your people subscribe, and anything of interest about yourself.

When we get your letter, we will write you at once, giving full information and instructions. There are lots of good farmers in every district who will take The Farmer's Advocate and Home Magazine when it is introduced to them.
You get a profit on each new subscription you. get, and when you have sent in ten, we mail you a special money prize in addition. By saving your earnings you will soon have a nice little bank account, and will be able to pay for what you want with your own cheque.

## IMPORTANT NOTICE!

We do not give the articles shown here in return for subscriptions secured. We simply picture these things to show you what you can buy for yourself with the money you earn.

In previous advertisements we have mentioned one of our boy agents living in Tupperville, aged nine years, and told how he had sent in six new subscriptions already. Since then he has hustled around and got four more, making ten new subscriptions, and we at once sent him his extra money prize.

Girls can do this work as well as boys, and we have had the pleasure of sending extra prizes to more than one bright girl who went strongly after new subscriptions.

You can do as well as anybody else if you start with the determina-
 tion to succeed. Make up your mind before writing us, that you will canvass every farmer within reach, and resolve to wint the
prize which we give each agent when he has sent in ten prize which we give each agent when he has sent in ten new subsecriptions. Plan your work well, then send fin the coupon.

LADS' DEPT.

Farmer's Advocate \& Home Magazine, London, Ont. COUPON.
Lads Dept. Farmer's Advocate \& Home Magazine, London, Ont: I am anxious to carn good pocket money takikng subscrip-
tions for y your journal, and am willing to do my best at the work. Please send information.
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    HENDERSON FARMERS'

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    The Duchess of Devonshire is the one wearing the ermine coat. Lady Hendrie stands next that the Review, Toronto
    The Duchess of Devonshire is the one wearing the ermine coat. Lady Hendrie stands next to her. Behind are the Duke's daughters and Miss Hendrie.

