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Vol. LI
LONDÓO, ONTARIO, FEBRUARY 10, 1916.


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## EDITORIAL.

We had April in January. Let us hope that January will not demand its season in Apriil.
The farmer's duty is to take an interest in politics,
ut not to be married to any political party. but not to be married to any political party.

Organization is the strength of many institutions; it could be made the strength of agriculture.

Our first duty is to win the war, and in this, economic production at home must not be lost sight of.

And now the Kaiser proposes to release prisoners and force them to fight in his lines. Such crime and
folly!

It now appears that the young men of Britain, by enlisting voluntarily, will make the Compulsory Bill a
dead letter.

Sandy Fraser believes that the best way to get rid
of bad habits is to form and encourage good habits of bad habits is to form and encourage good habits
to take their place.

It is the plain duty of every municipality and every individual to give liberally to the Patriotic Fund
and to the Red Cross. and to the Red Cross.

Many a good farmer is not a successful manager. There is room for more training on this phase of agri culture in our agricultural colleges and schools.

Feeders tell us that it requires more care to keep the stock from going "off its feed" in a mild spell than in cold, snappy weather. Possibly a little more exercise
would improve their appetites when the weather is mild.

The Hon. Geo. E. Foster hit the mark squarely when in his recent Massey Hall address he advised efficiency in field and factory be not impaired too greatly.

Peter McArthur's advice in last week's issue should is going to colt is well to know what a patriotic concert putting on such an event if the cost is going to balance the receipts from a big gathering.
Canadians are tired of the talk of shirkers, slackers, etc., which some men past military age seem to like to can and will do better. It is a poor way to Canada enthusiasm to cast reflections. True, there are slackers, but there are hundreds of workers to every shirker. There is more inspiration in listening to an account of what the workers have accomplished than there is in
being bored to has not been done by a few who do not see their duty clearly and act accordingly

Charges of graft and misappropriation of public
funds, hurled back and forth from the benches in the House of Commons, should not be taken lightly by the voter, even though the charges are sometimes made for political reasons. Such charges should
always be investigated and the publich always be investigated and the public should know the
truth, and wherever crooked practices are exposed those responsible should suffer, no matter what their politics. Graft and money-grabbing should be driven out of
Canada, so that there would never be grounds for accusations such as we have heard in the past.
'Better Stock and More of It' "Better stock and more of it!" This was the object of all the live-stock meetings held in Toronto have done much to place Canadian live-stock meetings on the high plane it now occupies. All the leading live stock societies and associations. All the leading livemeetings last week had experienced a prosperous the The demand has been good and stockmen, with the exception of those overloaded with horses, with the good year. When we stop to think of it stockmen generally have a good year. We are glad that they were able to report a prosperous year 1915. However, none should feel satisfied unless he has contributed his share toward better stock and more of it. There is never too much of the best; there may be a surplus, at times, of the common and inferior class. Right now we hear a great deal about world shortages in beef and sheep, and about the great live-stock loss of Europe. Are our stockmen prepared or preparing to strengthen Canada's position? Read the reports of the meetings in this issue and be convinced. British stockmen see a boom ahead for good live stock. Canada should do a little "boosting" too, for there are in this country may be selected. Which the best of fored the best stock he can and then "boost." You know, the English stock breeder is said to be just beginning to find out that unless he "boosts" a little, Canada, United States, Argentina, New Zealand, etc., are going to get the trade, So much has the English breeder taken this to heart that the leading editorial in a recent issue of the "Live Stock Journal" was headed, "Stands England Where She Did?," and in it the writer made it plain that English stockmen must do a little "boosting" too. It is afe to "boost" when we have something worth while. Canadian stockmen have the goods and are endeavoring o improve them each year. Let us all be alive to conditions, advertise and "boost" the best business purposes but that which should do the buyer breeding

Opportunity and a Responsibility.
suffered in the past has been the lack of men who could go on the public platform and express their ideas clearly logically, and with such force that listeners were compelled to think hard upon the subject under discussion. in the country, our ablest platform orators were born early life, and there learned by early life, and there learned by experience to think on their feet. Now, most of Canada's intelligent young the questions of the can, and do, think deeply into the questions of the day. They have clear ideas on between themselves and their fellows conversation without fear or trembling; but, if called , they express the same ideas from the public platform, the ideas are gone and the only thing the young speaker can think about is how quickly he can get back to his seat. The art of public speaking is not the easiest thing in the world to master, but practice will work wonders. Any young man who is a good farmer, who readsand thinks, can make of himself a public speaker, if he thas the opportunity in his early life of getting the necessary practice in addressing meetings of one kind and another. And he can make the opportunity. We recently had the privilege of attending a banquet tendered by a Junior Farmers' Improvement Association, which has been doing a great work, not only in experimentation in farm work, but in practice in public speaking. At that meeting upwards of forty young men, every one a farmer and the son of a farmer, spoke-some for a minute, others for five minutes, and it was a treat to
see how well they had mastered themselves and could think on their feet and say what they thought. We venture to say that in a gathering of all the fathers of the boys not all could have been induced to get up father had not the opportunity that his son now has.

At the meeting were a few young men who had had some experience in a literary and debating society and some of these men, we venture to say, are the coming orators of Canada, if they keep up their practice. Every young man should accept every opportunity offered to get upon his feet and speak in public. Each time up
makes it easier next time. Never mind the nervousness and possible breakdowns. Some of the nervousness the world has ever seen are nervous hee deratore their messages, but the nervousness is overco confidence, which aids them to think as they go by They have mastered themselves. We have along. word to say for literary and debating societies, for Farmers' Clubs, for Junior Farmers' Improvement Organizations, and for all societies which train young men, and older men, too, to think and to speak. The young farmer has a duty to himself, to agriculture and to his country. He is the farmer of the future, He is the man who must in the-near future take an important part in the affairs of this country. He can and should prepare, and now. We would urge that 'every farming community organize some sort of society or club for the men and women, particularly the young men and young women, and so arrange meetings that all must take some part. Nothing will do more to promote good feeling, neighborliness and the right community spirit. Nothing would cause the young people to think more and study deeper. Nothing would so prepare our young people for the duties of their older life. Our young people must take more interest in politics-not in partyism, but in the affairs of state which directly affect them in their every-day life. It is their duty to help eliminate the grafter, to prepare to take their places in the affairs of municipality. Province, and Dominion. Canada needs young farmers who think and are prepared to vote as they think; not as the party leanings of "father" direct. In local societies, the young people give themselves the necessary start in
training. Nothing is more needed; few things are so training. Nothing is more needed; few things are.so invaluable. Begin now. What others have done you
can do. can do.

## Be Timely!

Procrastination is said to be the thief of time, and yet many people go through life showing by their actions that they consider it not wise to do to-day what can this doctrine is in evidence, and is farnter being always behind with is responsible for the farpser being always behind with his work, which leads There is a certain time when every and finally to failure. There is a certain time when every operation on the farm should and can be done. To-morrow always brings its
own work to require attention. During the
During the winter months, work is not usually rushing and there is plenty of time to have things ready for the busy days of seeding, when every hour
counts. Now is the time to break in the supposed to do its share of wreak in the colt that is using it at light work about the in the spring. By become toughened and the mouth hace, the shoulders thus putting the young animal in condition to the steady work when the time comes some farmers to get the seed srain ready before it is required to sow, consequently sood ready before it is be seeured, and an inferior sample must be alwaye resulting in a reduced yield at harvest be sown, rethe land is fit to work, no time should be lost the seed in the ground, as delay means dollars later on

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All through the year there are little things, which, if neglected, mean a loss in hard cash. One rail would several rails, besides the aggravation of having the atock tramp through the grain, and a few minutes no-day would destroy a new noxious weed in the field; neglected, its seed may spread over the whole farm and cause a good deal of trouble in its eradication, A weak place in the harness might be fixed with a few $\mathrm{m}_{\text {ight }}$ break and cause an accident. A to-morrow, it one of the farm implements could be replaced to-day when the implement is not in use; if left for to-morrow it might break and cause delay in a busy season. Time is money in every line of business. If the greatest
success would be attained on the farm, every part the farm equipment and the farmer himself must be efficient.

Now, before the rush of spring work starts, would ness to see if any repairs are required. Have the seed grain in readiness, and the horses in condition to make the most of time, when seeding starts. This spring, with that the farmer may work should be carefully planned utmost.

## Nature's Diary

The plant formation which we have now to con-
sider is that which is made up of the Sand Plants. As
was pointed out when dealing with the was pointed out when dealing with the various habitats, sand is physically dry, consequently we find among
these plants adaptations for conserving moisture of these adaptations is that of hairy leaves. A hair in
a dead structure and is filled with air, which is a a dead structure and is filled with air, which is a poor
conductor of heat, so that the surface of the leaf is
protected from the full effect of the sun's protected from the full effect of the sun's rays. The
hairs also are white and reflect light, so that the in-
tensity of the light reaching the tensity of the light reaching the surface of leaf is di-
minished. The hairs also further guard the leaf against
the effect of drying winds. So numerous on some of these plants as to o give them a woolly appear-
ance. Another adaptation is the possession of thick
leaves with species of Sand Plants the reduction of cells. In somes has gone
so far that the leaves have completely disappeared being represented only by spines, while the function of
the leaves has been taken over by the thick, fleshy
stems, as in the Cacti. In many of these plants the cuticle of the leaves is very heavy, thus protecting the underlying layers. A very interesting adaptation is
found in the grasses of this formation, the leaves of found in the grasses of this formation, the leaves of
which either fold lengthwise or roll laterally. The way in which these movements are brought about can be
understood from a study of Figs. 1 and 2 . In Fig. 1 understood from a study of Figs. 1 and 2. In Fig. 1
we have a cross-section of a grass leaf which folds. The stomata, as indicated, are on the inner side of the are two sets of cells, one set on each side of the midrib called the motor-cells. When the plant becomes dry these cells lose water and the leaf folds along the mid
rib, this bringing the inner surfaces of the leaf together rib, this bringing the inner surfaces of the leaf togethe
and protecting the stomata. In Fig. 2 we have a cross section of a grass-leaf which rolls up. The stomata are shown in the grooves, and at the bottom of the
grooves are the motor-cells, which, when they lose water, cause the sides of the grooves to close together and consequently the leaf rolls up. As can be seen
from the figure, which shows the leaf partially rolled, from the figure, which shows the leaf partially rolled, when the leaf is rolled up, the

## Fig. 1-A Folding Grass-leaf Expanded.

So far we have been discussing the conditions of Sand Plants as a whole, and we have seen that the
habitat in which they live is unfavorable enough. But some Sand Plants live in an even more severe environ-ment-on shifting sand dunes. In the case of sand
dunes not only do we have all the conditions of a very dry substratum, exposure to intense light and to strong substratum is either being eroded from round the This and rhizomes (root-stocks) of the plants or else piled
up around the plants. Which is taking plo up around the plants. Which is taking place depends, of course, on whether the plants are growing in a place
from which sand is being blown away or in a place to which sand is being transported.


Fig. 2-A Rolling Grass-leaf Partially Rolled Up. Among the dune plants we find not only the adapta-
tions which we have mentioned above, and which common to all Sand Plants, but we find the power rapid vertical elongation of stems, long, rapidly growing
rhizomes, and the perennial habit The firs rhizomes, and the perennial habit. The first adaptato those dune plants which are growing in places which sand is being caried; otherwise the plants would
soon be buried by the sand. The plater the plants a better hold on the The long rhizomes giv
stratum. The and shifting sub stratum. The perennial habit is far more advantag sub to dune plants than the annual habit because only at certain times, that is, during a rainy period, are the
conditions suitable for conditions suitable for the germination of seeds and Allo the shifting sand makes a very unfavorable bed
for the development of seedlings.

## THE HORSE.

## Feeding the Horse

## The past season was a particularly trying one on

 by a few weeks dry weather, caused the plowing to b extremely heavy work, especially in the plowing to beConsequently many horses were Clesh. The comparatively high price of reduced in made some farmersatively high price of fodder has horses in good flesh. It may cost a little in time and
feed to fit the horses, but once the flesh is feed to fit the horses, but once the flesh is put on the
horse will eat no more than, if as much as, when in a poor condition. Besides, there is more satisfaction in
working a well-fitted horse than in has more life and does the work easier, and is in condition
to command the highest to command the highest price should a prospective
buyer come around. Some horsemen appear to have
difficulty in fitind difficulty in fitting their horses, while others find it no
trouble. Possibly the than the feed. The skill of the feeder the care more
very life of the grain or hay in orse does not require heavy feeding of it is believed that many horses are injured by over-
feeding with hay. The ammount that will be cleaned
in in one hour and a half is sufficient. It is no cruelty
to the animal to have him stand in thed hours each forenoon and afternoon without having hay
to eat. The digestive system requires a rest. The
feeder must use his judgment regarding the amount
grain to feed. A rule, which appears quite safe, is to
feed one quart of oats daily to each 100 pounds of horse, when on ordinary work, the amount of grain to be reduced for the idle horse. Once or twice a week
boiled oats, to which has been added a handful of flax seed, may be fed quite profitably. Carrots, turnips? or mangels may be fed each day and will assist in keeping the animal's system in good working order. The eeder must study and know the animal he is feeding:

## Lameness in Horses, VIII. SWEENEY.

Sweeney or Shoulder Slip consists in a sprain, ollowed by atrophy or a wasting away of the muscles blade. In severe cases the shoulder joint (the bones of which are held together simply by a capsular ligament there being no lateral ligaments) appears to slip out and in to a greater or less extent at each step; hence
the name, shoulder slip. This lameness is noticed the name, shoulder slip. This lameness is noticed
principally in the young horses that are put to work on soft or uneven ground, and especially in young horses that are worked in the furrow to the plow. The horse, place the near foot upon the land, while the off foot is placed in the furrow, and this uneven treading tends to sprain the muscles mentioned, and the bones of the joint, being practically held in position by muscles, will, when these muscles have wasted away to a con Symptoms.- Lameness in the early stages is not well marked; in fact, no lameness may be noticed. The earliest symptoms noticeable are heat and swelling shrinking of them. In many cases there being an absence of lameness, the mwelling escapes there being an
shoulder shoulder blade or scapula is a flat, triangular bone placed upon the ribs and held in place by muscular of bone running from above downwards, almost the whole length of the bone. This ridge is called the spine of the scapula. It divides the scapula into two unequal parts, about one-third in front of and two-thirds the skin, in the healthy animal, is not visible, as the muscles on each side are of sufficient size to make the
surface practically smooth; but when surface practically smooth; but when the muscles
become atrophied, it is quite visible as a ridge running become atrophied, it is quite visible as a ridge running
from above downwards, with a more or less well-marked hollow on each side. The skin appears to the touch
to be quite close to the bone, but there is an absence of heat or soreness to pressure. Inflammatory action has become allayed, and as a consequence swelling has muscles, have become a result of the inflammation, the When the muscles passing over the joint have been and out of the jave become atrophied, the slipping in able, but in a large percentage of cases these muscles are not involved. Lameness is not pronounced except in cases where this slipping is present. Action is defec-
tive, but it is not probable that the patient suffers pein tive, but it is not probable that the patient suffers pain.
The lessening of muscular fibre renders the patient unable to use the limb properly. The limb is brought Iess difficulty is istary motion of the foot, and more or less difficulty is experienced in lifting the foot over
obstacles. The animal stands sound and except in the early. stages there is no heat or tenderness to pressure. As the disease progresses, the pecularity of action and the wasting of the muscles become more marked, and is sometimes noticed. Horses affected with sweeney in an ordinary degree progress with considerable ease on the level ground, but on soft or uneven ground the Treatment is slow
effect a cure in a well-marked case. Treatment the to be directed to cause a reproduction of muscular tissuse so reduced in size and strength ther, but have become so reduced in size and strength that the muscles are
unable to perform their functions. It is better to give the patient absolute rest; but, at all events, he must not be used on soft or uneven ground, and should not While a little light work on hard, level ground may be given without danger of serious results, recovery will be quicker if he be given rest. In order to cause a reproset up the muscular elements, it is necessary to set up, and keep up, a local irritation. Different tending from the top to the bottom of the shrunken Some recoth in front of and behind the scapular spine. or a smooth stick often repeated friction with the hand tion of a strong stimulating liniment the daily applicarepeated blistering. Probably better results are obment. The ordinars than from other modes of treateant. The ordinary paste blister, made of two drams with two ounces vaseline or lard catharides, mixed The hair should be clipped off the surface of the shrunkenmuscles with a slight addition all around of the sound a blister depends greatly upon rubed in. The effect of In order to get well-marked results it must be well rubbed in with smart friction. The animal must now with his mouth, else he will get his nose listered surface blistered, and possibly tear the skin off the blistered parts. In 24 hours the blister should be again well rubbed in, and in 24 hours longer the parts should be
well rubbed with sweet oil or fresh lard em in good working order. The
and know the animal he is feeding.

## ess in Horses, VIII

SW
 ases the shoulder joint (the bones of ether simply by a capsular ligament eral ligaments) appears to slip out oung horses that are put to work on
und, and especially in young horses the furrow to the plow. The horse,
ned to such work will. ned to such work, will frequently upon the land, while the W, and this uneven treading tends
les mentioned, and the bones of the cally held in position by muscles,
uscle uscles have wasted away
ow the slippery action noted
Lamenes in Lameness in the early stages is not ms noticeable are hay be noticed. In many cases by a wasting or scapula is a flat bs and held in place by muscular e outer side of the bone is a ridge ome. This ridge is called the spine
bone.
divides the divides the scapula into two un-
one-third in front of and two-thirds ne, while easily felt just underneath
althy e are of sul, is not visible, as the smooth; bufficient size to make the is quite visible as a ridge running
ds, with a more or less well-marked The skin appears to the touch to pressure. Inflammatory action
and as a consequence swelling has result of the inflammation, the passing ove or lessened in bulk. become atrophied, the slipping in during progression is suipping in percentage of cases these muscles lipping is present pronounced except obable that the patient suffers pain uscular fibre renders the patient
nb properly. The limb is brought y motion of the foot, and more or perienced in lifting the foot over is no heat or tenderness to pressure. esses, the pecularity of action and iderable trouble in progressing Horses affected with sweeney it on soff or uneven ground the It requires. W. It requires several months to a reproduction of muscular tissue. ts are still there, but have become nd strength that the muscles are
their functions. It is better to ute rest; but, at all events, he must or uneven ground, and should not work on ground of any nature. serious, results, recovery will be elements, it is necessary to a local irritation. Different o the bottom of the shrunken in repeated friction with the hand me recommend the daily applica-
ulating liniment and some favor ulating liniment and some favor
Probably better results are obthan from other modes of treat-
paste blister, made of two drams mercury and catharides, mixed d off the surface of the shrunkendition all around of the sound
well rubbed in. The effect of upon the manner of application. n. The animal must now
now
and in get his nose, lisp and mouth. blister should be again well hours longer the parts should be
oil or fresh lard. He may now

FEBRUARY 10, 1916
be turned loose into a box stall, and the parts oiled
every day until the scale comes off, when he should tied and the blister again applied as.at first. After this the parts should be blistered every 4 or 5 weeks, and practice to use friction by hand-rubbing, or the occasional application of a strong liniment. The length of time required to effect a cure varies in different cases. Any may be necessary, but treatment should be continued,
matil the muscles have regaineta heiweor hormal bulk and
unt until the muscles have regained theitmormal bulk a
tone.
WHIP.

## LIVE STOCK.

## The Angus Breed's Triumphs.

 in Britain have again afforded striking proot sot of the
superiority of the Aberdeen-Angus breed, and crosses superiority or the Aberdeen-Angus breed, and crosses
of that breed, over all other breeds, as regards the of that breed, over all other breeds, as regards the
production of the best type of beef cattle. The success with which the breed is employed for crossing purposes,
wis winess the crooss-bred classes at all the as witness the crosi-bred classes at all the important
Fat Stock Shows, is leading to a more general use of sires of this breed, for not only aré cattle of Aberdeen the Fat Stock Shows, but in the ordinary cattle markets they proclaim their superiority by the enhanced prices Of recent years no bred has establierhed such
record at the leading Fat Stock Shows as has the deen-Angus. Take Smithfield, for instance, than Abertwenty years the Aberdeen-Angus. has won the the past pionship of that great Fat Stock Show won frequentlya as
all the other breeds of cattle combined the show as regards the championship for the past

## Aberdeen-Angus................................ $\begin{gathered}\text { Championships } \\ 10\end{gathered}$

 ShorthornHereford

This record is excellent by the breed's performances,
udded by the even more critical test of the carcase as juded by the even more criticar test of the carcase
competition in connection with the London Smithfield
Club Club, where Aberdeen-Angus and crosses of the breed
have had a very large measure of sucess. O 隹 period of a verteny large measure of success. Over
petition as affecting petition as affecting the different breed for which
classes are provided at Smithfield Show are asfollows:

| eed | Champion. | Reserve |
| :---: | :---: | :---: |
|  |  | hampion |
| Sussex... | 0 | 1 |

Welsh...........
Highland
Cross

Equally eloquent is the record of the Aberdeen
Angus breed at the Scottish National Fat Stock Show Angus breed at the Scottish National Fat Stock Show,
as shown by the roll of honor since the shows were
instituted nineteen years ago.

## Aberdeen-Angus............................

The shows during the 1915 season were again fewe heifer won the female championship and also the cham pionship of the show, while a pure-bred steer of the
breed was reserve for the best steer. At Smithfield Show an Aberdeen-Angus was reserve for the best yearling steer, and a heifer won reserve for the best
heifer under two as the best heifer under two years of age, while another Aberdeen
Angus won the prize as the best steer in Angus won the prize as the best steer in the show. A
heifer won reserve for the female championship, and the breed had also the reserve for the championship of ship was won by a purce-bred Aberdeen-Ane champion That the breed was reserve shown by the fact that of the fifty-four animals cross was in the various classes for cross-breds, Aberdeen-Angus lines of breeding appeared in forty-five cases, the next
in order being Shorthorns, which had been used in the
breeding in order being Shorthorns, which had been used in the
breeding of thirty-nine of the animals. At Aberdeen the championship was won by an
days been-Angus yearling heifer, which had, a couple of days before, won similar honors at Forres, and the
reserve champion was another yearling heifer, bred
three-parts three-parts to Aberdeen-Angus blood. The best breer
was a two-year-old blue-grey cross of the bred best butchers' animal was a yearling, also largely bred to Aberdeen-Angus blood. Similarly, at the Scottish
National Show at Edinburgh, a two-year-old AberdeenAngus heifer won the supreme championship of the
show, and a black polled cross of the breed was reserve The best animal under two years of age and the reserve. and the best steer in the show was a cross-bred by an
Aberdeen-Angus sire.

[^0]To Remove Afterbirth
A subscriber writes that he has found the following Ground aise termoval of alterbirth in cows: dise, 2 ozs. sulphe 4 ozs.; ground grains of para 1 quart. Give thin a little. Repeat in 36 hours if necessary. He say would alway cows retain afterbirth for several days, but this treatment and fight when properly cared for wit whereas, when removed by hand they ars much better than half what they should often not had things been normal. Have had in have been give as many as four doses, but will generally yield to ${ }^{\text {two o doses. }}$.
o., Ont.

## SUBSCRIBER.

Note.-We pass this on for what it is worth. Our that the Veterinary profession has nothin frankly admit for removing the afterbirth excepting by hand. He says
the drugs na med would have no the drugs named would have no effect upon the uterus.

## Sulphur and Salt for Vermin.

 and salt subscriber advises mixing equal parts of sulphur sheep haveacther and keeping it in a box where the He says it will kill lice on cattle as a remedy for ticks Another Writrs as Fonows20th In reading The Farmer's Advocate of January winter. It have had good success in mixinep ticks sulphr
and salt, say two-thirds salt and one-third sulphur,


## Stout Hearts Will Win.

## Canadian Farmer-"Go rike the freeman's blow.

and keeping it in the pen where they can have access
to it at all times. I might also say I tried sulphur alone on a litter of nigs that were very bad with lice
this fall. I gave m two handfulls of sulphur in their trough every coner day before putting their regular hem and could find no lice on them at all. I I also put little every other day on the silage when I mix the straw with it for the cattle. ERNEST A. LETTS.
Manitoulin District, Ont.

To the credit of our transportation companies and o the vigilance of the British fleet, be it said, that a 121,993, have been transported overseas, and 225,000 ave been carried by our railways with only one fatality

## THE FARM.

## Another Objection to Higher

 Licenses.Editor "The Farmer's Advoc

able increase in automobile minion of the prob heartily agree with your correspondent fices. issue of your most useful farna magazine. Who is the farmer car owner or prospective owner in
the Dominion to-day who would not? absurd thing as to even propose an increase in license fees is sufficient to propose an increase in temper of the best-natured men. During the past ten years automobile engineers an'ld manu the rough designing ang simpletor car out creasing efforts, till at last first cost with in keep have so diminished that the average farme is a come to the conclusion that the motor-ce is a good thing in which to invest a little have met with such success that their product has been brought within reach of the farmer, with the result that 1915 was known as 'the farmer's motor-car year, our government to all appear-
ances, sees fit to impose upon these well rights and re-erect the barrier between the farved and the car, the barrier which the motor-car manufacturer has been so successful in teuring privilege to make this addition steeply for the ments; and also for the right to h's farm equipthat by giving his own time, muscle and money have been put into such a condition that motoring on them has been the hobby of city and With the coming up of the sel


## our best here while you

 It is an established fact that the majo city and townsfolk who operate cars outside the cify and town limits are mese pleasure seekers. Their business does not demand that they should ramble aimlessly a\},out the country, and what is day when their speeding will do the a dry, hot most damage, and subject the farmers along the roadside to a first-class dust rath. $\quad$ Must the ma these pleasure seekers, while hot the same bill as these pleasure seekers, whilie his car sits in thedrive shed instead of being raced along the road, sucking the life-blood out of his statute tabor and laying it waste over the fields, choking and blighting his crops ?
obstacle which thousands of farmers would not feel able to surmount. Now is the time to pro test andd ofjject in earnest to such a ridiculous


Si20 \begin{tabular}{c}

| Root |
| :---: |
| $c<22 d r$ |
| $16^{\prime} \times 25^{\circ}$ | <br>

Approach <br>
$30^{\circ} \times 30^{\circ}$
\end{tabular}

Plan No. 1-A Wentworth County Barn.


Plan No. 2-A Glengarry County Barn.
with the city pleasure seekers or those of smaller in the alley, as shown, across this allef. Fresh plenty of box-stall room for the average barn, towns who can stand and should be subjected to air is admitted through the ventilators marked and the cattle stalls permit of tying up thiry,
the propsed increase, it is high time they were $V$ on the plan. Large ventilating pipes extend head of cattle. The feed room and
introduced to the round-mouthed shovel. introduced to the round-mouthed shovel. Bruce Co., Ont.

## A Few Good Barn Plans.

In this issue we are publishing four barn
plans, the details in regard to which are fairly well indicated on the plans themselve
Plan No. 1 shows a Wentworth County barn,
owned by Silas Echlin. equipped structure, 44 by 74 feet in the main with a root cellar under the barn approach, and a drive shed conveniently situated, with a milk-
room in one corner, away from the stable but room in one corner, away from the stable but under the barn approach, is an engine rooin 6 feet by 13 feet with a water'tank at one end. Dimenstons are placed on the plan, and from it
readers may be able to get some ideas for imreaders may be able to get some ideas for im-
proving their old buildings or for planning new. Plan No. 2 shows a very complete barn indeed. It is one submitted to this office a year ago and our subscriber neglected to put his name the others. The barn is a Glengarry county structure, and some of the partacular features to notice are that the litter carrier track approach. The owner dumps the manure from the carrier directly into the wagon or sleigh and it is drawn to the field limmediately. oot bin is shown under the barn floor, where During the summer the boards from this ar ar taken down, leaving a place for green crops t be stored before feeding. It will be noticed also that two silos are provided, one for summer us
and the larger one for winter. The cattle are watered in the stable, but are let out for ex ercise on favorable days. A tap is provldet to whut off the water in the tank, so that cold Water may be pumped directly to the tank for milk cans, situated as shown on the plan, just

to the right of the silo enclosure. A movable pipe carrles the water from the pump situated from within three feet of the floor of the stable silo are not very convenient to the root bins, but through the roof. These have side doors open- on the whole Mr. McBain has found this a satis| down behind the cattle. This barn is worthy of factory plan for his remodelled barn, 48 by 77 |
| :--- |
| 7 |



SILO Plan No. 3-A Remodelled Barncounty, New Bruns wick. This is a very complete plan, and should interest some require a large barn. The barn is equlipper wit $h$ stanchions, manure carriers, etc. It is on a concrete in the photograph, and the stables hold 27 head of cattle in the stanchions, with a large number of
box stalls for calves. A big root cellar is provided. The barn s used particularly or fattening cattle, raised in the box
some study, and we hope readers will be able to get some good ideas from
it. McBain, of Glengarry County owned by J. W shows what may be accomplished in the making over of an old barn. The root bins, as shown on the plan, are directly underneath the drive floors of the barn, so that the roots may be or
dumped from a dump box into thess. There is tion year. The barn has pllenty of light,
and the King system' of ventilation, which was described in a recent issue of this paper, is used throughout.
We hope these plans will be of some use to our
readers in their work in conne eaders in their work in conneotion with plant reader who has a particularly good plan of house barn is invited to send it to us for publica-


What About the Future of the Winter Fair?
Edtor "The Farmer's Advocate
The crowded condition of the last Winter Fair
held at Guelph, Ont., was held at Guelph, Ont., was proof positive that it is
scarcely possible to expand it any further acarcely possible to expand it any further under
the presenf conditions. Indeed, the exhli hit that enclosed in the buildings at that show would have made a much grander sight if it could have been
spread out, saying nothing of the great numbers spread out, saying nothing of the great numbers
of horses that were stabled around the city. No doubt something should be done, and that very soon, to accommodate the growing needs of this
great educator. Some, no doubr, will say, wait until the war is over and business becomes afford to relax our energies even that we can business that plays such an important part in
the feeding of the millions and in mreeting the war debt of our land. Possibly property can
still be procured for increasing the statle modation, but if that were done would things be
satisfactory? I submit that they would not. satisfactory? I submit that they would
The present arena and soating capacity is The present arena. and ssating capacity is far
from satisfactory now. What would it be when
the Fair expands one-half more, which it will in a very few years if it is not retarded, judging
from the way it has grown in past years. I think that the Provincial Department Agriculture has this problem to meet, tin the best
intcrests of the Province, and I believe the sooner
the better; and I further believe the everyone who has the best interests of the enlucative value, of this show at heart, believes it
should remain closely allied with the Ontari Agricultural College. My proposition would be,
to make the best possible arrangen city oo Guelph, re the old building, and then erect
a building worthy of the industries that it repre sents, on the College farm, liz., on the northeast point to the city. The very first saving would
be many thousands of dollars that a suitable site elsewhere would cost, and ground would alway be availa
the show demanded. This building could ponsion of be made a sourc3 of ravenue in connsction with
the College if taken in time. It seams that the first thought that strikes people who the College site would we too far from Rast is that Hotels, etc. To such I would say we must make up our minds that we must leave the pres-
sent site very soon, because it cannot be made adequate. Where is there another site more con venient? Where can one be supplied more
cheaply, within 20 minutes walk of Hotels and
Railways? Railways? The only other place that seems ether site, vizu., Queen's Park or the wher
Stock Yards, is 30 Thion from hotel accommodation. The present car
lines to the College could be arranged to handle all frelght as well as visitors, and if this
matter were taken hold of soof, perhaps the pro-
posed Hydro both passengers and freight right on the spot.
Middlesex Co., Ont.
R. H. HARDING.

## Adds Plenty of Water to Dry Corn.

 I thought perhaps the results of our experi-ence in putting corn into silos, under different
conditions, might readers. We have a large-size silage of your your our own use in partnership with one of our neigh-
bors, and we filled eight silos besides our own
two put 'through the maition in which the corn was condtiong thich machine varied greatly, but the
ferent cut before as it follows: The corn for one silo was
creas frosted, while it was quite green. The corn for our own silo was slightly
rosted, and was advanced to mature stage in
, in fact, we saved something like three hundrede; ears
for seed, which has been tested and found to
to
 having filled the silo, and heft standing there un-
til two weeks ago, when it was put into the lo one fine day, filling the upper 16 feet. Two untilit was quite badly frosted and was allowed with this dite dry. These two slos were filled
and corn about the middle of October, water. They thlom the sillo owneres used some water to run into the machine and was blown up watith the corn, and
just hiere is whe where we think we learned some-
thing. thing. In both casse they allowed about a
quarter inch stream to tuy in with the corn, and
bofore we filled our silo, a couple of weeks ago.
we found and we found out that in no nither cass was there
enough water put with the Very moldy and too dry to make good silatie.
time We started filling our own silo the last time, our corn was just as dry awn stat of ef either
of these others. We filled our water tank and

## THE FARMER'S ADVOCATE

tion, and atteached a a garden hose gith a the eleva-
the end, and while the machine was running we put a full halt inch stream machine was running we
blew it is coming out in grand condition. A result our silter fillige
the of course, for a few days, while feeding at all. making, it was very warm and a little mouldy but not a dry mould like the others, and the
cattle have eaten all of what was without any ill results so far; and now the was the least bit dry into were putting carn viat put plenty of water with it. We see no difier-
ence in the silage made from dry tured and corn freshly y cut and put into well ma-
the silo before being dried out. cut and put into the sill
in
in ooth cose quality of the silage in both cases seems to be about the same. the results of the experiments carried on at as againgt planting in the sowing of corn in rows
have taken to
Our idea that we have taken so far from your experiment is that
we should sow corn that will we should sow corn that will mature, and sow it sow it in rows so so as to get the tonnage, and
thoug it so tit will mature, and even though it does not have the ears it it will have even
same the
feeding value in a more dilesthat than if the ears were in evidence, Is this right?
Northumberland Co., Ont. B. ARMSTRONG [Note-We would draw our correspondent's at tenurion to articles in our issue of Jan. 27 , in
which We attempt to further explain thick-sown corn. By all means plant early-maturin 3 vari-
ties if trying this experiment. We tien if trying this experiment. We do on ot-clatm
that the thick-sowri is more digestible than the
hill hill-planted, althoug it may be. our analysis feoding value. $\begin{aligned} & \text { nearly equal to hill-planted in } \\ & \text { But the thick }\end{aligned}$ yielded almost double the thick wown last year
Editor.


## A Big Barn. <br> Barn of Morris Scovil, shown in plan 4, this issue.

## How Was It Done?

## The Farmer's Advocate"

the winner in in a recent issue of your paper tha Free Course at Guelph, grew 154 bushels of stelled corn to the acre. At same percentage figured their amount of shelled corn, thi Guelph man had 221 bushels of ears, which this young
matd mean
a large ear of corn on each a large ear of corn on each of four stalks tn
every hill on the acre. We, who have grown to be free from a.t. large percentage impossible stalks, and Government experiments of bhow that
four, or fewer. stalk of ears. It loonsalk will give the larger yneld been made in this case. I would mistank has good judgment should teach editors and Governmand their at that a case of this kind should degrown this enormous crop with a a cost of he has this competition, but understand that governing acre shall be paid as rent, and 15 c3nts an hour labor. Allowing $\$ 1.75$ for plowing an acre, and
$\$ 1.75$ and $\$ 1.75$ for fitting it for planting, and 82 cents if correct, is a very large crop to grow without it could not be curt. If this corn is to be cut it could not be cut for less than $\$ 2.00$, and if it
is to be husied and cribbed it could done for the whole amount, $\$ 12.32$. I have heard has sou could give your readers a y yittle more
nitarmation Ess 2x Co., Ont. Note-We can give no further information on
the acre-proit competition. We published ress 1 It
as sint us by those in charge as sunt us by those in charge of the competition.
and are not responsible for them. Corn was the only crop which seemed to give phenomenal
returns 0 ther crops, as oats and mangels, gave
very high retural


loft out in some of the figuring. We published
the results as a matter of agricultural sent out by the Department. If there is any as.
planation required those planation required those in charge of the any exp-
ments are fnvited to make it through these ments are Invited to make it through
columns.
It Editor.]

## Never Buy Till Needed.

## Editor "The Farmer's Advocate"

"Editorial", much pleasure from reading the Editorial pages of your valuable paadng the
ing many instructive and timely hints theref-
but I talke excaple but Itake exception to the motto as emphasized Union, vazactical farmer at the Experimental
Now, for instance, let us take our clover and Must we walt, till we need these our seed corn can we test our clovers for purity and germina
tion ing the grain and corn. need these the rush and hustle at seeding till we
will turn ${ }_{\text {and }}^{\text {acts }}$, and our minds from these all important acts, and the results will probably not be nearls
so satisfactory as though the done at a less busy time. Also, time will not
permit of our buying the permit of our buying the most econownical way,
the price will probably be higher much poorer chance of getting what we run a The writer makes a practice of what we want. quired. months before seeding, all the seed hand. advantage of the toubt as. to any seed we take or purityoratory, Ottawa, sind offered from the habit formed will seldom be both, and such . Probably what this prectical farmer
mind when he mat mlnd when he made this procical starmer had in
regard to buying ferment was io regard to buying farm machinery. Natem was it
a bit of advice regrer a bit of advice regarding this
piece of farm Nachinery from an aner bufter
thrount through the country. Whem an agent travelisn ${ }^{\text {let }}$ him leave you literature regardidual calli prices, terms, etc. If you think you need it,
then et your leisure you tan pamphlets, compare his you can look over hite
with other standard machine, prices, etc. you (not any gent) makes, and then buy what

A Letter from the Trenches "Farmer's Advocate" readers will be interested
In the following letter, written by Captain C, F
Mcomen crewinen, son of Lieut.-Col. Robert McEwen, Fo prominent live-stock breider of Middcesex Co
Ont. Captain McEwen is at the front with
 at two Canadian papers, one of themorded raillery.
er's Ad rocate," shows the spirit of "The Farm. er's Adrocate,", shows the spirit of the Canadian
lads on the firing line. The same tocular spirit
 Imagine wo see the boys eagerly grabbing papara
frog home. The letter was' written to Captain
McFiwen, sion McEwen's sister, and after acknowledging the rereferences to personal matters, and and besides McEwen's brother, Allan, who is and to Captain 10th Field Battery, also at the front, It reads:
'It was interesting to get a Farmer's Advocet again and note that the Advertisement is stocato running a f full inch, having been promoted trom
among the sheen among the sheop ads. to those of promoted from
time this war is time this war is over, and business realiy starte
again, Dad will have everyone who Farmor's Advocate,", persuaded that readl the maturing sheep are the only kind to make mone: out of, and after that just suggesting
downs will soutb"It is so refreshing to ongain see the dry humo agricultural journal, I never Canaca's leading humorous before. About December, along would come all kinds of advice alout getting ready for keep your stables wentiliated Dunding January you more windows, also get up a little firewting in the good wife. In Fetruary you start an elabor about Aook-keeping system, which you let attend live-stock coursea, ind drop
abo
polking poking more light in the bitock courses, and keep
you always have your thing March you always have your memory jogged to to harch the harrows, and send them down to the black.
smith to be sharpened lecting a pile of old bricks to to rub the duet of start to cut down the plough. You should now and try pitching ${ }^{2}$ the heavy winter's reading, the spring's work Also rub arden yourself for water on your shoulders to toughen the and weather. If you find this a in the warm, spring
your horses. your horses. Try and get a little imore sunshine the old blue-grey in good humor . The kinding you placed on the north side of the barn earlior n the winter, when you had forlgotten about the Weldwourd we found that to the south. At made them cleaner, hut washing the windows
hardly a safe gulde we would not advise it un- very much as though it has been playing aero-
tii we have had the experience of more of our plane, or at least the engine part of it. I went readers. The little quotations I have made will whow you the information I got out of the frrst
column of the paper, so you will know I have volumn of the paper, so you will know I have
expanded mentally after going through the whole oxpanded mentally atter going through the whole
1 canair. can remember when I used to read all that. Iood advie and vow that I would start
tright in to improve conditions. I even once read right in to improve conditions. I I ven orce read
hail way through the reports of Farmers' Insti-
tutes tor the Provice tutes for the Province of Ontario 1 Do you re
member along about June when some of us would scour the country at nipht to get a skeveloton squadron to go to camp, how sweet-tempered some of our dear 'Advocate's articles made me. weeks at camp would be induced to write about It. Some sharp-tongued female peaco-advocate
would be turned loose on the ooldier in the next Would be turned loose on the sot corvinced that eternal peace was assured after she got through,
certainly took $a$ very small view of the matter. of courge, anyone can tell from the patriotic tone of the edilitorials in our paper now that the
editors, at least, were of a most war-like nature, ebut those articles had to we published to show the dangerous lethargy into which the country was falling.
"And then I have ahead of me a full evening's entertainment in the good old Family Herald. No
matter what course in life you take you will find something to interest you in this weekly edition. If there is not a department in the paper just along your line, you can always read someone
else's and fand it sufficiently interesting. No trong views of any kind are forced on you. Yo are provided d with amusement and entertainment
of a kind that you can recommend to your wife's of a kind
relations.
"Take the 'Practical Agriculturist' portion, You get a nice range of topics: artifcial fert Hoer growing turnip seed, leat hoppers (and why
they do it) and the Alk all lands of the West they do it) and the Alk alli lands of the West
None of theee are gone into too deenly, tel sutts the farmer who knows that he runs int theoub if he goes into the whys and wherefore of the case. The city man reads the article and grasps the whole thing; rit tickles him to know
that good agroasp an the sctuance of eagriculture as have解 Me a very plausible article on "Swiss Farming Methods.' It ends this way 'Swiss trift, if
once established in Canada and the United would revolutionize agriculture.' Now anybod knows that the only things that are really farmed in that bunch of crags are tourists. Anyone who to, to keen from sliding of have to til yoursel make a living. I will admit that they must know how to breed goats in that country, and they must be whales to milk. I think climbing around the mountains possibly hardens them
down until they give condensed milk that eapily shipped, because $\operatorname{Swiss}$ milk chocolate is made every where.
"What interests me is to know how many
Canadian farmers want to be thrifty like Swiss or German or Belgian farmers. The next time some well-paid olticial farmees. Tuch a hit with time
government, that they send him ditions, and he comes back and says be thrifty like a Belpian, he is going to lose one of ifke a horse, contented like a cow, and have a healthy appetite like a apig. a Don, and have a
anyone tell you that the Eurore let anyone tell you that the European yourmer is
a higher grade of intelligence than is the Ca adian, because they infer, when they say that,
that they are better farmers that they are better farmers. When say that,
amount of brains Canadians put ine present amount of brains Canadians put in their work
when Ontario is as thickly populated as part of Europe, it will be better cultivated. But
when they have been at it as lot ilkely get into ruts and make class distinctions the same as has been done over here. This brings do his work and use a minimum a man to brains. ${ }^{\text {I }}$. will be 'busted' if I know why I started to fevor you with a light criticism of two of our
leading papers. I had a whole lot of thing about Christmas that I wanted to toll you in ing worst way. I think a fellow gets in a rather critical mood over here sometimess and a is usther
waiting for a chance to show what a capalle waiting for a chance to show what a capable
man ho would make et someone else's job. He
even foryets semen even forgets sometimes that there sis not such a
wide difference between a critic and a and that very few of us would qualify for the home a few had a nice, quitet morning lringing
back at the stationt remounts. Whill I was back at the station I incidently looked up was flying corps for the use of been attached to the ne with a beautiful girth geall, and all loound
litlle tough.
Our men
men When one of those fellows getsere or ornplain tha
mediately thinks ho horso he hat meaiately thinks he has his hands on the levers
again, and when the horse comes in it looks with the flying sheds and gently remonstrated with the young officer who had charge of the
horse end of the corps, and think conditions will improve. The young chap really meant to do nce best he could but he had been in the artillery horse wise.
"There was mithty Christmas in no man's land and Mr. Boash this not expect many more until this war is finished leave . being away in England for eight days sponsibility, of course, loaded me down with re soft food, but I do not sleep hardly nighte, except from nine until six. Christmas different particularly busy day. Our men had five different dinners at various places during. the duty of gofing around to see that the painful in good humor. I started at one overyone was afternoon, and wound up at this billet at ten at night. 1 was unfortunate enough at two places and had to help out see the eats still going, now what started the rumor that those ships coming across the Channel loaded with Christmas pudding had gone down. Anyway, we had some stables, and kitchensere in huts, lofts of cow equally good everywhere, and thire was plenty to eat. I managed to diz up some toys in a town near here, and gave them to the little refugee
mother here for her three childre of a variety that her three children. They were for about half an hour, but. these young kid thought they were wonderful. Christmas morning these little kids came in and each presented me with a little spric of holly tled up in a plece guesss, and the smallest kot the ribbon I cannot but he got there with his presentation just the


## Plus Inka Artis

billet ontrast this with the old woman here in the them results and a bottle of champagneeten up with a cake
she would distribute thought at least bottle for the firmute the cake and uncork the races it in and sticks at Christmas, but rio, she can keep it, I suppose, as an iron ration. She may have had her reasons, of course, for not eat ing the cake, but I am not saying whose it was, required mo much nerve to to me as though it ever, is just one of the many little habits one would acquire in being thrifty like a a Belgia

## Sditor Small Sillos.

Editor "'The Farmer's Advoce
paper I noticed aver last week's issue of your and noticed that youquiry about simall silos,
less than adight foet in diame making one are right, but it reminded me that Perhaps you four (44) a who claimed to have paper, given silace perfectly. it do not rememiner whe keepling you thinking it miteht was huilt. I am writing as I am thinking of a small silo to subject myself. whercrilen cors.:

Holstein bull call, and champion at the Guelph Winter Fair,
1915, for S. Lemon \& Sons, Lynden, Ont.

## THE DAIRY

Cream_Substitute for Feeding Calves.
Whole milik is a balanced ration in itself for weaned from whole consequently when a calt is skim-milk, the ration hecomes one-sided. o have the young animal grow as rapidy possible, some feed should be substituted for the hay makes splendid roughage, And should bla alfa plied the calt as soon as it will coumence suping. These feeds are rich in protein, which eatto build up the animal body, but they do not
end to balance the ration when sixim-milk Dats form almest ration when sisim-milk tis fed. sidered an excellent feed for any young antmal When it comes to suplying the fat removed from nd emik, a mixture of four pounds rolled oats of corn meal, in equal proportion to one pound
ofround flaxseed has With careful attention as to aplendid results. feeding skim-milk at the proper temperature, in clean, utensils, along with the foads mentioned, calves have been ralsed more economicaily and
almost as well as when receiving whole milk.

Summer Care of a Winning Herd. factories andeavor to encourage patrons of cheese their cows, so that they will produce the Dairymen's Association offers prizes earn Ontario the patrons who furnish the largest amount to milk per cow to any cheese factory in Western Ontario, from the first of May to the thirty-firgt
of October. In amount of butter-fat care of the creamery the than the amount of milk.
 Sparta, were successful in winning
first place with
their grade Shorthorn and Holstein cows. produce all the proughe and and $t$ tio
bulk of the concentrates fed on their 190-acre farm. Dur${ }^{\text {ing }}$ the six month, averaged $7,175 \mathrm{TD}$.
of milk per coow This is an ex: ceptionally good
yield, and goes to show that
cows, as wade
well as pure-breds, can be produce large quai-
prities of milk. Thim firm's methodof leeding and breeding, may not be some dairymen be-
lieve to lieve to be correct,
but it has given

Only high-producing cows are kept on this
farm; a careful weeding out of unprepiter farm; a careful weeding out of unprotitable on thim
takes place each year, and their takes place each year, and their places are filled
with producers. Mr. Burton \& Son calves, but depend on buying cows to keep their
stables filled. stables filled. As they seldom have to pay more than ninety dollars for a cow, it is considered The aim is to have the cows than raise them spring. A bran mash the cows freshen in the days after freshening to bring them to a fow milk. Bran and corn chop with sugar toets, and
all the roughage the cows will ration. The cows the cows will eat make up the until about the twenty-fourth of May the stable to give the pasture a start so it will last through the season. For the first week or two on pasture the cows are fed grain, butt once they get accustomed to grass the grain, feed is discon-
tinued unt11 about the middle of July or first of
August ${ }_{t}$ twice a when two quarts of bran is fed each cow chop is added Abount the first of October oat intil the end of the season, and three quarts fed is fed during the summer, but an endeavor fieed hade to move the cows from one field to to ather every few days. This method keeps the
nasture fresher than nasture fresher than where cows are kept in one to have the cows dry up about the first aim and cive them six weeks or the first of the

FOUNDED 1866

## DAIRY．

## stitute for Feeding

 Calvescalancod ration in itself for
consequently when milk and left to sulbsist on $n$ becomes one－sided．In order
animal grow as rapidly should be substituted for the whole milk．Clover or alfalfa roughage，and should be sup－
on as it will commence eat re rich in protemmence which go
mal body mal body，but they do not
ration when $\mathrm{s} \$ \mathrm{im}$－milk ts fed． balanced ration，and are con－
feed for any young animal． feed for any young animal．
aplying the fat removed from ual proportion to one pound has given splendid results． the proper housing，and with the fozds mentione， hen receiving whole milk．

## of a Winning Herd．

Wage patrons of cheose
to feed and care for
will produce
the the Wrostuce the offers prizes each year to
the largest amount年解 factory in Western case of the the creamery－first
per cow is considene

In
Burton
Sparto
\＆ Sparta，were suo－
cessful cessful in winning
first $p 1$ ace with
their herd of 18 grade Shorthorn
and Holstein cows． They were able to Mrouce all $\mathrm{the}_{\mathrm{t}}$
Yrughage and $\mathrm{th} \boldsymbol{e}$
bulk of the concen－ trates fed on their lng the fix monht，
the entire herd
he averaged $7,175 \mathrm{hm}$ ．
of of milk per cow
This is
an
ex ceptionally good
yield，and
 pure－breds，wean bo produce large quan－
tities of milk．Thie firm＇smethodo teeding and breed－
ing，may no bo
according to what accordlng
some do
to mairymen
what
ber lieve to be correct，
but it has given ws are kept on this
of unproitable animals their places are filled ldom have keep their cow，it is considered
cows than con more cows freshen in the usually given for a fow
o bring them to thelr
with sug to will eat sugar beets，and Ways kept make up the
urth of Man the stable start so it will last
the first week or two fed grain，butt once they the grain feed is discon－
ddde of July or first of first of is fed each cow and thee quarts fed
No extra oqreen feed No extra green feed
ut an endeavor is his motho field to an－
keeps the为 of tire．Tept the one hout the first of the
bks or two months
FFehruary themselves during

## POULTRY．

## Incubation and Brooding

By F．N：Marcellus．
Poultry－rasing is old－as an art but $\mathrm{n}_{\mathrm{n}}$ ．as a
science，and $i \mathrm{it}$ is a well－established $\mathrm{f}_{\mathrm{act}}$ that of sclence，and branches of the work the production
the varlous of eggs is the most inportant and also the mosit
profitable．The productive proftable．The productive capacity of a hen
depends somewhat uron the age of the bird，as depends somewhat ufon the age of the bird，as
the older the bird the less productive she be comes．It in now conclusively proven that on
the average the most productive period in a hen＇s life is during her pullet，or first year of laying．Hence，the nocessity of hatching and
rearing a sufficient number of pullets each year to replace a part of the old stock，and the yoare
the better．It is not advisable to keep laying hens longer than nwo advisable to keep laying
two
thers，and one is better， with the possible exception of Terchorns，or breeds
of sinilar type and characteristics．

When to hatch
The time at which the hatching of chickens
hould be done in the spring is a den should．With the majority of breeders it debatable point．
that too early hatching in the the spreang with ris result
in a mora or 1 less sarious moult of the pullets in the fall or early winter．This his，no doubt，a
a serious point．In comparing the production of
birds hatched at different dates at the Poultry Department of the Onterio Agricultural
 was found that in practically every case the birdis which were hatched earliest in the season obtained a lead which was not overtalken by later－
hatched pul ets．Comparing the aveize production up to the end of the year two lots of pullet and the other on the 7th of April，we found there was a difference of sixte3n eggs per bird，which
on a flock of one hundred birds would mean on a hors of one hundred birds would mean
sixteen hundred eggs．This，at the prices pre varling during the past fall，would make of hatching worthy of serious con sideration．irresprctive of the poseribility of a
sllight moult in the．fall．${ }^{\text {a }}$ It would certainly ap－ pear as if the hatching of such breeds as
Plymouth Rocks，Wyandottes，Rhode Island Red and birds of similar body weight might be profit ablv cartca on as early as the 1 ist of March
whils with the light－weight breeds，such as Leg horns，the frot half of April will be found suffi－ ciently early．

Selection of stock and eges
In order that our hatching and rearing results some attention to the selection and care of the parent stock．Sel cct those birds which are espe－ cially strong and vigorous，Whire egg－produc－
tion is the object sjuught after pay particular at－
tention to the tention to thy laying qualitles of the females，
but more particularly the laylny qualities of the parentage of the male．The breeding stock should
be compelled to excrcise freely，both during the co compellsd to excrcise freely，both during，the
bieeding seascn and the winter months previous
 mash
The eggs which are uszd for hatching purposes
should be normal in shape，of good color for the should be normal in shape，of good color for the
hreed of birds kept，and weigh at least twenty－ lour ounces per dozen or two ounces per egg e kept in a room where the temperature does oggs stuctuate more than a few degrees，storing eggs small end down and turning daily，but it
must always be remembered that the sooner eggs are set after heing laid，after the firss two or
t．bree days，the better will be hatchinig results theree days，the better will be hatching results
how to hatche
Two common methods of hatching are in gen－
eral use to－day，i．e．，natural and artificial thoth methods have their，commendable arteatures，Both
a：fino their faulte chickens early in the spring，or where keeping
 method becomes or nocessity．As the the labor and cost apart from acessity．As to the labitial cost of the incu－
hator，which teen cents per egy capacity the cost of the two teen cents per egg capacity，the cost of the two
methods does not differ greatly．The fuel cost methods does not differ greatly．The fuell cost
of incubating one hundred eggs with kerosene at
twenty twenty－five cents per gallon is，approximately，
forty cives egrys cents．To incubate the same number of
hatural means will rezuire six or seven weeks，The cost of feeding six hens for three
month based on aruitary figures of ten cents per month，which is olow，is forty－five cents．The
labor of ciring or
lior one bator is considerably less than that of caring for queselionired number of hens．Thare is also the
of the ine freedom from vermin in the cas？ portant，incubator－hatched chic＇vens which

THE FARMER＇S ADVOCATE．
In the selection of hens for hatching purposes，cleaned，but the egge should not be washed if it
those which are quiet，easy to handie and of the can possthly be avoided．
medium－weeght breeds，are to be preferred．The chan lit medium－weitht breeds，are to be preferred．The hreeds are too clumsy and likely to break heavy
and
The nest for a hatching hen should be about so located that the other eight inches deep，and
so to get on the nest．It is never advisable to set should either pen with the laying hens．The nest of sod the size of the nest inverted in the piece
tom，silightly hollowed erial，preferably oat straw and the nesting ma－ the sod．During the early part of thated on hen，whit irteen eggs may be placed under the the what in the latter part of the season，when may be given to each hen．depending somewhat
on the size of the bird


Strong andjWeakly Chicks． It would not be possib into the details of the ofseration of an incubator，
for the reason the to are differently operated are differently operated．All makes of maehines
are first operated and tested out by expart fore being placed and tested out by experts be
on the marizet，and the in structions which are sent out with each macnine
will be tound will be found the best guide for operating tha ated for several dava the machine should be oper
 puttigg eggs in they should be turnind or or shumed
twice every day twice every day，but when filling and trimming lamp tha eggs should be turned first so as to bo
certain that no oll comes in contact with then On the ninth no ou comes in contact with them．
the infertillties the first tcot is made．when the infertillties and dead germs，are removed． The latter are distinguishable as emerem，dark
spots
from which
the blood lines smal spots rom which the blood lines have disap－
peared，and by also by acrular red line which is
also termed a palso termed a blood－ring．A second test may
ald be made about the sixteenth A day，and the bealance
of the dead day the eglzs are turned for the last time and dhy the engs are turned for the last time，and
the machine should then be closed and left closed until the hatch is over．II the chicicks start panting the ventilators or dor of the machine
should be opened sufficiently to HOW TO BROOD．
both usifial as in the natural methods of brooding are usually fqund best where efther mation． bation is used to brood the chboles by of incu method．Regardless of which method is used，
the young chicks should not receive any tod the young chicks should not receive any feed un－ sixty or even seventy－two．The and bettier slxty or even seventy－two．The young chick
when it emerges from the shell，has sufitent food in the digestive tract to koepp it allye for
at least five days，and feeding should not talke place untive thays，and feeding should not take
pheen assimilated．Drear part of this supply has
bering the period ing starts，however．the young phick before feed ceive plenty of fresh trinking young chicks should re coarse sand or fine frit． $\begin{gathered}\text { They are，of coumse } \\ \text { with the mother or in }\end{gathered}$


Chicks in Colony Houses．


Raising Chickens in an Orchard．
One of the greatest objections to hatching with hens is the difficulty encountered with vermin is，therefore，necessary to the young chicks．It hody lice by dusting with qnsect powder．This gether one part carbolic acid（ $90 \%$ to $95 \%$ pure） with four parts of gasoline，and when thorough－ yp mixed adding sufficient plaster of Paris to take
up the moisture．Allow this to stand or up the moisture．Allow this to stand for a short be readily dusted into evaporates，＇When it can
Aply
bithis material around the vent and under the wings
just before settinz the hen and and just before settinx the hen，and again on the later as it may causa blindness in that not drinking water the hen with plenty of fresh under no condition give feed which might have Should the nests become fouled on the howels．
 possible and advisable chicks at at all times．
the a first few the above feeds to feed a smali quantity of chick food in the litter of the brooder so as to star
the young chicks scratching． may consist of any of the commercial chick food or be made up of cracked wheal，thirty
pounds；
finely $y$－cracked pounds；finely－cracked corn，thirty poundss pin
head oatmeal，thirty pounds；and chick grit，ive pounds．In many cases the commerclal ohick About the third week gradually replace the rolled oats or bread with a mash composed of one nun－
dred pounds wheat wheat middlings wheat bran，one hundred pounds firty pounds fine beef scrap，and thirty pounde
bone meand bone meal．This ${ }^{\text {is }}$ fed in a slightly pounds
crumbly condition crumbly condition．In caee sour skim－milk or buttermilk is avallable for drink then it should
be used as such：also to moisten meat case the beef scrap would be reduced to twhity five pounds．The number of feeds per day
should be reduced to should be reduced to four timmeens in per day
week，and to three thimes in the fith Whole grain should replace the chick food as wook．
as the chime as the chicks are large enough to eat it．The without should be gradually accustomed to going without extra＇heat as soon as they show going
feather growth on their bodies． exercised not to overheat bodies．Care must be nor to chill them，as either is most aurely fatal． In the case of hen－brooded chicks where they be
 Poultry－keeping is
it in only by close attention to the various little things that we may hope for success．It is a bus：ness demanding long hours of llobor and soven
days a week，and it is usually due to loce staying qualitike that some people who start in
the busineess give the
branch of the farm which pays well under proper care and direction, and with the large markets, which are opening up to this country at present prove highly profitable to those why stay with
the business and hatch and rear more and better the business and hatch and rear
birds to help supply the demand.

## HORTICULTURE.

Concise Answers to Questions Re Fruit.

Growers' Association, held in Toronta of questions regarding tender fruits and apples were placed on the program. These were an-
swered by individuals who had had experience in the field of work regarding which each question was asked. We are reproducing here a numiber
of these questions, also the answers, and the
names of the individuals who answered them.
Would barrelled apples sell for more money if
were machIne graded ?- Restaurants and they were machine graded?-"Restaurants and
such want large apples, for they can be peeled
speedily. Many speedily. Many want smaller apples suitable for dessert purposes. All No. 1 apples in the same
barcel would vary in size from 25 to 3a inches. The small apples in a barrel would, with large are quite as suitable for certain purposes as the large ones, and would sell for as much if barrelled by themselves. One of the largest dealers in Toronto said he could sell apples for sizes. It is now possible to purchase first-class grading machines that will cost little money and bruise no apples."-W. F. Kydd.
What prospects have the tender fruit growers
or disposing of more of their low-grade fruit in the form of by-products? -"Owing to the falling off in wine making, which absorbed many vurleties of grapes, and the increase in grape julce Concords, the prospects are: Red varieties, Wordens, some Concords and other varieties, will
be sold fresh on the market. The best Concords will be used in the manufacture of grape fuice Culls consisting of small and unevenly ripened making. With regard to peaches, the low grades consist of under-sized specimens, over-ripe grades of all sizes, split peaches, gum spots and scabby
peaches. Und
Under-sizd peaches. Under-sized, gummy and scabby peache oficed and put up in water for fore-making purposes Over-ripe fruit may be used best for jam pur poses. There are possibilitities for this yuality of evaporating war purposes. The prospects for
O. Culverhouse.
fike 1915 ? "'One application put on about the midane of July would increase the percentage of
ifean apples 40 per cent. in a season like 1915 . put any application of spray materfial about had middle of July, they would have had 40 per cent. it was possible to grow clean apples as 1915, Kydd.
of the necessary to cultivate the entire surface orchard ?
growers are neath the trees. It is considered 'unnecessary torcultivate closer than four or five feet from the
trunk of the tree. There are no feeding trunk of the tree. There are no feeding roots
so close to the tree, so there would accrued from cultivating that ground. These reYoung trees should be started by cultivation."-
rigation system the results to date from the Station?- In strawberries, there was an increas in returns from the irrigated land over the nonThe cost of operating the system, interest on in per acre, leaving a profit of $\$ 66.00$ per acre from
the irrigated field more the gated. Ten and three-tenths from the non-irriwere applied during the months of May, June and raspberries, but asparagus, celery, beets irrigating rots, gave profitable returns for the water ap-
plied.Are we cultivating our orchards too late in the
summer? Growers must judge for themselves
at picking summer ?-". Growers must judge for themselves
at picking time whether they have made a prac-
tice of cultivating too late in the summer Some solls will stand more cultivation than
others. In Eastern Ontario, for instance, east
of Trenton the cliter of Trenton the climate warrants only a short
period of cultivation in the spring. The land
should be well worked up in the orchard, cover crop sown. East of Toronto, the middle
of June would probably be the proper time to
cease cultivation in orchards. There are few
places in the province where it is wise to cul tivate any later than the first of July. The season, however, has very much to do with cultivating orchards. During a season with abundant
rain, such as in 1915, it is not necessary to cultivate as much as in a dry season."-L. Coesal
Should the grower be compelled to put his name on open as well as closed packages ?-''Nine are stamped of ten are found where package his name. With the packer's number, instead of are not bad packers. The name ha a guarantee
of quality and a safeguard to the consumer.". J. Carey.

## FARM BULLETIN.

Nova Scotia Farmers Hold a Good Meeting
Back again in Windsor, the
always get ane hearty welcome.
The mheetin the Nova Scotia Farmers' Associlition, opengs The opera house, on Tuesday evening, Jan. ${ }^{27}$ congratulatory and welcoming addresses, inter G. C. Cum by loval artisti.

Brunswick, gave a very practical for New growing. It is becoming more difficult on potato to grow a good crop of fine, smooth tubers. The average of New Brunswick. was 117 bushels per acre, while three hundred and fitty wis only a
good yield.
The farmer who wants heavy must be very careful in the solection of his yields which must come from record crops. There are two methods of slacection of seed-that of a uniYorm, medium-sized potato from the bin after
they have been stored, and what is hetter they have been stored, and what is better, selec-
tion from the field. Mark the most viero hills, and keep the potatoes from these hill separate when digging. In this manner we get Experiments had shown that seed from growth. hills had given from 150 to 200 bushels strong increase over seed from weak plants; also seed $l_{y}$ in vield tarts of the country varied great controlled by the use of Bordeoulx me pretty well bluestone to 40 gallons of water. mixture- 4 tis in which one part of a field was thoroughly sprayed with Bordeaux, and an adjoinfing part
Ieft unsprayed, showed an increase of 220 bushelt per acre in favor of the increase of 220 bushels
diseased
dise low, mottled Mosaid and. puckered shown by a light, yel. This disease, under ordinary conditions, will de
crease the yield from leg is a disisease that rots and discolort. Blackof the growwing plant, wilting and ars thening stalk
Ieaves lige
light color. The stolk ond decayed and putrid The stalk often becomes stop growing, and the with should be The tubers burned. Treatment consists in in soaking ang and
which is thought to be infected with yde 1 pant to 30 gallons water. Also presence of funcus in the Scab spreads by the the acdition of $l$ lime, barnyard mis increased by and is a difficult disease to cope with on account of the above means of spread. Treat sead hlarouleg soakikn formaldehyde, as in the coase of
before cutting the potatoes about two days before cutting and planting. The discussion of immature seed was out the facts: that sligntly
whole seed seed is cut very, the larger the better; and if
to coat if ore planting it is well drying out. with lime or earth to keep it from to two hasif days were devoted almost entirely
and locs odin fact, there was more busines and less educational work done than at any pre-
vious convention. ity in Director's Report showed Increased activculture. The call for or departments or ayrii-
nlet with a sillendid of muany drawbacks, due tesponse, and in spite
the production of war and weather pared with on of farms showed up well as comern-
ing erected at a the Neast of Tew Scienco Buld-
ine hundred

 sociations are holding their own and County As-
stock and farming methods. recommended great care in hrorses, Mr. Sinclair
mares to the best ava the free from transm aval lable, and that stallions
The conformation issile wenknosses or diseases disposed dherm to of horses, in many canse the are
a contracted
 These conformerimht pastern to navieular disk to
ner a
a sire
ful work is rather bensficfal than otherwise. The
young foal should not be allowed to run in wheng the mare is working, but kept in a field stall and taught to stand tied as early as possi-
ble. The foal should be weaned at aiout ole. The foal should be weaned at about five
months of age, and at this time the colt should be fed carefully and well, as this the colt should critical period of his life. The colt's teet most constantly be cared for, and by paring kept in good shape. The prices of horses, while now rather unsatisfactory, will undoubtedly be better the warring countries, and buying will prow in soon begin in Canada.
In the discussion which followed several
showed splendid results from the use of shlimshowed splendid $r$.
milk for weanlings.
Professor Trueman, of the Agricultural Col lege, gave results on a college farm of the use of
ground limestone on different crops and ground limestone on different crops and solls.
While the diference between the limed and unlimed plots, where oats was the crop grown, was not especially marked; the clover catch and the in favor of the application of 11 me , thery plainly an increase of over a ton per acre there being plots. Some parts of the field under experiment the reason being show any appreciable difference the reason being that these parts were already in ment. The best result for the treat stone are found to be on reasonably poor and acid soils when a dressing of manure or fertilizer or not its use is profitale question of whethe the price and the cost of delivering largely on farm. In many cases it may be profitable to the even when costing from four to five dollars a ton where large quantitlies artions of the United States and the railways haul it at spec small districts, rates, the farmers get it delivered for freight dollars per ton and less. An application two lour tons per acre is supposed to be effective for
four or five years.
Professor Cunni

Professor Cunningham salid that club fact, all peculiar to turnips and cabbage, and in caused all plants of the mustard family. It is of eradication onisms in the sofl, and is difficult removal of the soil to difi by affected seed, by marrowing and cultivation, through the through with club cattle which have been fed plats taken from affiected also from seedling plants become infected it soil. When the soil has once meantime or turnips on it for a few years any caba rotatie to treat it with limestone , and in the belonging to crops, clear the soll of all weeds application of five tons family, and make an With this treatment club of limestone per acre. years. disappear from the soil inslde of threon discussion of some three hours took place operative associations might be derived from co Province, made up of different unitsughout the societies, governed and operated units, or local union, which would be able to buy all centra ly reduced prices, or sell quantities and at great the best markets to the the farmer's produce in favored the amalgamation and incorporation some the County Farmers' Associations, and Agricul it better to form units county. Others thought these. A. E. McMann Manether independent o Fruit Companies, and A. F Ader of the United the same, gave figures to show the saving to the farmers. Which had been effected through that
organization. feeding. The dairy gave a very practical talk on showing the comparative value the average farm in the Province. To grown on tion with the crops consisting of oats, peas and hay and silage Officers elected: President, and vetches. Murray, Pich, N. S.; First Vice-Pres Wessenger Freeman, Amherst; Commissioners tion Kennedy, Pictou. F. W. Foster, Kingston; H. S. Resolutions
the elimination of the we earnestly recommend That with the exhirbition at Halif F . cieties for the buying and form co-operative so-
duce and other necossitien farm proThat legislation be enacted for public service of grade or mongree bulls the use
in certain limits where for service. with a transportation companies be approached with a view of ohtaining greanies be approached
rates on ground limestone.
That the government he duty on all fertilizers.

 ${ }_{\text {The past year satiaiactory }}$




 The President of the Association, suarts, osgooie Station, in his opening, remaiks
expressed satitefaction with the suceses attained oy the various fartr and exhibitions throughout
the Provinee
He belioved the expert
judge sys
 satisfaction was the heard an the times rega. Some diswork of the judpee sent out hy the deparament
and
Mrr. Stuart criticzed the directoras oin the various fair boardis for on rop rortity the of the the
of any juake to do his work epotist judge who failed to give esatisfaction is not sent
out the following yeart. It was
 without the exhhbitor; notractions were not enough in themselves. The Presidont saw in the theo boys air movement a means of education for fors that would be of great assist
the
 ase expressed that it would be better or iniol School Fairs and Township Fairs to hold their


 Forrast, pocinted out the need for more co-opera,
tion and unity between fair boards of a diatrict
In It was suggested to have the the datase get weil in advance, and advertiee the main teatures of
soveral fairs on one large poster.
The method

 rrder that extibitors, as 'well as visitors, might
 Falr movement, and Lelieved every garicutural
society should encourage the boys and girls.

## A Prosperous Year.






 irict, Not only would growing one variety nake
it easier tor the judges, put trom a financial view-
pion
 or grain or potatos. Each year shows a marksed
improvement in the work done by the Deart. mental judges. This was constdered to be due
to judging courses held at Guelph and outawa
 Impart information to the farmer by, attending
these courses.
An endeavor is being , made to have the judges fron Western Ontario visit the
Experimental
From


 are now practically free from gamblers at the
tairs. In the future there will be absolutely no
no

 nual mextear's fair is immediately arter the an-
In
In Northern Ontario
Ont
tam mod hat oub

 hich have been the tod vison of When the soil has onats or a few raiso any cab-解 the soll ond practice of inly, and make an
or on motme per acre.
root germs should e soil inside of three might be derived from co $f$ different units, or local arge quantities and at all necesslbest advantage Associations, and Agriculaltogether independought Manager of the United
E. Adams, Secrettry show the saving to the

## a very practical talk on

 value of feeds a chartPrown on
growne. To improve clover hay and rota-
peas and vetches Messenger,
Whlliam
$\qquad$

The poultry branch of the agricultural indus it was believed that officers of earch year, but failed to meet the new requirements. Mocieties Should have proper coops for exhibiting the bociety
and have them placed so the public could see
the exhibits. It wat beline hould be revised was believed that the prize list dded or removed in order to serve to the Ladies' Work, the speaker believed the time had the fancywork from fair to fair, oftentimes no the product of the exhibitor, should be debarre
from exhibiting. The exhibitors and travel from fair tho are professiona ing the best products they can fair, often buy are discouraging the amateur exhiblitors to win every consideration should be given the amateur made for the comiort of the see some provision fairs. It was believed that a few benches local resting parts of the exhibition grounds, for by many whe attend the fair. The financial statizmént shair. \$134.13 on hand on January 1, 1916. balance of
In discussind Connelly, of Cobden, advised that the Fi judges leave a score-card with the farmer short, so that might know where his crop fell believed that theve should be no year. It was ered poor economy. on the work carried from each district reported irict. It was an experience meeting, and many fairs were expressed. Throughout of managing the fairs were well attended, and the Province tendency to tincrease the showing of pure-bred
stock. Field Crop stock. Field Crop. Competitions encouraged the
sowing of the best possible seed available, and
the eradication of noxious weed

## Field Crop Competitions.

## R. F. Mortimer, Honeywood, reviewed the

 the steady growth Crop Competition, and shovedin 1907 has made since its inception in 1907 . When 11 societies connected thenselves
with the movement. It was believed then Competitions have done a good deal toward improving the qual ty of crops grown throughout
the Province. They encourage better cultivation,
more careful solection more careful selection of seed grain, and the de-
struction of weeds, which leads to larjer ppoft.
Mr. Mortimer suggested that Mr . Mortimer suggested that each society en-
deavor to increase the number of deavor to increass the number of farmers toking
part in the competition. At present the ment makes a grant of $\$ 50$, which is supplemented by $\$ 25$ from the society. The speaker antord to increase their grant to $\$ 50$, thus makeach competition. Wm. Hickson, Bobcaygeon, outlined meth he practiced in judging field crops, and advised crep. It was believed that the whole for his
grain should be exhibited
acres
Mutton and Wool.
Competition was considered by T. Reg. Arkell,
of Ottawa, to be one of the most wholesome
means of encouraging better production. At too
many fairs the sheep section is looked upon as a
side. issue in connection with other livestock ex-
hibits. The speaker thought that from the
standpoint of both mutton and wool, sheep
should be accorded a prominemt place at and
tario fairs. They form a double attraction,
drawing to them the attention of farmers and
sheep breeders, drovers and wooll
do in breeding, feeding and fitting what they can for wool in ther believed that if prizes were oflered As wool is purchased upon the basis of both words, the higher the shrinkage, or in other price, the quality being the same. the smaller the is necessary to impress on all sheepmerefore, it vantage of cleanliness, and it wes considered adthere was no better place to show the proper
grading of wool than at the

## Poultry Deserves Suitable Quarters.

 question of Improvement of Poultry Exhitits, the Rural Fairs, criticised the deplorable metbits, at body is interested in the poultry fairs. poor attempt is made to display the birdis a make the poultry department at the fair of educational value. Prof. Graham urged the fair boards to supply uniform coops in which to exan opportunity to examine the judge would hate could easily see the conformation and appearunce of the birds, or be able to make comparison if exhibit beside a board fence, placing the poultry that the feathered trilbe should the speaker stated in a building free from drafts. Many poultrymer will not show their best birds where the actcommodation is poor. commodation is poor. Much could be done eiong
these lines to improve poultry exhibite to the prize list, it was considered a mistalco
award prizes to award prizes to pairs of birds, as it made judging much more difficult, and the edicationgal ing singles is a more satisfectory method Showwas deemed advisable to entend the prize Irsts; and include with the fancy and utility birds; pigeons and Bantitams. This will please many
boys, and possilily train them to take an intine
in and exhibit in and exhibit the larger birds. The an interest. was made that there be classes for fat, chickens either pure-bred or cross-bred, shown in singles or dozen lots. This class might be sub-divided
 considerea important, and prizes should be wiven at every fair, but the judging should be done on quality basis rather than according. to sive Graham is now an exporter of eggs, and Prof. duct so it would reach the consumer in good con
dition. As eggs deterior dition. As eggs deteriorate quifickly, it, was be
lieved that grading and candling eggs, at the fair

## Classify Horses at the Fairs.

$$
\begin{aligned}
& \text { Speaking of the proper classifieation of horees } \\
& \text { the fairs, w. J. Bell Toronto. }
\end{aligned}
$$ the agricultural societies could do boltoved that a proper classification of market horses for the lish of horses in asstisting him to estath true market standards at the setting forth the horses are bred expressly for firs. Not; enough was made the farm and road. The suggeato fairs conform all entries of draft horsesiat the Heavy-draft, we the following classification ing 16 hands and upg 1,500 mbs. and up, stand1,350 its hands and up, in heift 1,350 :to 1,500 claimed there wass tifian 15.3 hands. Mr. Bell or a "general-purpose"' for an "agnicaltural" agricultural sit too much latitude to market, fuptify It was the opinien that directors of fair toerem,

should be carefil should be careful to see that horses fware entered having the judge give reasons speaker suggesced having the judge give, reasons fon his placings, in the weak and strong points of their in particular order to obtain the best satisfaction, exhibitors should keep away from the judge, anid also the
practice of crowding the show-ring should

Training for Department Judges. The benefits of short courses for department of Ottawa, and it was his opinion that by hay ing the judges of field crops or live stock meet
before the season's judging was done. The course tends more uniform judging was done. The course tends towards ad-
vanced judging. The day was past when ordinary stockman could act in the capactity an judge. As time advances, typer of anity of
change, and the change, and the exhibitors look to of animald give information, or at least his judgment tefids lo sed the type in that district. giving reasons for his placings,' and be waplitio of give information that would assigt amateirs ${ }^{\text {g }}$, a few days in conference theck. By sipentiditis. a few days in conference the judges ay spending
their work with the same tiden regarding
conformation and quality of an animal, so that following year, he will have the same type of animal in itaw, as did his predecessor. With the field crops, judges should all put the same stress
on the various poin's, as stand of crors, freedom on the various poin s , as stand of crofs, freedom
f.om weeds, and purity, so that uniform judging may be done over the Pro vince.
Prot. F. C. Elfred, Experimental Farm, Ottawa, emphasized the importence of having urged tie directors of the various 'ussociations to revise their prize list; supply adequate accommodation for the poultry, and to have a pro-
ficient director in charge. In view of the assista
National Exhibition by the Fairs and Exhibition Association, the meeting decided to request that they be allowed a representative on the Board

At the evening meeting Hon. F. G. Mactario, gave a resume of the value of the different crops in the Province. The speaker felt confident that the Association would recelive the same assistance from the Government as it had in
1915. The farmer was urged to do his utmost in production in order that Canada misht pass through the present crisis with'her credit unimpaired.
N. W. Rowell, K. C.. Leader of the Opposicountry lies in the prosperity of the farmer. The cities yave been over built at the expense of the rural communities. Mr. Rowell $\frac{1}{2}$ believes there is a great gulf between the rural school and the and favors the system of agricultural schools in different parts of the Province.
A very interesting address on "Our Friends,
the Allies" wa
son, of Ottawa Fol.owing are the offcers elected: dent, J. C. Stuart, Osgoode Station; 1st Vice president, Wm. Scarf, Durham; 2nd Vice-Plesi
dent, L. J. C. Buil Brampton. dent, L. J. C. Buil, Brampton; Treasurer, Atex Lockie Wilson, Toronto. Auditors Editor, J Lockie Wilson, Toronto; Auditors, R. Agnew Meaford; and Dr. H. B. Atkinson, Embro. Direc Connelly, Cobden; J. E. Johmson, Tweed, Edward Hawthorne, Warsaw; Geo. Downey,
Bolton. Bolton; J. V. Williams, Marshville; Geo. L.
Telfer, Paris, R. R. 2; Jno. J. Johnson, Fordwich; J. B. Clark, Blenheim; R. Brigham, Hanorer, R. R. 1; W. J. Hamilton, Raymond; E. F.
Stephenson, New Liskeard; and J. D. McColem Stephenson,
Spring Bay.

## Canada's Live-stock Men Assemble in Toronto.

It was live-stock weè in Toronto, beginuing
on January 31, 1916, when the breed associations hed their annual meetings, and outlined their work and policies for the ensuing year. The Carls-Rite Hotel was headquarters, and all breed associations held their meetings there, except the Holstein-Friesian.
Dominion Shorthorn Breeders Prosper. One breed society that has made steady progrees, and one that is increasingly prosperous, is the Dominion Sh:rthorn Breeders' Association.
The remarks of the President and the financial The remarks of the President and the financial
report of the Secretary at the annual meating report of the Secretary at the annual meating,
held on Tuesday, February 1, substantiate this remark. The Association has be n criticized as remark. The Association has be in criticized as
being too conservative, but one can easily under-
stand stand how a breed society withe can easily undersuch an enviable record would be loath to depart from estapllished customs and adopt new
policies, regarding the outcome of which the breeders are uncertain. A good attendance was
on hand at the meeting, and bus'ness was transon hand at the meeting, and business was transacted in such a way as to indizate
purpose and confidence in the future.
Weaton address of the President, J. M. Gardhouse, ments of 1915. In the past year thice were 11,135 registraticn 3, bing an increas of 948 over thc $8 \geq$ of $\begin{array}{ll}\text { 1914. Membersiips ircreased in } \cdot 1915 \\ \text { giving ty } & 250 \\ \text { the A:sociation at the pr sent }\end{array}$ giving the A:sociation at the prisent time a
membership of 2,244 . The past year also saw many importations made; in fact thre were more than in several previous years combined, and Mr.
Gardhouse stated, "I am credibly informed that Gardhouse stated, "I am credibly informed that Britain is removed that a considerable number more will be brought over. The results of the Record of Performance tes's with Shorthorns
have feen gratifying, and there has been a steady have been gratifying, and there has beən a steady
increase in the number of applica ions for the test. Beginning in April, and up to the tinse of
meeting, the following animals ha e qualfied: 12 two-year-old beifers gave an average of over
b,000 pounds of milis, testing 4 4 , 12 19 three-year-old cows gave an averag $\geqslant$ of $: 11$ ght19 three-year-old cows gave an averag of olisht-
ly o er 6,500 pounds of mirt, te ting 3.99 per
cent.; 6 four-year-old cows averaged 7,100 pounds of mil', testing 3.85 per cant., and 33 mature
cows averaged ooer 8,700 pounds of milk, test-
in r 39 per cant the Presidemt, "what we have long maintained that the Shorthorn ran's high from the dairy
foint of view, while from tho beef standpoint the breed stands out pre-eminontly." Mr. Gardhouse horn and the breed's many qualifications. hoth for
beef and milk. One splandid feature of the trat beef and milk. One splendid feature of the trad
was commented upon, viz. the demand for wat
is known as farmers. given to breders to record as sone after birth as
possible. "It helps the Association. it hilps the
breeders Individually; and it heljs the conducting
of records."
by Robt. Miiler, Peter White, W. A. Wallace and
W. H. English. The discussion culminated W. H. English. The discussion culminated
the following resolution, which was carried: "That the Executive be empowened to tal such action as may be deemed advisable lin the matter of an active campaign for furtliering the
interests of the Shorthorn breed, and that they consider the appointment of a field man or men in connection with the work, and that they be mpowered to expend the necessary money." Breeders have found it difficult to secure auctioneers to ofliciate at public auction sales understand the breed. The discussion relative to this question is practically all involved in the following resolution, moved by Robt. Miller and " "That the Dominion Sh
sociation, at its annual meeting, hereby petition the Ministers of Agriculture in the various prorinces to appoint oflicial auctioneers to sell live by the Department of sales made or controlled sentatives in the provinces, and that or its repre amended so that any auctioncer may secure be license for the whole province, and that a copy of this resolution be forwarded to the Ministers animously. Breaders from Western Carrada unthat they had experienced similar difficulties to Readers will probably remember that, in preious reports, mention was made of the agitation fixeld rule by which Directors would to sacure some A meating of the Eastern and Western appointed. was held in Winnipeg on July 16, 1914, and that Sections 1 and 2 Article be advisable stitution of the Dominion Shorthorn Breecrers' Association be amended so as to provide for the
election of election of Directors on the basis set forth in the
following resolution: Live "That this meeting of rerresentatives of the ada recommends that in order to furnish adequate the election of Directors on of the Dominion, fortionately Associations should be based proship fees paid by each province. This nember number of dividin, the total mem'ership $f$ ies by the then dividing the membershio fces received from anh province by the unit thas furnitived, which that particular province is entitlatd. In to whe event.
of any po ince not furn shing a suffic:ent amoleat question, or if ans to le divisible by the unit in Ccin proi ce may freater th in morphalf the unit, mount of the feps drived from any When the
fter being di-ided the entitled to anothalf the unit, such province to This rasolution was movible." in the annual metaht Mill r. The Ruthriord, and saconded by rsin, ha con id rad same resolution must, of * thombtherthorn ssociation alopted it. It It $-4$

Exat we place $\$ 4,700$ in the hands of the Executive Committee for grants to fairs, and as last year, with such additions as they grants see fit." Representatives from Western Canada, includ-
ing Hon. Duncan Marshall, Mlinister of Agriculture for Alberta; Dr. 'S. F. Tolmie, Victoria, B. W., H. Fn. G. Rutheriord, Calgary, Alta.; and W. H. Fnglisa, Harding, Man., gave interesting
addresses. The Hon. Duncan Marshall tider such a change in the policy of the Association ad would permit animals duly recorded in the Unlited States or Groat Britain to be registered in the Domininn Shorthorn Herd Book. Gegistered suitable bulls to mate with milking Shorthorn cows, simply because the Record Board in Can ada would not accept good sires that perhaps He furthermore though requirements now stand. ie furthermore thought it advisable to accept a sufficient number of crosses. This, he claimed, bulls encourage the use of more good pure-bred bulls, for the breeder could look forward to registering his stock after it was improved to
the required extent.
Officers: President, J. M. Gardhouse, Weston
First Vice-President, Ont.; Second Vice-President, J. Fryden, Mitchell Burklin, lingtcn, Ont.; Sec.-Treas., H. M. Pettit, Freeman Board of Directors R. G. T. Hitchman, Ottawa land, Saskatoon, Sask. List: Hon. W. C. Suther N. S.; John Gardhouse, Highfield Ont, Clitton Watt, Flora, Ont.; P. M. Bredt, Calgary, Alta ron, Carberry Man, Rombus, Ont.; J. G. Bar J. A. McClary, Man.; Robt. Amos, Moffat, Ont. Drumbo, Ont. C List: S. Dyment, Barrie, Kite,
W. R. Elliot, Guel Ninga, Man.: Wuelph, Ont.; J. G. Washington, Douglas, Caledonia, A. Wallace, Kars, Ont.; Jas. Committee: J. M. Gardhouse, Chalrman; Harry Smith, Peter whitional Record Board: Harry house, W. A. Dryden, Robt. Miller, J. M. Gard. house, W. A. Dryden, and J. A. Watt. Delegates
to Dominion Cattle Breeders Association: Harry
Smith and $J$. reand
Representatlives to Exhibition Boards: Uan-
adian Naticnal Exhibition. Toronto and J. A. Watt; Western Fair, London, Capt. T.
t. Ro' son, Loadon, and J. T. Gibson, Denid. Central Canada Exhibition, Ottawa, J. M. Gard-
house, and W vincial Fair, Hrandon, Twin Elm; Intef-FroPro. incial Exhinition, Rarron, Cegina, Jorberry, Man.;
Moose Jaw, Snsity Woose Jaw, Sas',. and Geo. Kinon, Barnett,
wood, Sas'.; Inter-Provinclal Exhibition, Stcon-
toon, Hon. What toon, Hon. W. Sr-Provincial Exhibition, Saskaard IR. W. Caswivi, Sas'atoon: Paskatoon, Sas'rovincial Exhi-
bition, Edmonton, James Sharpe bition, Edmonton, JJames Sharpe, Lacombe, Alta.,
and Hon. Peter Talbot, I acombe, Alta. Tnducs and Hon. Peter Talbot, Lacombe, Alambe, Alta.,
trial Exhi: Iition, Calgary, Chas. Yule, Carstuirs,
and J. I. Waltors, and J. I. Waltars, Clive, Alta.; Vancouver Ex-
hibition,
 i'le, Que., and I. R J. H. M. Parker, Lennoxrovinue, and I. R. Cromwell, Cookshire, Que-;
novial Fxhititicn of New Brunswick, R. A.
nowball, Chathan, N. B., and A. E, Trites V. Grifin, N. Fro Mo Mncial Exhibitian, Halifax,

FOUNDED 1866
the officers
t, Osgoode Station; 1 st Brampton; 2nd Vice-Presi Ilie; Secretary and Edito oronto; Auditors, R. Agnew
I. B. Atkinson, Embro. Direc ery, Osgoode Station; W. JJ
J. E. Johnson, Tweed,

Blenheim: J. Johnson, FordBlenheim; R. Brigham, Haniskeard; and J. D. McColeman,

## oronto.

$\$ 4,700$ in the hands of the
tee for grants to fairs, and tee to grants to fairs, and
cted to mako the same grants
such additions rom Western Canada, includ-
Aarshall, Minister of of Agricul-
 ding, Man., gave Alta., and ateresting
o. Duncan Marshall addoce e policy of the Association as and ruy recorded in the
rat Britain to be registered
orthorn Herd Book orthorn Herd Book. Great
enced, he said, ink obtaining
ate with milkiny Shen e the Record Board in Can
pt good sires that perhaps
ate ane requirements now ptand.
ught it advisable to that had been bred to up aftep
of croses. . This, he che use of more good pure-bred
der could look forward to
t, J. M. Gardhouse, Weston Brooklin,

hell, Bur | esident, J. F. Mitchell, Bur |
| :--- |
| -eas., H. M. Pettit, Freeman, | st: Hon. W. C. Suther-

 Columbus, Ont.; J
Robt. Am, Alta
 Vallace, K. Kars, Washington,
Ent.; Jas. dhouse, Che Crman; Harry
Robt. Miller, and W. A

Record Board: Harry
Miller, J. M. GardDelegates
xhibition Boards : Can-
in, Toronto, Robt. Miller

 Regina, Jos. $\begin{gathered}\text { Man.; } \\ \text { Geo. Klnnon, } \\ \text { Garnett, } \\ \text { Cotcon- }\end{gathered}$ as atoon: Provincial ExhiI.acombe, Alta.; Induas-
, Chas. Yule, Carstairs,
 H. M. Parker, Lennox
Nwell, Cookshire, Que incial Exhibition, E, Trites,
ind
is, N. S. And A




THE FARMER'S ADVOCATE.

Dominion Cattle Breeders Discuss Funds.
Many efforts of the associations representing
he different breds of cattle, are influenced by the ditierent breds of cattle, are influenced by
the esanding and poilicles of the Dominion (iat-
tie Breedersi Association whit tle Breders Association, which is
directors from the various breed.
The words of the President, John Gardhouse
at Weston, at the annual meeting were few
but but in them he very nicely explained
the position of the industry at the pres-
ent time. "The cattle trade," he said, the outlook for trade in cattle. 'is said, "and very good.
There is a shortage the men should endeavor to produce erore cattle and and
better cattle. if it pays to breed will pay better to breed good on :.s." Lathe Last
year Mr. Gardhouse, R. W. Wade, and Prof. M. to invertigate the possibiliticics of alarranging for Association Cars going East as they go west and thus work up a trade for live stock in the
Maritime Provinces. May diffculties must be
confronted before pranctical and worklng benpis, and the cot on a
pommittee could not report through Mr.
definite or satisfactory conclusions
West at fairly regular intervals, have been sen men in Ontario could shlp animals to purchasers "Association Cars,", and they have been ing as mental in furthering the trade in live stock be
tween the Ontario breeder and purchasers in
 The rates on two or three animals would ive
prohibitive, but by assembling the many consign prohibitive, but by assembling the many consign
ments into one or two cars it has been possible
 in as many months, carrimed 28 , whicses were mate 103 cat
tle, 76 sheep and 8 swine. The rates paid by the individual shippers have not been sufficient to rate would make the practice of shipping in ther Way out of the questlon. To To goo into the the mat-
ter fully, a committee, comprising John Gardhouse, H. D. Smith and W. A. Dryden, was ap-
pointed. They Were authorizd to walt upon
the Provincial Minister as arialt grant to carry on the work, and also to study tors influencing the financi 1 success of AssociaAll but two of the directors of the Dominion
Cattle
 can be learned from a report of their conventions.
The two directors appointed at this meeting were
Prot Prof. G. E. Day, of the Ontario ath Agricultural
College, Guelph, and Representatives to the various fair boards, Weston.
ollows. Yolows: Canadian Natlonal, Toronto, John
Gardhouse, Wwiston; Western Fair, London, W. W.
Rallantyne Ballantye, Stratford, and Harry Sondon, W. W.
Central Canith, Hay; ent of the Dominion Cathibition, Ottawa, the Presi Hodgins, Ottawa; Winter Fair, Guelph, W. A
Dryden, Brooklin, John Gardhouse, W. W. Ballan tyne and R. S. Stevenson, Aincaster; Winter
Fair, Otawa, Peter White, K. C., Wembroke, J.
H. Grisdale, C. F. F., Ottawa, W. F. Stephen,

Hereford Breeders Had a Good Year. ers ot thism for the future of the Hereford breed
dent's address any was the keynote of the Yresi dilety, held at Toronto on Wednussday, Jan. 3 .
The stateme greater than the supply, especially for bulls, was
well received by the large gathering of members
present. present. The financial statement of the secre so satisfoctory a conditicn the that Society to be in
to the amount donated was added oxhibitiomount donated in grants to the various exhibitions, making the total amount of grants
for 1916. $\$ 1,600$.
the cash balance on hand at the beginning of the year was baiance on hand at
total assets over liabilitites $\$ 3.1518 .16$, and the Clifford, Oshasent year are: President, L. O
Orice-President, W. H. Hunter Hrangeville; Secretary-Treasurer, H. D. Smith



 son, Montmarte; Alberta, F
British
F British Columbia, C. C. Charlton, Vatt, Calgary;
Quenevec. W. G. Draper, Compton; Nova Scotla, W.

## Holstein Breeders Optimistic.

 Association of Canada was held in ForestersHall, Toronto, Fel., 3. The meoting was largely
attender,
were discussed the past yeari's work of the Association, and it was gratifying to the members to know that the membership had reached the twenty-two-hundrea creased, and everyalance over last ylear has inprosperity. The consignment sale held in New
Westminster, success many had hoped it would be duo not the bly to the fact that it was a cash sale, and moifers was none toa plentiful. The 56 choice reached their destination in first-class condition and while the prices expected were ns condition, it was believed that the placing of these hetfers ment for leading shows last year, the number of Holstein eattle exhibited exceeded that of any previous year, and Mr. Flatt considered that the Associa-
tion should take action to increase the of prize money awarded. It was pointed out Holstelin entries last year exceeded those Shorthorns by 156 , and yet the prize list ahowed
that $\$ 649$ more was given to the Shorthorns than to the Holsteins. Mr. Flatt's advice was The Secretary, W. A, Clemons, gave his repo tha mem was received with interent by were issued for 874 official tests myde under the Record of Merit rules, of thzs 492 were now admitted to the Record of Merity-five during the wear.
nne hundred and ninety cows qualified in the Record of Performance test bringing the total up Reord of Performance by siring four tented daughters, all from dififerent dams. There was during the year, bringing the total to 10,260 .
The number of transfers was 7,813 , which considared exceptionally good under prevailing names. The auditors' report showed a balance assets $\$ 1,597.94$ on hand Dec. 31, 1915. The tota The reports of committoes were dealt with
clarse by claus. After considerable discussion the recommendation, that the Assoziation grant provided that the Exhibition Board put the
Holstein-Fricrian Association on the same basis as other breeds, was adoptei. The grants to other fairs were left the same as last year.
There was a good deal of discussicn over the propesed change in the amount of money paid gested lavin'y the amount the same for new men having cows that make a record, but that year. Thassistance after March! of the present men who knew the value of testing would conadvantage in encoura Record of Merit tests. Some breeders suggested increasing the amount of money paid to new
members who had cows qualifying. It was believed that the Record of Merit is the best minaliy the mee ing decided to malke no change this year
issue of January 13, page 48 , one to ane amend My-laws, and the other to amend the Record of Thes, Laidllaw as a reimbursement for cattle accldent The questione British Columpia shipment. ments which had been made in the Province of Quebes regarding the Holste'n breed as being
particularly subiect to tuberculosie, and the As
ing tuberculosis in Quebec. the banquet, held at the Carls-Rite Hotel,
Diodmesday evening. The speaker of hedmesday evening. The speaker of the evening
was Dr. J. A. Macdonald, Toronto quent address was thoroughly enjoyed. Other speakers on the program were: Prof. Dean,
Guelph; Prof. Geo. E. Day, Guelph; C. F. Bailey Assistant Deputy Minister of Agriculture for On ture for Alberta. W. H. Haley, Sorin roford First Vice-Pnesident, "J M. Michener, Red Deer; Third Vice-President, N
Sanastor, Ormstown, Que.; Fourth Vice-President Dr. Tolmie, Victoria, B. C.; Secretary-Treasurer
W. A. Clemons, St. George. Directors appointed

Ayrshire Breeders Have Pleasant Session Ayrshire Breeders Have Pleasant Session.
No sensational features develored in the
annual meating of the Canadian Ayrshire Bred-
ers' Association. However, a good year's busi
ness was reported, and the breeders went home pleased with their meeting; and the success of the breed. The President, A. H. Trimble, Red Deer, Alta., told the memters present of his experiences in Albenty-six years ago
The report of the Secretary, W. F. Stephen,
Huntingdon, Que., explained the financial condition of the Association, and progress as to membership. Last year the Secretary reporte of names of breeders long out of business. Names numbering 154 were struck off. There were also
45 resignations and deaths during the year; 174 new members were added to the list in 1915, so
on December 81 last there were 1,197 members. on December 81 last there were 1,197 members,
to be found in the different provinces as followi:
Quebec, 565 ; Ontario, 860 ; Alberta, 67 . Nova
 British Columbia, 21 ; and United States, 10,
During During the year there were recorded $\mathbf{3 , 6 8 2}$ pedi-
grees, 1,40 y tránsfers, and 68 duplicates and new
certificates, being certificates, being an increase of 188 pedigreee
and 43 transfers over 1914. Ontario loads in and 48 transfers over 1914, Ontario lincrease, with Quebec, Nova Scotia, Prince Edward Island and New Brusuwick following in
order. There has been a slight falling our in order. There has been a slight falling our in registrations in the Western Provinces, due to
trade conditions. Dairy fiests with Ayrehiree were satisfactory in the year just past. Ayrehiree Calgary and Brandon testear Ayrshires. won over
all breeds. For the Record of Perlormance test. all breeds. For the Record of Performance test,
598
entries
were recetved, and 182 cows and 598 entries were received, and 182 cows and
heifers registered in theis test in 1916. Oniy in the three-year-old class was a record brolen. The McPherson, Orkney, Ontario, made 14,060 10s. of milk and 534 lms . of butter-fat. During the year
ahout 30 ,head of Ayrshires were imported. The Secretary's report showed a cash balance of
$\$ 6,226.88$, an increase of $\$ 514.23$ after paying a liability of $\$ 1,374.48$, and $\$ 275$ on Volume 85
of the Herd Book. The state of the finances of the Herd Book. The state of the finances
shows the Aserciation to be in a healthy condtlon. Some discussion arose as to who ahoula
receite the diploma on bulls which sire Record of receite the diploma on bulls which eire Record of r importer, but the majority were in favor of hating the dirloma go to the owner of the tuth
at the time of ser:ice. Subse uent owners of the at the time of serice. Subse uent owners of the
bull can procure a copy of the diploma for 50
cen's.
The Vico-Presidents are the same as in 1915, except that J. H. Black, Lachute, Que., takes the tors for the ?Western Division were re-elected Diree one chanye in delegates to Fair Boards tools place, and that was with Otitawa, where the Association will
Secretary. Officers: President, M. Ste. Marie, Compton,
Quebec: Vice-President, W. W. Ballantyne, Strat-
ford Secretary-Treusurer, W. S. Stephen, Buntford; Secretary-Treusurer, W. F. Stephen, Hunt-
ingdon, Quebec; Registrar, A. R. Dawson, Ottawa. The Ayrshire breeders were entertuined at a nesday, Feb. 2. Speakers of the evening were Dr. C. C. James; Alex. Hume, Mentie, Ont.; H. A. Alberta; Dr. S. F. Tolmie, Victoria, B, C., and
Professor H, Barton, Macdonald Collige, who frovessor the visitors present with addresses along practical lines.

Jersey Cattle Club Have Good Year. There was a large attendance at the annual
meeting of the Canadian Jersey Cattle Club, neld pansion of the club's influence and a stropld ex. tion of stability were manifest by the financial Btatement of the past year, as read by Secretary beginning of the current yaare was hand at the increase of $\$ 700.22$ over that of a $\$ 1,964.65$, ap During the past year there were 1,065 regiotrabership of 11. The officers an increase in memPresident, F. L. Green, Greenwor 1916 are: President, D. O. Bull, Brampton; Second Vice Treasurer. B. A. Bull, Brampton. Directors: J. W. Pringle, London; म. H. Gee, Hegersville; J. M. Dolson, Brampton;

A grant of $\$ 25$ was made to the Dominion Government cars of pure-bred cattle for the Eastern and Western Provinces. It was also defided
to continue the grants re prizes for R. O. P. o continue the grants re prizes for R. O. P.
tests. An additional grant of $\$ 25$ was made to vided the winner was a Jersey. in Guelph, prowas empowered to inaugurate un advertising
scheme through the medium of the press and ther means to more prominently bring before the public the superior qualities of the Jersey as the ution, as brought before the amended Congtidorsation, caused a lefore the meeting for eneveral minor caused a Iengthy discu:

## $\underset{\substack{\text { La } \\ \text { Oant } \\ \text { foot }}}{ }$

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Act. The finame
on hand of $\$ 167$
representing the x .
dales: Walter Scot
Scart, Cumming's A.
Columbus; Peter Ch
Eenderson, Thamesford,
ham; Mo, Graham, Cla
ham; Mim, Graham, Cla
Markham; A. E. Major,
Beltong Robt. Graham
Green River; W. F. Batt
Johin Gardhouse, Weston
Weston; Percherons:
Beaverton ; M. Hamilt
A. E. Yeager, Simcoe

Toronto. Standard-Breds :
Wmonto; Geo. Pepper, Toront
Poniese H. M. Robinson, Toro
Clydesdale Breeders Consi stitution.
The most important, matter brough tion of Canada, at Toronto, on Thur of was the amended Constitution. A nothing definite resulted. Finally it cla to leave the matter in abeyance, and the Constitution to every to send a copy of th the next annual meeting. The for perusal urged breeders to be prepared to meet the or breeding stock, that was sure to come the termination of the war, by breeding all el the minute. It was their registrations up had come from Australia relative to the poss try. The securing breeding stock in this counsuperiority President, in his address, spoke of the draft breeds, and the Clydesdale over other vincial Associations to further the interests the Clydesdale breed. The financial report showed the Association to be flourishing despite the a slight falling off in registrations, but There was stantial increase in membership. The total rubceipts for 1915 were $\$ 10,318.77$, as compared the other hand the expenditures year, while on tion of $\$ 994: 09$ as compared with the a reducyear. The cash on hand at the beginning of the year was $\$ 9,604.99$, and the excess of assets
over liabilities was year are: President, John A. Boas Quefor the tors: Wm Mt, Wm. Graham, Claremont Quensville, Sutton; W Torrance, Markham. Richardson, Columbus; James James Henderson, Thamesford. T. Markham Bolton, Vice-Pres:dants for the T. D. Elliott Nario, Peter Christie, Manchester; Quobec, Robt Ness, Howick; New Brunswick, 'R. S. Snowball Prince Edward Island, T. Ross. Charlotteto Hax; Manitoba, John Graham, Carlerry; Saskatthown Alex. Mutch, Saskatoon; Alberta; E. D. Adams,
Calgary; British Columbatan, Calgary; British Columbia, Wm. Montgomery,

Shire Breeders Hear Good Report assembled for a large body of Shire breeders who ing of Thursday Februal meeting on the eventhe Secretary-Treasurer. G. de W. Green report of indicated that the breed itself had prospered dur ing 1915. The year was commenced with a carried over to 1916 a balance of there was should be considered, however, that durin. It $\$ 560$ was expended on printing Volume 3 as paid the Guelph Winter Fair The grant was also was levied for salaries at Ottawa 1915, and $\$ 50$ latter items have in the past been paid of which year following. Memleership fees were received in 1914. Registration fees compared with $\$ 104$ y lower. On the Statement of Mer, were slightOntario led with \$56; Alberta was naxt with fees, $\$ 8$; Saskatchewan with $\$ 32$, while Quebec $\$ 54$, , saskatchewan, British Columbia, and United
be Promoted.
the Canadian
'd on Thursday
1915 were re
the year pre: rom Great ards of sixty reived thin hows and
be glven



## ebruatty 10, 1916

Dominion Swine Breeders Discuss Resis tration.
Farmers from the East and West gathrred at
he annual meeting of the Dominion
 ers' Association, held on Friday, February 4sized the necessity of more co-operation in the handling of swine products.
Wercorrding red the Financial Statement, swine
 White, 1, ,655; Duroc jorsey, 1,3a7; Humpshire, 117, Poland China, S95. There were in all 9,718 registrationes, 1,507 transfers, 86 duplicates an
new certilioates, and $\$ 1,818$ in memberships. new certifioates, and $\$ 1,818$ in memperships.
The outcome of some discussion in the mee
was, that thine Executive Comsittee be authorizg to immediately, communicate with the Amerized
Swina Breeders' Association, with a view of SWina breeders Association, with a view of get-
tlig a recipreal standard of registration. J.E.
Brothour, Burfora, moted Brethour, Burford, moved that the classes for and that a class of butcher hoge be recommended as an addition to the prize hist of the Ottawa
Winter Fair. This motion was carrled unanimously. The Fixecutive and was carried un instructed to recommend to the Provincial were
that they make classes for all that they make clasess for anl recognized breeds
of swine. It was furthermore recommended the of swine. It was furthermore recommended that
the Duroe Jersey and Poland China be made into two classersey and Poland China be mande in
Conto and London. The new Conistitution was adopted by the Dominion Swine
Breeders without discustion Breeders without discuassion,
Officers elected: Preside
Osgode Station; Vice-President, P. J. Mcewen,
Wyoming. Sta onto. Directors: H. M.
William Jore,
Jones, William Jones, Mt. Eilgin; Herbert, Grantion Grand St.
George, Ont.; W. F. Wright, Glanworth, Ont.: Geo. G. Gould, Essex, Ont.; Alex. Hastines,


## ation for both Societies. The financial report

King Corn and His Courtiers Capture Chatham.

IHE FARMER'S ADVOCATE
Ontario Swine Breeders Convene
the Onvene. Breeders Association was held at Toronto, on Friday, Feb. 4. The principal business brought tion ar was the consideration of the Constituconte hratod wy the Bxecutive, which was accepted in its entirety. The grants to the varieutive. On motion it was decided to ask the recocutive of the Provincial Winter Show to Association insteand of the Dominion Swine Breed senting the various breeds reaulted offlicers repreing being elected: Yorkshires: Prof. G. E. Day, Fuelph; Wm. Joneg, Mount Erging, and John speare; and H. A. Berkshires: John Kelly, Shake-
Golson, Norval. Tamworthe: Gro. Douglas, Mitchell. Chester Whites : W. F.
 Treesirer, R. W. W. Wade, Loomingtom. Seoretary,
W. Green, Toronto. Auditor, G . de At the meeting
Prof. G. E. Day was elected TPresident, and Johnt
Berkshire Breeders Want a Common Standard.
the anesident H. M. Vanderlip, in his address at
Breating of the Ontario Berkchite growing demand for breeding stock the Society's attention to the neocesity and drew deavoring to arrange a reciprocal standard The meeting wy motion appointed the President. Vice-President and one Direstor, a commititee to
confer with the Executive confer with the Executive of the American As
soclation to arrange a common standar oo regls
tration for both Societies.
showed a cash balance on hand on Jan. 1 of
$\$ 317.56$. The fonlowing grants were mado to the various exhibitions: Canadian National, 875 ;


 Adam Thompson, Stratiord; Fraix $\begin{gathered}\text { Breandale, }\end{gathered}$

Yorkshire Breeders Assemble.
At the meeting of the Ontario Yorkshire Club, held on Friday, February 4, W. H. Englieh, Harding, Manitoba, explained what was being conditione West in order to alloviato marketing conditions when hogs become abundant, as they did in 1914. Cold storage plants and publlic Provinces and, when theno materialite, Mr. Eng lish thought a repetition of the marloeting condi lish thought a ropetition of the markoting cond1
tions of 1914 would not occur. tions on 1914 would not occur. J, Boesfeld, also
of Manitobu, explained to the tirteders present that the mail order businesss letween the presen Provinces an' Y Ontario might the develonet it thi would take care in cratinly the ewtive, if the ment. He edvised 3 , enough or the pis to lie dom, be made probably of onehall-inch traf, tif the animal was not too large.
The Club reported a cash balance on hand of
$\$ 379.18$, and the same grants wert maide to the fairs and exhibitionis as for 1915.
Officers: President, J. C. Stuart, Ottawa; tary-Treasurer, R. W. Wude Parliament Bulldinge John Flott, Directors
John
stant Kat, Hamilton; William Manning, Palmer Feather
Brethour, Burford.

The Ontario Corn Growers' Association held
their Annual Corn Ahow and Convention in
Chatham last week. year staged in the curling ex armories, which were not vevailable, because of the war. The large rink was filled with fine variety, of implements, machinery, etc., brought
out the fact vart the fact that corn machinery, etc., brought
our one of the most important factors in Candian agriculture, and up-
on it much of the succeas. of various other on it much of the success of various other
lines of business is dependent. Nearly every thing needed in the cultivationt, harvesting and ion were: a ditcher to drain the land, direre
 tivators to cultivate it to plant corn; corn culengines und cutters to cut it; silos to ensile it, barns and stables to house the cattle to eat it;
serparators to separate the milk from the cows separators to separate the milk from the cows
which consume 1 it ; pumps to bring the water to Which consurne it; pumps to bring the water to
water these cows; washing machinis to cleanse the clothes soiled in the handling of the corn crop; and everything in co:nection with corn
from start to finish was on exhilitition, even to automobiles on which to spend the money made
Jrom the corn crop Corn was King." On . On the whole the Show was a success. The
quality of the corr exhhibited was described wy
Prof at a Wisconsinisconsin, as being equal to any surprise that the corn showed as much expressed as it did in a wet season like the past. The
number of entries was about equal to those of lams year, and the lang about equal to thows of uniform, spllow
land
and white en and crowds each day ot of the show the attention of large
had a very attractive shbtom county had a very attractive exhibit, recommending Golden Glow and Wisconsin No. 7, as the best
varicties for the county. Tho Kent Centre Farm-
ers' Club ocunied large crown built of corn, and covering, with a Kent county farm. This exh.bit attracted a great deal of attention. Longfe'low and Salzer's North varieties, and Bailey and Whisconsin No. 7 were
outstan outstanding among the Dents. The Dent Corens
contained Flints were well matured throughout. The grain axhike, four of containing about six entries of each of armarfa, flax, rye aur poasc about twenty
of beans, firteen of and wheat fitteen of oats, and eight each of barley

## Curing, testing and disseminating

The program of adidresses contained the names
of several well-known corn prowers and esed experts, moseral well-known corn growers and seed ex-
Prof. R Proh. R. A. Moore, of Wisconsin. Prof. Moore,
in his address on Curing, Testing and Dissemina-
plan of Corn, pointed out that the benefit from
ing. Tost unless attention is paid to cur
Testing is ing. Testing is all right, but $90 \%$ of the im.
portance is placed on the curing. Corn should

show 90 is show 90 to $95 \%$ vitality. When cut it containg to 10 to $12 \%$ in drying. Which should be reduced | ing is a free circulation. of air. $\begin{array}{l}\text { ascret of kilin-dry- } \\ \text { will spoil. } \\ \text { Prof. Moore advised smait it, corn }\end{array}$ |
| :--- | will spoil. Prof. Moore advised small building , many necessary of cheap construction, in which

musheds are made to let in the air. Slx many holes are made to 1 let in the air. 5 Sx
bushols of seed corn will plant 36 acres, in
cordance cordance with the chec $\leq$ prow system, 42 in inches each way, four kernels to the hill., Thns much
could be dcied in the house. Prof. Moore advised putting a corn tree in the parlor, and to
arran arrange the earss so they will not touch one an-
other, open the windows and dry the corn. Corn should never be placed near the south side of a germination. After drying, the corn should not be placed in a room where it will take on outside There are four things which proather sets in. mended to be remembered about corn: First, that it should not be dried in the diriect rays of exposed to zero weather, third, corn should have
free circulation of, air the first fow days while free circulation of, air the first fow daus
killn-drying; fourth, corn should be placed inile kiln-drying; fourth, corn should be
dry room free from rats and mice.
In selecting corn, always pick out well-formid
ears, and those which show earic, and those which show early maturity.
Pick the corn as
soon as the husk turn yellow. A light frost will not injure it. ime laver part of the growing season seoms to the ears which are attached to the etock, seloct three feet from the ground. In selection from the rows, study the corn in the milk stage, and husking. Corn should hiscard bad ears arter husking, Corn should be put in curing place the ears will plant one acre, four kernels to the hill 20 Prof. Moore advised testing the corn in a box 20 by 40 inches, laid out into one-inch squares,
 min. Ation should be discarded. Soed from the butts and tips should not be ussd. Prof. Moore cited, as the best means of disseminating good
seed, the work of the Wisconsin Experiment sociation, an association founded on much the same principles as those of our own Agricultural
and Experimental Union.
The member Association are men who have takenbers of the the the
short course at the shorl course at
awake to the needs and advan'ares of good meed. Professor Moore described the Nursery and Contgener methods of hreeding seed grain and corn, adopted at the Wisconsln College. In arain
3,000 seods of a certain variety are planted a nurgery bod, plants four inches apart in the
haeds are selected from the 3,000 , and the ten Thise are retained from the second-year beds. plots, containing 100 plante besities the ontgener rows, each plant having within it the progeny of six heads are selected from. The first ave or in heads are selected from the best plants Oollowing year and the procetained repeated the
third ycar and fourth year. third ycrar and fourth year. process repoated the ontire Contgener
plots, of which there are plots, of which there are ton for each varioty of gratin, are compared and har vested, Slix plots
are cast out, and the four best retained for in creased plots, The fifth year one gquare rod in sown, which is increased to one tenth of an acre the sixth year, and the acr-plot tha eventh year.
By the eighth year the twenty-acre plot is By the
adopted.
In corn breading the ear-to-row method of
selection is adopted. Four standard varieties of
Wisconsin Wisconsin corn were bred up, and twor, Golden Glow and Wisconsin No 7 , selgeted. Five hundred
corn plants are marked in the mik stagu tred corn plants are marked in the mikk stage three
hundred are maved from these and kiln drite $t m$. temperature of 75 to 78 dogrees. Another hundred
ears. ears are thown out, leaving two hundred ears. All the kernels for row 1 ere taken from
one ear, and for row 2 from one ear, ete., so
that the entire row one ear, and for row 2 from one ear, otc., so
that the entive row 1 s from a single ear of conn Selection is made again the following fall, only
taking those rows taking those rows of a uniforminty of typpe
througchont onty throughout. From this system it was folnd
possible to increase the yield of seed ears three porsible to increase the yield of seed ears three
or four times. Prof. Moore placed the valio good seed corn at $\$ 3.00$ per bushol, and compared it with the value of ordinary, corn at 60 ,
cente a bushel. A variety may be made to double its former yield Ay breariety may be madio to double sin the Wisconsin No. 7 variety is nown giving 35
to 40 per cent seed ears, while hefore to 40 pre cent seed ears, while belore improve ment it did not give more than 8 per cent.
The work of the Wisconsin Experimental sociation has had the effect of etarting a seed centre, wherever one of its members ferior variety has succoeded in eliminating the in that in most sections too many varieties Srown lor the good of the farmer and his crops. the member is allowed to use the association tag to sell his produce at a fair price. Prot. Moore
bellieved that the demonstration of thee believed that
fields of corn letins that would worth more than all the bulHe deplored the fact that very on the the bubject. bovs of the farm were educated for some other were kept at home for considered not so clever the old method of sentiment to keep the boys on the farm. You must have more than sentiment, if the bright boys are, going to stay on the tain.
and they must have something for it. In this fifty-two contests in county fairs in Wisconsin, on for children, and 26,000 boys and girls took part. Prof. Moore cited cases where young lads
trained in this way were now selling from 100 to 500 bushels of seed corn yearly, and some of
the young farmers in the seed centres were sell. ing as high as $\$ 20,000$ each of seed grain. Hell-
addresses were listened to with a great deal addaresses were listened to with a great deal of
interest by a large and enthusiastic audience. Deputy Minister of Abse C. F. Balley, Assistant B. S. A., explained the moving pictures relating $n$ address on birds.
Judging intereming feature of the Show was the Juaging Competition for boys, which was con-
ducted by Prof. R. A. Moore, and Prof. C. A.
Zavitz. In describing this work Prof. Moore went into the score-card, and explained. to the
boys that they would judge corn much the wame as they would judge live stock, as to size, conboys took part in the first day's competitlon. Branch of the Dominipesentative of the Seat Branch of the Dominion Department of Agricul-
ture, spoke for a short time on the production of corn, in Nove Scotia. That Province, Mr. Mo Moore
stated, would require a variety of corn which woutd produce 15 tons of ariage per corn which
corn should
The corn should mature sufficiently to malke a good
quality of silage. Some few experiments, the
speaker said, have been conducter sults. On the college farm iucted with good reties, of Flint corn, and at least one of Dent H. In the absence of the
H. Clark, the question of Seed Commissioner,
dealt with by E. D. Eontrol wa dealt with by E. D. Eddy, of Ottawa. In inn-
troducing the subject Mr. Edidy mentioned that
not a few samples. not a fow samples of seed corn failed to give and germination. With respect to general quality price is paid, might be included tor which a high Seed Corn Control Agreement, as outlined by the and purchasers of high-clars seed coron, was preAt the annual business meeting of the Associa-
tion the Seed Corn Control Agreemènt was read to the members in attondance. At the conclusio of the discussion a resolution was passad appro ing of the proposal
SEED CORN
Any corn sold under the Agreement is there of the Department of and test by the Seed Branch o guarantee the quality to purchasers unda, and 1. The nam:
seed. Coro namo of the variety and the grade of
siving ruotation bo tiven when advertistng and

 attached thereto.

 on Thrades: Exta shall be as follows: (a) quality for the grades
shall consist of corn shall consist of corn on the ear, containing at
least $45 \%$ of sjund, well-developed ears that are
unllform unliform and typical specimens of the variety In a special corb-drying house, or by siome cured approved method as dist:nyuished from the ordinof the average of ear test muation on the basis $90 \%$. (b) No. 1 seed corn mhall not be less than on the ear containing at least $90 \%$ of sound oorn mat are reasonably uniform and typical specimo the basis of the named; and the germination,
on average of ear test, must be not less than $90 \%$. (c) No. 2 ssedd corn shall
consist of corn on the ear containing an shat consist of corn on the ear containing at shall
$85 \%$ of sound ears of the variety named; and be not less than $85 \%$. seed laboratories and of ingpectors, will trender it possible assistance in sampling and testing seed,
but the grower shall marking on the crates or sponsibse for correct seed corn, or on the tags attached containing the thereto.
5. All "controlled"" seed purchascras. If the mampling corn weed inspectors or or purchascrs. If the marking on a lot is ques-
tioned, a representative crate or sack will. Le
taken as a sample. All samples shall In the presence of one witness. shall we the taken
shall be sent to a seed corn rese. The samples named by the Seed Commissionere of the shall be ment of Agriculture for Canada. of the Depart-
after making such investigation res he refee,
necessary necessary to decide whether the corn at the deem
of shipping was wrongly brandeid will of shipping was wrongly brandeid, will decide the
grade on the basis of general appearance, quality,
and the germination test.
by an inspector official grading must be taken from the time the shipment is received by the purchaser, and when sent to the referee for grad ing shall be accompanied by a statement signed glving witness, and the person taking the sample, name the name and address of the grower, the on the packa the number, of crates or sacks in the lot. A and inspector may sample the shipment anywhere in transit, as under the Seed Control Act.

## samples to the referee for fficial When sending quality is suspected tor othcial grading, if the

 the terms of this agreement lof sale, shall be sen by the grower to the purchaser with every ship ment of seed. These forms will be supplied by Agriculture for Canadaiven th case the sample sent for onficial test is given the same grade as it was marked by the the sample only. If, in the opinion of the of the grade marked, the grower only shall first be notified.
will be considered, provided that the the referee from the grower, reaches the referee within if clays from the time the report was mailed to inspector, reaches the the if from the purchaser days from the time the report was made.
of Appeal to cas 38 will be placed before a Board to be nominated by the growers, and one by the ture for Conaissioner of the Department of Agricul11. In case an
convening the Board will be loorne by the the o making the appeal. If the appeal is sustained. Agriculture for Canada. 12. At the expiration
appeal, or when decision is cise limit for cases, reports on samples that have been appeal
lower than they have mailed to the persons who sent marked, will be the growers will be notified to make settle, and in accordance with the terms defined in the two 13. In case the
by an inspector or purcheser sont for examination than it was marked, settlement shall be mader on the following basis
seed under the purchaser is willing to accept the seed under the grade given by the referee or made corresponding to allowance in price will be

## Ontario United Farmers in Annual Session.

## Farmers of Ontario, and the second annual Shar <br> telure

 holders' Meeting of the United Farmers' Co-operative Co., Ltd., were held in Torouto,
Februry February 2, 3 and
The financial statement of the United Fariners business had been done. showed that a good year's millions or over three hundred thousand dothird of a a Company whose witans during the year, of which less than $\$ 5,000$ was subecrit $\$ 10,000$, has been demonstrated that it is possible for on a sound basis, buty the do a large business necessary that more of the Company found it subscribed, and more of the authorized stock be
at the meeting. The meeting.
Composed of of Directors elected for 1916, is smith; E. C. Drury, Barrie; C. Tuoser, Whitrow-
Williamshurg. Whittaker Powers, Org, Geno, Warlaw, Warkworth; A. A
Preston. Good, Paris. Anso Pritchard, John Z. Fraser, Burford; John Gurney, Paris; and L. Schnurr, Shallow Lake. W. Un men who are directly connected with thit pany, including or with the Co-operative ComTolm, including addresses by Anson Groh, John Z. Fraser and others. One of the best addresses Crerar, of the Grain Growers' Grain Co T. A.
difficulties to overcome clearly that there are mane the canital must necessarily be held difmers wany different men, often liviņ far apart. This most of the capital is held by companies where control the business. It was shown clearl who that any company to be a success must herand and W. L. Smith, to carry on the work. Drury painted a rather dark picture, and E. C.
(b) If the purchaser does not wish to accep the seed on the basis of the lower grade he may pay transportation charges bo'h ways, to promptly refund any money that may have been
14. Settlement for samples sent for official
test shall be made as follows : (a) If the sent for test conforms to the grade marked the person from whom the sample was received the lose the sample and bear the cost of shipping it not conform (V) If the sample sent for test does who sold the seed wiil loss the the grower bear the cost of shipping of Agricule Seed Commissioner of the Departiment betical list of canada will publish an alpha-: trolled seed, which will be distributed to ensilage growers, and otherwise advertised
cancell This agreement with the grower may be Seed Co at any time if, in the opinion of the culture for C'anada, of the Department of Agriculture for Canada, based on the report of the
referee, the grower is not fulfilling hi referee, the grower is not fulfilling his obliga-
tion. A third offence in shipping seed properly marked will be sufficient for cancella
ontario's cultivated crops. Professor C. A. Zavitz, of the Ontario Agri-
cultural College, outlined the growing of culticultural College, outlined the growing of culti-
vated crops in Ontario, especially in the southern part of the Province. In 1915 there were 758 ,509 acres of corn in Ontario, while potatoes were grown to the extent of 173,934 acres, and roo crops were about as extensive as potatoes. There
were 62,836 acres of beans produced total of $1,163,858$ acres, valued at $\$ 35,000$, 000 Investigations carried on at the Colloge, 00 on farms showed than an exceedingly small per centage of corn will comply with the standard circumference of ears, and number of rows car Prof. Zavitz urged bean growers to plants in the growing field, believing it would Constideralle best sources of supplying good seed. anthracnose had been carried conn with bean In connection with field roots Prof. Zavitz stated that seed of good quality could be produced in yields tha and homegrown ssed gives better yields than imported seed. Reference to potato varieties as brought out in our report of the meeting of the $\Lambda$ gricultural and Experimental Union, published in our issue of Jan. 20.
Offce-s elected were: Hon. President, Byron Ofice-s elected were: Hon. President, Byron
Robinson; President, Robt. Knister President, Lester Gregory: Second Vice-President,
L. D. Hakinson; Serretary, J. W. Noble; themselves and are prepared to armers organize tingencies incident upon the outcome of the con-
flict. man labor would be ceaker prophesied that wo 1916, and he could not see anything but poor
crops ahead for 1916 and 1917. He also predicted an increase in tariff, which would only them in the pockets of of the producer and put forecasted a bankrupt world when the wrury citizenship in the reconstructions must represent tions must extend themselves. Farm organizago so far as to go into the manufacturing business, and to form an industrial commonwealth
He emrhatically has erushed the individual that militarism, which In poan powers, must not in the Central Euro In his opinion the real fight will commence when peace is made, and it will be then that the khope F $C$ farmer.
F. C. Hart, Director of the Co-operation and
Markets Branch of the Provincial Government gave an interesting address, in which he pointed out the need for organization on a proper basis. ing off till the last, because they put the selldo it while the fruit minute, and attempted to their station. While such growers found it difflcult to dispose of their fruit at a fair price, other markets were not getting fruit enough to work of the Manitoulin Island wited the case of the sociation, already described through these should be started where there is a porgan business associations should be selieved that the men forming as little' trouble as posilible worked in, so that wards. Small organizations he deemed advisahle, and he advised no organization to start
w/thout plenty of capital, and a competent and
efficient manal efficient manager is absolutely necessary. He also tine fact that a co-operative when he mentioned

## FOUŃDED 1866

 sis of the lower grade hatep question，the grower t money that may have beed
## for samples sent for offlcia

 rms to the grade marked，the d bear the cost of shipphng 11the sample sent for test does eo grade marked，the grower
will loss the sample and aipping
ommiss Canade will or the Department growers who are silling con－
will be dilatribute will be diltribu
wise advertised． hent with the grower may b of the Departmiment of Agre
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cultivated crops Zavitz，of the Ontario Ag
tined the growing of cul espeeizally in the of cuthiti－ In 1915 there were 758 $t$ of 173,934 acres，and roo extensive as potatoes．Ther
theans produced，making beans produced，making
acres，valued at $\$ 35,000,00$ ．
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comply simply to lengthe of
and number of rows． ed bean growers to．select
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urces believing it
und urces of supplying good would a carried on an thith bollege uality could be produced in megrown．sed gives better
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ricultural and Experimental our issue of Jan 20.
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Hon．President，
$t \underset{\text { Vice－}}{\text { Byron }}$

## al Session

war，unless farmers organize
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ropared meet the con－
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and 1917 poor
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arife tariff，which would only
of he producer and put
of anufacturers．Mr．Drury
m． ${ }_{t}^{t}$ world when the war is 1struction．Farm organize
selves．They may have
to the manuuacturing tus industrial common wealth hat militarism，in which will commence when
be then that the kiope the farmer．
of the Co－operation and
Provincial Government． dress，in which he pointed
ization growers had dificusity
ause they put the sell was beint attompted lo to growers found it diffl－
fruit at a falr price， getting fruit enougt to
Hart cited the case of the
Island Wool Growers Island Wool Growers
escribed there is a organization
sed that por business
sel ved that the men forming
selected carefully os：ible worked in ather－
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lity necessary．He als
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tive also

FEBRUARY 10， 1916

## CHE FARMER＇S ADVOCATE．

tend strictly to business，and leave matters of The Canadian Sale of Shorthorns
religigion politics， Wednesday，February 2nd，1016，a large number on stockmen assembled for the Annual Consignmen Shorthorn Sale，which is conducted under the manager
ship of Robert Miller，Stouftwille，Ont．The Prairie
Provine patrons of the breed from the East were presend severa． tario breeders，however，made up the major part．of the
attendance，and fortunately for the Prover animals that commanded the high prices were retained at home．The 58 head sold were cososen frem the th
following breeders＇herds：Robt．Miller，Stouff ville A．Watt breaders herds：Robt．Miller，Stouff ville；J．
A．Whara；Kyle Bros，，Drumbo；John Miller，jr． Ashburn．On the whole，the quality of stock offered
was superior to that which made up the sale last year was superior to that which made up the sale last year
and the prices were better．It was indeed a good sale and the prices were better．It was indeed a good sale，
and many excelent animals，both male and female，
changed hands．This amnul event has established a comention which attracts a great number of men who
sale wrep to buy stock．The highest bid of the sontributed by Jlace ．Watilage Rose a yearling heifer
canimal was sired by
Gainford Ideal Gainford Ideal，making her a grand－daughter of Gain honorable results．J．Watt and Son of Salem ind 19 with buyers．Another heifer，Princess Maud＇s 1 ast were the Gainford Marquis，was purchased by Pettit Bros．，Free－
man，Ont．，for $\$ 560$ ．The highest priced bull was Cup． man，
bearer，noe of or Kyle Bros＇consignniment．This young bull，
which was exhibited last season and just
 Another good bull which elicited brisk bidding was
Oak Bluff Monarch，which cost J．M．Gardhouse， Weston，S435．As on former occasions，the sale was
well conducted，with Capt．T．E．Robon and George
Jackson as auctioneers．Followin iso Jackson as auctioners．Folliowing is a a list of the
animals selling for $\$ 100$ or over，with their purchasers： FEMALES． Fame＇s Bloom，R．Cumings．Elora．
Matitla thth，M．Abercrogbie，Meaf
Village Rtse，J．Watt \＆Son，Salem． Eliage Rose，J．Watt Dolphin，Tara．．
Roan Lady IOth，G．Roberts，Elora
Rol Glen Buell Clipper 2nd，A．．G．Farraw，Oakviile．
Glen Buell Clipper 8th，Harry McGee，Islingto Miniature Adart，C．D．＇LLegan，Bobcageon
Orange Lady Sth，Geo．Ferguson，Salem．．． Orange Lady Sth，Geo．Fee
Estelle Thh，Harry McGee
Golden Flash Hery Mch
Soctish Primrose 4th，W．D．Dyer，Oshawa
 Lady Lind 8th，Harry McGee．．．．．．
Crimson Fuschia 28t，G．Roberts Clara C．4th，J．G．Barron Carberry，Man． Claret Princess 18 th，Pettit Bros．，Freeman．．．．
Princess Maylower，W．A．Dryden，Brooklin． Roan Lass，J．E．Morden，Cainsenile．
Mina Princess 5 th，W．C．Vander w Laura Buckingham，Pettit Bros． Canterbury Belle，Jas．Forgrys．．．．．．．．．．．
Princess Maud＇s Last，Pettit Bros．
 Cresent Maytiower， ．Hi Carnahan．．．．．．．．．．．．．．
Yearling heifer，Geo．Kirkpatrick，Oro Station Leady Ythan nd T．．Baker，Solina．
Walnut Missie 5 th．Harry McGe Heifer calf，E．Brien \＆Son，Ridgeto
Glen Buell Mildred 8th，Herb．Lee， Glen Buell Mildred 8th，Herb．Lee，High gate．．．．
Gien Buel Mildred 9th，C．D．Logan，Bobcage

## MALES．

 Wedding Master，Jas．McIntosh，Seaforth Gedden Prince，J．W．Sinclair，Tara Lovely King，Hon．Peter Talbot，Lacombe，Alta．Grand Sultan，W．H．Hartin，Twin Elm．．． Jack，Hon．W．C．Sutherland，Saskatoon． Claret Prince，J．L．Walters，Clive，Alta． Golden Sultan，Jas．Crerar，Chesley Station．
Lavender Master，Ratclife Bros．，Stouffile Lavender Master，Ratcliffe Bros，，，Stouff ville， Lavender King，Muckingham，Emerson Nye，Nanticroke Falls Lind Gold Finder，Wm．Martin，Inglewood． Sultan Stamford，E．B．McCinnon，Rockwood Prince Robert，J．Bossield，McGregor，Man
Sea Gem＇s Pride Kyle Bros．，Drumbo Cupbearer，Jothn Strachan，Pope，Man
Sittyton Seal，W．C．Wilson，Locust Hil Sittyton Seal，W．C．Willon，Locust Hill．．．．．．to
Oak Bluft Monarch，J．M．Garhdouse，Westo Mak Buff Monarch，J．M．Garndouse，Weston Wesward Ho 2nd，J．G．Barron． Scotch Diadem，C．A．A．Arribibald，Truro，N．S．
Kilblean Secret，R．E．Coulthard，St．Mary＇s

## The Subterranean Heating Co．

［ Ontario Vegetable Growers in Session
Growers＇Association of was held in Torontable January 31．After the regular business incident to the annual convention was transacted，the fol－
lowhy
lowe ofticers were elected：President，F．F．
Reeves，Humber Bay，Ont．First Vice－President．



Although I have lived in both the city and the
ountry，the difference between the two never came coumt to me so forcibly as durine the paver came
homent．
During the past few weeks I have spent about as much During the past few weeks I have spent about as much
time in one as in the ther，and have had a chance to compare the point of view of city men and country men．
In the cities they are keyed up to an almost feverish excitement．In many lines they are having not only
＂Business as Usual，＂but more business．But business is not the only department where the pace has been
increased．The social pulse is beating high，and ap－ parently people must have something going on every
minute．In business everything depends on what this
mor
in public policy．Socially，everything depends on what do．In all their activities city people are depending on the leadership of others．No poeple are depending
onine seems able to do things alone．There must be a＂movement＂of some kind in order to accomplish any thing In It the country
it is different．Everything is keyed to Nature rather than to man．The sunrise and sunset，the winds and the storms affect our actions，Ourset lans are made to
conform with the seed－time and the harvest，and man makes his plans independently of others．In the would merely remark on the fact and then purople the electric light and go on with＂＂usiness thorn on than
usuall＂But if the sun did not arise with mus，and if would be at an end and because the lives of the peopld woulde at an end；and because the lives of the people
in the country are keyed to the great serene phenomena
of Nature，their lives are more serene and vital．
Another thing that struck me in the city was the
almost complete disappearance of the indvidual almost complete disappearance of the individual in
business．Practically every man 1 met was either an
official or an emplo official or an emplityeery of an 1 met was either an
corporations with which they were corporations witm whice the a werporation．And the
prosperin becuused weote the business activity due to the
war war．Hen Sir John Willisonsistated that int itue to to the bo
a disgrace for any man to be richer at the cloce of the
war than for
 methods．When business is conducted dy corerporations
their chief end is to make money，and it
impo impossible end place the blame on，anyd it is practically
making is dispracefully large．You making is dispracefully large：You cannot successfully
bring home discrace bring home disgrace to a corporation，If a man hap－
pened to be a shareholder in a company，that has made
arge profits on account of Parge profot son account of the wampany，that has made
him ii he receives larger dividends or io the blame him if he receives larger dividends or ii the value of his
stock goes up，ayy more than you can blame a farmer
if he hapens to yet a better ou co 230 if he happens to get a better price for his grain．In
170
spite of Sir otho
to be enriched becausen se the cark，many men are 70 to be enriched because the corropation mirom are suich
500 they derive profits has been succesful in its enterprises． They derive proits has been successful in its enterprises．
The corporate ide in in business has to a lerter
removed business from the contro to group of men，all of whom are nicely conscience．
their persoun it
italings with their fellows，miay form a corporation that will not show a araceows，concien form and
they will all hold themselves guiltess．Besides and they will all hold themselves guilteless，Besides pro－
moting more eefficent business methods a corronation
enables those who proft by it to a
 ment and out of it regarding war profits，grafting pand
other illicit means of accumulating wealt，it is very
noticabile that few individuals have come in for direct noticeable that few individuals hase come in for direct
censure．In almost every ase it wase as
that did the gratting or crooked business．Thisation
This leads
230 controling interestl content himself the stock and with holding a
170 in a fettle down

170 controning interest in the stock and will settle down a
200 int ashonable suburb to live an admired and respect－
aife．He will cover his horns with

and spats，And he will never be behind in his tithes
of mint，anise and cummin while the work of corrupting
the worl is bieng vigorously pushed by the corporation
which he controls vigut the world is being vigorously pushed by the corporation
5 which heo controls，but for whose conduct he ran deny
velopegal responsibily．
veallo

## 它云

$$
\begin{aligned}
& \text { quarrel with them, especialy as they can show with } \\
& \text { such pathence arrestnes othat they yare not to bame. } \\
& \text { I am wondering if one of the after-effects of the war }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I am wondering if one of the aftereeffects of the thar } \\
& \text { will be the controf of corparations, so that we can live } \\
& \text { with them on neighborly terms. }
\end{aligned}
$$

Plowmen＇s Annual Meeting．

$$
\begin{aligned}
& \text { The local branches of the Plowmen' Asocle- } \\
& \text { tion were practically all represented at the aat } \\
& \text { nual meeting of the Onterio Plowmen't Atsoctio }
\end{aligned}
$$

$$
\begin{aligned}
& \text { tion, hell In the Canadlan Foreeter's Hall, Tor- } \\
& \text { onto, Fet. s. Very succeosell plowing matche } \\
& \text { were held by the local aseociations during the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { were held by the local aseociations doring the } \\
& \text { past year, and tho Ontario Provincial Mratch, held } \\
& \text { at Guelph last November, was considered the blg. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ers and farmers soms. Plans were made where- } \\
& \text { by the Aspociation would furish an expert plow- } \\
& \text { man to assiat at plowiny do non tratione }
\end{aligned}
$$

$$
\begin{aligned}
& \text { man to asision at plowing de non trations arranged } \\
& \text { Tor by the District Representatve of the Do } \\
& \text { partment of Agriculture. One hundred and torty }
\end{aligned}
$$

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\begin{aligned}
& \text { incial Match, was forwarded to wounded Can } \\
& \text { adian soldier at Fokestone England } \\
& \text { Followis aro }
\end{aligned}
$$

$$
\begin{aligned}
& \text { adian soldiers at Fol kestone, England } \\
& \text { Following are the officers: Presiden }
\end{aligned}
$$


 Toronto；Treasurer，T．A．Patterson，Elesemere．
Executive ：F．Weir．Artincourt，J．Molean，Retch－
mond Hill：W．W．Barrie，Galt．Wm．Doherty：

$$
\begin{aligned}
& \begin{array}{l}
\text { Which we complain are due to the operations of covilo of } \\
\text { tions, while the men } \\
\text { them are esuch nice fellow control hermen and proifi by }
\end{array} \\
& \begin{array}{l}
\text { them are such nice fellows personally that one cantot by } \\
\text { quarrel with them }
\end{array}
\end{aligned}
$$

Toronto, Montreal, Buffalo, and Other Leading Markets.

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| ves |  |  |  |
|  |  |  |  |
|  |  |  |  |
| hog |  |  |  |
| active; pricess frrm, at last woek's |  |  |  |
|  |  |  |  |
| ice heavy export steers, |  |  |  |
| good butohers', 87 to ${ }^{\text {a }}$ \$7.50; cows, 85.50 |  |  |  |
|  |  |  |  |
| to $\$ 6.70$; bulls, $\$ 5$ to 87 ; stockers and feeders, unchanged; milkers, \$60 to $\$ 95$ |  |  |  |
| calves, 85.50 to $\$ 11$; sheep, $\$ 6.50$ to |  |  |  |
| s8.50; lambs, $\$ 10$ to $\$ 12.50$; hogs, $\$ 10$ to 810.10 . |  |  |  |
|  |  |  |  |
| Review of last week's markets |  |  |  |
| The total receipts of live stock at the |  |  |  |
|  |  |  |  |
|  | $\begin{aligned} & \text { jity sud Union } \\ & \text { lest week were : } \end{aligned}$ |  |  |
|  |  |  |  |
|  | 189 | 3,213 |  |
|  | 617 | 6,381 |  |
|  | 254 |  |  |
|  |  | 25 |  |
|  |  |  |  |

## The total raceirts of live stook at the two markets for the correspondlng week two markets of 1915 ward

|  | City. | Uion. | Total. |
| :---: | :---: | :---: | :---: |
| ${ }_{\text {Cars }}^{\text {Catie }}$ | 29 | 259 |  |
| ${ }_{\text {Catile }}^{\text {Caga }}$ | 310 | 3,093 |  |
| eep | 478 | 677 |  |
| ves | 20 | 287 |  |
|  |  | 525 |  |



 Chion oocinpte work the past weok were the




 100. it is., and radio revoverad a litite
Trom its alugribnese, but the advance










 Choice lambe to 81.550 chroic light owes
and wether
 all mall aut weero bolow the recipts imand the outlook tor the prosent is that hirth
 $\substack{\text { mentit } \\ \text { mony } \\ \text { possilile. }}$






## common $\$ 4.75$ Bit bit

Mikers ar
to $\$ 65$
$\left\lvert\, \begin{aligned} & \text { Veal Calves.-Choice at } \$ 10 \text { to } \$ 11.25 \text {; } \\ & \text { good at } \$ 8 \text { to } \$ 9.50 \text {; common and light } \\ & \text { at } \$ 5.50 \text { to } \$ 7.50 \text {; heavy fat calves at } \\ & \$ 7\end{aligned}\right.$
 Fort Canada Western, 44 Itc., in store,
 in store, Fort William.
Rye.-No. 1 commercial, 98c. to $95 \mathrm{c} .$,
according to freights outside; rejected. 83c, to 85c., accomding to sample.
Buckwheat-Nominal; car lots, 78 c . 79c., according to freights outs,
Barley. -Ontario, good malting,
64c. Bariey.-Ontario, good malting, 64c. to
barle, acoording to io freights outside, feed
b7c. to 60c., according to freights barley, 57 c . to 60 c , according to treights
outside.
American' Corn.-No. 3 yellow, new, 831 c c., track, Toronto.
Canadian Corn. - Feed, 76 c . to 77 c .,
track Toronto Peas.-No. 2, $\$ 1.80$; sample peas, a
cording to sample, $\$ 1.25$ to $\$ 175$. Flour.-Ontario, winter, $\$ 4.90$ to $\$ 5.10$,
according to sample, , prompt shipment. Manitoba four-Prices at Toronto were
Firsto First, patents, $\$ 7.20$; second patent
$\$ 6.70$, in jute; strong bakers', $\$ 6.50$
jute, Jute; in cotton, loc. more.
HAY AND MILLFEED. No. - Baled, car lots, track, Toronto,
No. $1, \$ 18$ to $\$ 18.50 ;$ No. $2, \$ 14$ to
$\$ 14.50$, per ton, track, Toronto.
Straw track," Torcnento. car lots, $\$ 6.50$ to $\$ 7$
Bran., $\$ 24$ per ton, Montreal freight,
horts, $\$ 25$, Montreal freight. middlings, shorts, $\$ 25$, Montreal freight; middlings,
$\$ 26$, Montreal freight; good feed flour,
per hay $\$ 1.75$ Mer COUNTRY PRODUCE.

## thutter.-Prices remained stationary $o_{n}$, wholesales during the past week

 Creamery freshi-made pound squares, weekto 36c.; craamery, cut, 34. to 35 c
creamery solids, 34c.; separator dairy
33c. 33c. to 34c.
Eggs.-While new-laid eggs remained stationary, selling at ase. ase. per dozen,
there was a firming tendency with lighter receipts. Cold-storage eggs, 30c. to
38c. per dozen.
Cheese.--New, per 1 b .
Honey, -Extracted, 11 lc c. to $12 \frac{\mathrm{k}}{} \mathrm{c}$. per
pound; combs, per dogen
Beans.-Primes, $\$ 4.20$; hand-pieked




Montreal.
$\qquad$




yearilings,-prime, $\$ 8$ to $\$ 8.75$; yearlings,
common to good, $\$ 7$ to $\$ 7.75$,
cown Comon to good, $\$ 7$ to $\$ 7.75$.
Cond vHeifers.-Prime weighty heir-
ers, $\$ 6.75^{\circ}$ to $\$ 7$; best handy but ers, $\$ 6.7^{\circ}$ to $\$ 7$; best handy butcher
heifers, $\$ 6.75$ to $\$ 7.25$; commo to heiters, $\$ 6.75$ to $\$ 7.25$; common to goos,
$\$ 4.50$ to $\$ 6.50$; best hend $\$ 4.50$ to $\$ 6.50$; best heavy fat cows, $\$ 6$
to
$\$ 6.25 ;$ good butchering to $\$ 6.25 ;$ good butchering cows, $\$ 5.25$ to
$\$ 5.75 ;$ medium to fair, $\$ 4.75$ to $\$ 5$; cutters. $\$ 3.75$ to $\$ 4.25$; cangers, $\$ 3$ to
$\$ 3.60$. 8.
 Stockers and Feeders. - Best feeders, to $\$ 6$; best stockers, $\$ 6$ to $\$ 600 \mathrm{~d}, \mathrm{~F}, \mathrm{~s} .50$ mon to good, $\$ 4.50$ to $\$ 5.75$; go jo yearings, $\$ 6$ to $\$ 6.50$; common, $\$ 4$ to $\$ 4.75$.
Milkers and
Springers. $-G$ pod in emall lots, $\$ 75$ to $\$ 85$; in to best, $\$ 60$ to $\$ 70$; medium to fair, in small mall lots, $\$ 45$ to $\$ 55$; in carloads, $\$ 45$ to $\$ 50$; common, $\$ 30 \mathrm{to}_{0} \$ 40$.
Sheep and Lambs.-Market on lambs Sheep and Lambs--Market on lambs
last week was pretty uniform. Monday
tops sold up to ket was steady, and Wednesday Thurs day and Friday a few choice loads reached up to $\$ 11.50$. Cull lambs most-
ly. $\$ 10.25$ down, and top for yearling was $\$ 10$. Sheep were for yearlings the fore part of the week, and Friday for Friday beingained, sheep quotations wethers, $\$ 8$ to $\$ 8.25$. follows : Choice to $\$ 8$, and ewes, $\$ 7.50$ to $\$ 7.75$, around 18.500 Receipts last week totaled head for the week previous, and 30,100

## Chicago

Cattle-Beeves, $\$ 6.40$ to $\$ 9.60$; cows:
and heifers, $\$ 3.20$ to $\$ 8.25$; calves, $\$ 8$
Hogs.-Light $\$ 7.50$ to $\$ 8$; mixed, $\$ 7.60$號 $\$ 8.05$; heavy, $\$ 7.60$ to $\$ 8.05$; rough Sheep and Lambs.-Sheon $\$ 7.1$ , native, $\$ 8.50$ to $\$ 11.25$.

## Gossip.

ent in this issue, to the advertiseMutual Life Assurance Company. Thie company had an excellent year.
ment in another sale, to be held by w. s. io a Holsten vel, Ont., Feb. 18.

Sale dates claimed
Feb. 15.-Wilbur c. Prouse, Tillson
Feb. 16-Nortolk Holstein Pee sale, at Simcoe; W. A. Mason, Simcoe, Feb. 18.-J. M. Gardhouse, Weston, Unio Stock Scotch Shorthorns, at Feb. 18 -W S Sh, West Toronto. Holsteins. Feb. 18.-Estate of the late D. J. Clydesdales and Shropshires. grade stcex and implements.
Feb. 29--Kettie Bros., Burgessvilile, March 1.-Guelph Fat Stook club sale, March 1.-T. L. Dunkie, Norwich, ont

March 2.-Bruce Countr stoe ers' Association
Sale, $\begin{gathered}\text { Annual } \\ \text { Walkerton, }\end{gathered}$ Ont -Elies Puby Tavistor, Holsteins.
March 10.-W. J. Isane R Narch 10.-W. J. Isaae, R. R. 1, Balt
more, Ont.; pure-bred stock.
March 14-at Aylmer, H. C. Mann, Seceders' Sale, Breeders' Club Cond District Holstein Breeders' Club Consignment Sale, at
Woodstok; W. F. Thomson, Woodstock,
Secretary;
March 29.-Wester ${ }_{\text {A }}$ Ontario ConsignManager.

## ng Markets

gs, prime, $\$ 8$ to $\$ 8.75$; yearling n to good, $\$ 7$ to $\$ 7.75$.

and VHeifers.--Prime weighty heif
$.75^{\circ}$ to $\$ 7$; best handy 3.75 to $\$ 7$; best handy butche
$\$ 6.75$ to $\$ 7.25$; common to $\$ 6.75$ to $\$ 7.25$; common to goos,
$\$ 6.50$; best heavy fat cows, $\$ 6$ 5 ; good butchering cows, $\$ 5.25$ to
medium to fair medium to fair, $\$ 4.75$ to $\$ 5$
$\$ 3.75$ to $\$ 4.25$; canners, $\$ 3$ -Best heavy, $\$ 6.50$ to $\$ 6.75$; atchering, $\$ 6$ to $\$ 6.25$. - \$6.50; common to good, $\$ 5.50$ good, $\$ 4.50$ to $\$ 6$ to $\$ 6.25$; comto \$6.50; common ; goud year and Springers.- $G$, $\$ 4$ to $\$ 4.75$. $\$ 70$; medium to $\$ 85$; in carloads, ts, $\$ 45$ to $\$ 55$; in cair, in small and Lambs.-Market on lambs k. was pretty uniform. Mambs
d up to $\$ 11.35$; Tuesday's steady, and Wednesday, Thars up to 911.50 . lew choice loade down, and top for yearling Sheep were a quarter lower was regained, sheep quotations $\$ 8$ to $\$ 8.25$; mixems: Cholce nd ewes, $\$ 7.50$ to $\$ 7.75$, with a
5. Receipts last weik 8,500 head, being against 17,845 the week previous, and 30,100
the same week a year ago.

## Chicago.

eves, $\$ 6.40$ to $\$ 9.60$; cows
$\$ 3.20$ to $\$ 8.25$; calves, $\$ 8$ Light $\$ 7.50$ to $\$ 8$; mixed, $\$ 7.60$ 0; pigs, $\$ 6$ to $\$ 7.15$. Lambs,-Sheep, native, $\$ 7.60$
bs, native, $\$ 8.50$ to $\$ 11.25$.

## Gossip

issue, page 234 , of the Assurance Company. this directed to the advertise o held by W. S. Shearer
dates claimed
-Wilbur C. Prouse, Tillson-
Norfolk $\quad \begin{gathered}\text { Holstein } \\ \text { Breeders }\end{gathered}$
coe; W. A. Mason, Simcoo
M. Gardhouse, Weston, Yards, West Toronto. S. Shearer, Listowel, Ont. $\begin{array}{lll}\text {-Estate of the late D. J } \\ \text { Woodville, } & \text { Ont.; } & \text { Shorthornt }\end{array}$ Shropshires.

## and implement

## eine Burgessville

lph Fat Stook Club sale,
. Dunkia, Norwich, Ont.

| County |
| :--- |
| Annual $\begin{array}{l}\text { Stock Breed } \\ \text { Consignmen }\end{array}$ | Ruby, N. C. Mackay, J. Iseaa, R. R. 1, BaltiC Man Breeders' Sale, ord District Holstein W. Thomson, Woodstock,

 -James Banning, williams-

GMEHUARY 10, 1916


## 5

Ask What You Will
Aak what you will, the wise world says, Ask freely what you will of me:
Whe grace of knowled ge, fangth of days, A lease of power and manestery, The praises of an honored name The seats of splendor and of fame.
Ask what you will; but you must share The struggles of my men of to
And on my broad arenas dare The contest and the ceaseless moil As thousands manfully have done

Ask what you will; but you must climb To gain those fastnesses of Time And long the siege ere you shail win
At Ask wat you will, brave knight-at-arm Lo ! i have untold wealth to gives
But every gift that fures and charmas. Seeks omly of the life you live, Wherever led, however spent,

Plucky Women In Western North.
By Aubrey Fullerton
tlers into the new Western North, for the season of new Western North, for way. It began, in fact, a month or two
before the year came in. By the first week of December, a surprisingly large number of prospective Peace River and Whole families, had completed their arrangements for moving, and were actually on the road. The fact that a direct railway service is now at their disposal $t_{0} 300$ miles morth of Edmonton, has, of tion very much simpler than it used to be, and despite the war and everything
else, the people are taking advantage A feature of this, as of all immigra vident pluck of is the number and ver northward and westward bound. It is perhaps the most significant feature. For if the men who are going north to make
new homes for themselves are courageous and daring, what shall we say courageous wives and daughters? This year will
phat say of their
phat prove, as every preceding year has
proved, that the not only dare much and endure much, but with the men accomplish the much, share, and more, in the building of the country. Meanwhile their moving in is
of very
real interest. $\begin{aligned} & \text { Sometimes it }\end{aligned}$ bappens real interest. Sometimes it happens that harder experiences are found
on the way north than in the actur work that comes afterwards, the actual first to last, moving-time in the frontier A wom is a domestic drama. of a party moving into the formed one District, a year or two the Peace River mettle on the first day out. She knew lomething about pioneer conditions, but over-estimated her own powers of en-
durance. When the party started trail, north of the the party started on the
tast railway line, there was a shortage of accommo on walking this plucky woman insisted on walking. She set out bravely, an
did actually walk the first thirty following the teams at close miles Then she capitulated, and close range friends to make other arrangements
Neverthelo Nevertheless, she proved herself to be the oountry, woman who makes good in a the women's brave feats of endurance in the farming districts of the Western
North there are numberless instances.
$\begin{array}{ll}\text { try oflWestern Alberta fell sick with pneu- who } & \text { vations of the early mining days, but dead of a deadly winter. With her traf }\end{array}$ monia. His wife took care of him all ing prospectors. played the part of min- of dogs, she made an average of twenty. through a long winter, with not ariother to such good purpose that they made ive miles a day, and for the greater : 8 oul in reach, and meanwhile kept' the fortunes, and others proved their fitness onty by her hands to the barr of the
larder supplied with game thate she shot, with her own riffe. It was a desperate- called for north by various exploits that dog-sleigh. For on some days it waly hard winter, but the plucky woman will. won out.
Still farther up the women have gone. One of these women was the whife of a There was a time when the North was bank fell upon bad days Nome. The Tooked upon as wholly a man's country. and ruin seemed imminent, when, fallure Th was so hard to get there; and the who ram it was helpless. Aut his wit conditions of living were so severe, that gaved ft, She came to the rescue with
for many years no white woman ven lor many years no white woman ven- a elean-up of gold nuggets from her own
tured into the new frontier regions, or even wished she might. By and bye, holdings, which she brought over the however, a few brave women went into trail in midwinter, by dog-team. Three
the forbidden land, took their mared milee she travelled thus, alone, the forbidden land, took their part in and reach:d Nome with her golden frelght example for others like them; and now just in time to avert the othreatened the North is almost a woman's country disaster. In Alaska, for instance, there is an nushed fourteen hundred a gold hunter,
honor forty mill of women whe honor roil of women who not merely from Rampart to Whitshorse, in the shared with men the difficulties and pri- Yukon. She, too, went alone, in the


A Woman Traveller in the North.


Where a Grande Prairie Woman Keeps House.

$$
\begin{aligned}
& \text { in firty- or sixty-below weather, } \\
& \text { Just like a man this woman musher } \\
& \text { rode and tramped, sometimes breaking }
\end{aligned}
$$

$$
\begin{aligned}
& \text { way for the doged, sometimes brealking } \\
& \text { then the zero-fog }
\end{aligned}
$$

$$
\begin{aligned}
& \text { way for the dogs when the zero-log wain a } \\
& \text { too dense for them to see. Just like } \\
& \text { a man, too, when }
\end{aligned}
$$

too dan, too for them to see. Just like then out of reach of the

$$
\begin{aligned}
& \text { roadhouses, she made on of reach of the } \\
& \text { side the the trail. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { side the trail, with a hole in night be } \\
& \text { for her bed, a fow fir branchen fon }
\end{aligned}
$$

$$
\begin{aligned}
& \text { for her bed, a fer fr branches for } \\
& \text { mattress, and her Afctic dogrobes for }
\end{aligned}
$$

$$
\begin{aligned}
& \text { mattress, and her Arctic dog-robes for for } \\
& \text { bedspreads. At dawn she was up and } \\
& \text { away amoin }
\end{aligned}
$$

$$
\begin{aligned}
& \text { avespreads. At dawn she was up and } \\
& \text { away again. Not many women could } \\
& \text { have done it, but this woman didise }
\end{aligned}
$$

$$
\begin{aligned}
& \text { have done it, but this woman did it } \\
& \text { and suffered nothing more serlour }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and suffered nothing more serlour thaf } \\
& \text { the loss of a fow pounds weight in tep }
\end{aligned}
$$

$$
\begin{aligned}
& \text { The loss of a fow pounds weight in hem } \\
& \text { two months on the winter trall. }
\end{aligned}
$$ Strange ho the winter trall. fall to the hot of Norther sometime newly-wedded couple at whitctoriorie whithed But they were too late their home-to-be catch the last steamer tup the Yuk hen and for a month they waited atwhite set out for the first snow came ther It wat for home by the overland routs. and grub-box, and a sled Mig enough for

two, and the bridal wo, and the bridal tour ahead of them a the winter. Yukon trall promised to be a hard one. But they had a -good
time. The weather was good, and the was fine, the going
along the along that particular trail made conveni: ent stopping-places. When they reached
Dawson they declared thet Dawson they declared that they head not
had a dull moment or an uncomfort experience, and that dog-sled wedable trips in the North were good.

## The Dollar Chain

Farmer's maintained by readers of "The Farmer's Advocate and Home Magezine,' orts; (2) Rod Crose Supplien; (4) Serbian Relief.
Contributions from Jan, 28 to Fob. is
Jas. R. Bain, Loring K, Sadler, Lambeth, Ont., $\$ 1.00 ;$ T, I. Ingersoll, Ont. $\$ 1.00$. $\$ 1.00$; \#it. MoNT. ngersoll, Ont., $\$ 1.00 ;$ M. G., St, Mary' \$1.00; W. J. Dolsen, Chathain, Ont. $\$ 3,50 ;$ R. S., St. Joseph, Ont., $\$ 2.00$ agle Lake Preebyterian Church, stower Bay, Ont., 85.00 ; Mre. E. Lear, R. 1 Amount previoualy
edged ............ ..................... $\$ 2,003.80$
Total to Feb. 4th................. $82,028.8 \mathrm{~b}$
Two pairs of socks were very kindly
sent by Mrs. H. Murray, Chatham, Ont.;
and forwarded to Hed Cross head-
In regard to socks, may we aak, by request of the Red Cross, that thone
who are knitting will finish the toes, if
cossible, according possible, according to the directions given in our issue for July 15th. Thene mate a nice, smooth toe, a great necoed
sity, since army boots cannot be fitted. At present, a number of women at the Aed cross are number of women at the
Red spend all of their time changing toes.
A note received
A note received from a helper in Grey
Co., says: "I have tried making toes Co., says: "I have tried making toes
according to directions, and like it much better than the old way." like it much Kindly address contributions for the Dollar Chain" to "The Farmer's Advo-
cate and Home Magazine," London, Ont

## Hope's Quiet Hour

## A Rose-Garden in the

 Desert.The desort shanl rejoice, and blossom as the rose, It shall blosom abun-
idently, and reoice oven with joy and
isinging and or in the wilderness hall singling, and ...orere in the wiliterness shall
saters break out, and streams in the waters break out, and strea One of the pleasant surprises which
came to me at Caristmas wres lovely
Hittle tooks, cail.d ir In the Desert of Wiit-
 helped." Perhays it was from you have my "Advocate" Iriends. In any case
my thanks go out for the book, which my thanks go out for the book, which
will carry its tragrant message to many ot my gitk and sorrowful noightors.
have aliready told the story to several have already told the story to eseral
"shut-ine." and lent the book to another. The story deseribes a caravan camels carrying various kinds of merloaded his cemel with a heavy load salt, which he hoped to carry through the Golden Gate of the City of his Desire.
But the camel became lame and fell under But the camel became lame and fell under
Its load. Shapur threw off sack after eack of the salt, but even when the en
tire toad was removed the camel could bot rise. The caravan went on its way and the disconsolate merchant cared ten
derly through long days and nights for derly through long days and nights for
his stricken beast, until it was able to take a tew limping steps. Then he dios
covered, to his dismay, that a tiny covered, to his dismay, that a tiny
stream from the prring where he had enstream from the spring where he had en-
camped had trickled through the sacks and dissolved the salt. Only one sackful was left.
"Now Allaah has indeed forgotten mie 1" ho cried. Even if the camel were able
to travel, it was useless to set out for the City when he had no merchandise to dispose of. In unter doespair he sat be
side the fountain until hew wisturbed side the lountain until he was gisturbed
by a beo which buzzed about him. ${ }^{\text {by }}$ a a hee which buzzed about him. honey,", he decicied, so he followed the
boes for many miles untili he reached the rose gardens of Omar
is days in the wondroulchemist, spent his diays in the wondrous work of trane
muting the common things of earth into eomething precious. $A$ hermit in the
desert. ha
was meoretly
blessing dosert. ha was secretly blessing the
world.
Shapur was filled with new hope
shapur was filled with new hope as he
thought how easily the tamous allohemist could change his ittle store of salt into gold. But Omar said: "Nay, Shapur.
ench man must be his own alchemist"; but he ofored to teach him how to fo find
the treasures hidden tin the treasurea ho hadgach in common things.
So shapur picked rose petalas in the So Shapur picked rose petals in the
Garden of Omar. packing thousands and Garden of Omar. packing thousands and
thousande of them into great stone jars. NIght atter night he worked through
long months, until he grew discouraged long months, until he grew discouraged
by the deadly monotony of the task and by the deadly monotony of the
the absence of visible resulte.
${ }_{\text {htm }}$ At with tiny vial of atto
 hundrods of thousands of roess, and so costly that only princes could afford to
purchaee it.
He was told that wherever ho went the Aragrance would open a way
into the hearts of men, and he must into the hearts of men, and he mast
whisper to those bowed down in a Desert whisper to those bowed down in a Desert
of Waiting this oheorful message: of Waiting this oheerful message:
'Patience !
Hero if thou witt, in theso arid sands, thou mayest find thy garden of Omar, and even trom the daily tasks
that prick thee sorest, distil some pro cious attar to sweeten all life."
The secret ot Omar's alchemy is clared to be this: ${ }^{\text {and }}$ "To gather some thing from every ono tho oupaserst on on
the highway, and $\&$ fromi every experienco the highway and from every experience
fate sende thee, as Omar gathererd from the heart of ever. rose, nd out, of the
wide knowledge tuis caincd of hurnan weaknesses and $h$

\section*{| thine ow |
| :--- |
| Sympathy |}

reality fo even more beauif
of life one great adventu
desert of a monotonous existe
terrible wilderness of physical
he precious gift of sympathy.
eye. The rose-garden in the dosert springs from His wonder-worksing power;
and it we keep our and if we keep our eyes on Him, taking
from His hand the commonplace duty or the heavy sorrow, the fragrance will steal siliently into other Lives, making also will eand patient. Then they may learn the secret which He only can
teach.

My gardon must be beautiful For when the siadows play In lin, thining shapes along the wall, Peribanie my Lord mingt come to. see
The Elace where rcses bloom for me."
$\qquad$
Iseathe miracte of a rusegarden in tho desert possicte aur lives seem to us ordinary people. Can God distil from orr lives Irarrance and beauty? at the parth and you will see something is dull and uyly-iust dirt. The eart it springs go den grain to feed God' children; roses, violets, liiies, and count less other flowers draw from the common dirt beauty and fragranoe, giving ploasure to God and man. He Who
clothes the lily in beautilul rojes, takee plasure in its beauty. How much more certain is it that the Kow greatly do-
sires to see spiritual tening sires to eee spiritual beauty in His own
sons and daughters. If a rose or violet an distil beauty and swoetness
out of ugly Ife3 cafa:le? Does God give those, who no power to make an the flowers no power to make commonplace sur
roundings beautitul? It is folly to be moan one's circumstances, and it to cowardily to put up with ovils which wo can conquer it we try, with God as our
Teacher and Helper.
I remember once seeing, some pictures of forlorn "back-
yards," littered with $u$ unsightly rubbish deoaying, disease - breoding garbage, thin
cans, 'etc. Then pictures were shown of cans, 'tct. Then pictures were shown of
the same plots of ground, transformed into orderly and beautitulul gardenss. God gives us the matrials and we can use
them, or waste them, as we choose. By chem, or waste them, as we choose. By
irrigation and fertilization a rosegarden may, be rescued from a dosert waste.
Even this terriblo war has been wren as raw material by noble souls, and out of the hideous evil we see springing fair and fragrant graces-courage, self- sacri-
fice, fortitude, faith, hope, and loving fice,
service
${ }^{1}$ our is our business to find pleasure in some work wascon enjoy. Mickey O'Halloran really meant what he said
when shouted: "I like when he shoutod: "I like to sell
papers!",
His happy cheer the people who bought his papera If you find, your tot is not cast "tin a Pair ground." you can make it fair. The
taakk may be difficult, but it is well worth tabk may be diffcult, but it is well worth
whilie-worth while for yoursell and for the rest of the world.
Keep your eyees on the coming victory
and you will and you will hot hkely give up the
aght.
When a farmer has a stony field
to make use of, he is encouraged to remove the stones by the thought of the
possibilities of the land which is as yet barren. pleug the Divine He If the plough of the Divine Husband-
man is cutting deep furrowa man is cutting deep furrowis of parn or
disappointment in your life, never imagine that it is a aign of want of love. The farmer cultivates his own fie:d-ho is determined to macie it productive. you a.one, mating no fifort away the weeds of selifisiness and world liness ? Yorr soul is His valued rose-
garden - "o garden - a garden inclosed." Koep the gate open for the Master, and allow
Him to have full control. The dark-tronn mould's upturned By the shar,-pointed olow-
And I've a lesson learned.

My life is but a field," Stretched out beneath God's sky
Some narryest rich to tield. some navest rich to yield
Where grows the golden grain Where taith? Where sympathy? In a furrow cut by. pain." $\begin{aligned} & \text { DORA FARNCOMB. }\end{aligned}$

## A Kindly Thought

One of our readers has sent a dollar
 thankful for a good fre that I thought others who might not have a ${ }^{\text {a }}$, fire to
warm them." ${ }^{\text {The "Advocate" }}$ purse was quite empty-a most unusual event. Hall of this dollar has already been pent on oomforts for a poor woman
who has been ill nearly
three yoars. Many thanks

News of the Week

Among the leading topics of conversaOttawa which destroyed the Parliament buildings on the evening of Februar 3rd, causing loss of life to seven per
sons, Mr. B. B. Law, M.P. for Yarmouth, N. S.; Mr. J. B. Laplante, As-
sistant Clerk of the House; Mesdames sistant Clerk of the House; Mesdames
Blay and Morin, guests of the wife Mlay and Morin, guests of the wife of Mr. Sevegny, Speaker of the House; Ran-
dolph Fanning, of the Post Office Department; A. Desjardines, plumber, and Alphonse Desjardines, policeman. The two last named met their death, it is
said, while trying to check the fite of the great building, although the walls still stand. only the beautiful library remains intact, although dam-
aged to some extent by smoke and

At time of going to press, reports regard to the origin of the fire remain to be substantiated. Mr. Frank Glass,
M.P., of London, who was in the Reading Room when the fine started, believes it to have been accidental. Mr. Graham,
Chief of the Fire Department, on the
other hand, is firmly convinced, judging veloped, and the fact that five fise de explosions were heard, that the work was that of an incendiary. The Provithat Journal immediately on the news that three weeks before, it had stated word to the Department of .Justice at Washington that a German plot was afoot to wreck the P'arliament Buildings, plants in Canada. This is munitions vestigated, and guards are being increased at many points.
The Parliament. Buildings, the finest
Gothic pile on the continent, Gothic pile on the continent, were do-
signed by the famous English architect Sir Gilbart Scott; their corner-stone was laid in 1860, by the Prince of Wales, afterwards King Edward VII; and the first session of Parliament was held The devastation caused no check in the proceedings of the Parliament in session at Ottawa, as the House met next day
lmost "as usual," but in the fine new almost as usual, but in

The Bulgarian Premier, M. Radoslavoff has given out a statement that Bulgaria Bulgars do not consider themselves obliged to fight against anyone else hence are prepared to demobilize if the Salonika

An exciting inciden
the taking of the Britio week was by a German cruiser, the Moewe, which is still at large somewhere in the
Atlantic. The Appam was put $i_{n}$ charge of a German crew and brought to the of a German crew and brought to the
United States harbor at Norfolk, Va., as
a prize of war
Six or seven Zeppelins raided six of the English midland counties on Feb. 1st, dropping bombs which caused the

Great preparations are being made on Westh sides for a great battle on the reported Little news is Erzerum is said to be abandoned by the joins. It is stated that Roumania will Teutons are ilies in March. That the copper for munitions is much in need of fact that throughout Austria church bells are being taken down and forwardto the munitions plants.

When Alice Jones was eighteen, she b went to enter a college, she was asked her name by the dean. She replied
Miss F. "Yes," said the dean, "and how are you Yes," said the dean, '"and how are you nollunth
were heard, e buildings were in on the news aree weeks before, it had sent the that a Ger,man plot was
wreck the Farliament Buildine Hall, and certain munitions
in Canada. This is being ed, and guards
arliament Buildings, the fines
oile on the continent, were de y the famous English architec 1880, by the Prince of Wales,
Is King Edward VII; and the


EbRUARY 10, 1916
THE FARMER'S ADVUCATE.

The Ingle Nook
Correspondence
 to express my approval. Your yoaes
are so much in hine with what I have mysell been trying to gay that 1 am on
couraged to think that wo
wo


 the game time t think that oven to tho
Higher Power that
ts
trying to guide
 tand colotict in mat erre ooncenain man own has
tate, to that extent has he the power to
to that we tan seo at work th the world
and in the ives of men and women
 that will bring about a better state of
society than wwhe have known in the past society than we have known in the past,
but whather it will come in the form of
an "Impetus," as you say, through the medium of some individual, or as a
gradual orocoss of which any one genatra-
tion can only see a part, we can only tion can only see
guess, of course.
But what I \&tata But what I started out to say was
that you have certainly not made us tirred", y your observations on the war
and life in general, and dif you still have
some more of that a your system," we will be only too glad to proft by vit. It doesn't even matter so
much, though some of your ideas should bo heterodox, so long as you get us startsd

 I agree with you, J. E. M., that the
Higher Power will not intertera wwh
man's free will, and that, by going on man H ree will, and that, by going on
wrong roond we can frustrate even his
purposes for a long timo just untion we Cearn by our mistakee and rise above
hem. The saddest feature of great misCakes, too, is that the innocent mus
suffer, temporarily, because of them. wais much interested in your querring in
regard to the form in which the "imp potus" to a better - world basis may
come. It reminded me of a ohapter,
col Ideals,", in an a book that t am reading-
"The New Humanism," by Edward Howard Griggs, published by B. W. Huebsch,
50 Nagsau St. New York.
Mr. Griggs
 the fow men who march along, a little
in advance it may be, of the very front
row Portance of the individual initiative," ho
says, "is in the moral sphere. Every great moral teaching of history 'bears the name of some man : this means that the
loottier ideal comes into the world ${ }^{\text {a }}$ the
hiter higher consciousness of the one who
stands upon the advancing margin of utit. This dream of the highest man, it
it be in the line of progress, ,ecocomes a by and bye is taken up into the very
structure of social life." Again he says, "To be kept sweet and sound, the waters of life must be constantly stirred; and
this vitalizing element, this forced motion of the Good, enters into the whole ing margin, that is, through the hidghest
consciousness and the highest effort of consciousness and the highest effort of
those individuals It's fine to think that there is an an
"advancing margin," isn't it ? -and that there are always the fow who step for-
ward even out of that. These, and the
"mar ter enough history and science knows, draw
the rest of humanity after them,-what is heresy in one era (taking "heresy" in
its broad sense, of course, ) becomes the accepted thought of the next. But the
way of the few who step altogether for-
ward is
 Griggs says ayain, "Every great moral
toeneher in history has been a hereticic, has
been In advance been in advance of the traditional and
conventional standards of his time. From
daalah to Soorates, from Christ to Gior
dano Bruno, from Saint Paul to Savona
ron rola, each has sullered for the ideas he
has advocated. We have learned to do do
awey with forms of physical torture, but the rack of ridicule and contempt, and
the lash of misunderstanting the lash of misicule and conding are almost, and
as bitter for the advancing leader to enas bitter for the advancing leader to en-
dure as the earlier, cruder forms of per-
secution. The man of higheat ainis secution. The man of highest rims 18
willing to pay this price for the work
he does in the world. he does in the world; and this willing-
ness is a partial proof that his ideals You would like this margin of life."
yook on "The New Hưmanism,", J. E. M. Mook on "The New
have the opportunity you will
the question raised by "IN-

## SPIRED BACHELOR.'

objections to my answer to "Inspired
Bachelor," place for friendly discussion, and soys a are two letters with which to open the Junia,-After seeing your answer to the
Inspired Bachelor in your department on Jan .13 , I said in my heart ' "Thanks be unto God for the so-called primitive and
out - of-date preachers, for
there remnant unto this day." Now, if they believe in the Gospel of Jesus Christ, look at. the 20th verse of the 19 th chapp-
ter of Revelation. But thy doe Gol Who is a God of Love, and Who is all Powerful, allow this awful war with all
its sorrows ? Because of all the abominations of the sons of men, and also from their marching orders, such as, "Go
ye into all the world," etc. "Hold fast the form of sound words," etc. "Hold fast season, reprove, rebuke, exhort,"" etc
seastant in season, out on have many of the up-to-date preachere orders in the Word of God? I fear a great many of them have stayed homes
and gathered most of their crowds by advertising. Do they hold fast the form pete with the theater, so they entertain.
po they preach the Word? No; they must go with the crowd, so they leave am not a German, nor have I any yym-
pathy with their methods, but I think from his source of power. Hoping ave not wearied you, I remain,
ANOTHER BACHELOR.

## Dear Junia, -I have been an interested

reader of "The Farmer's Advocate" Ior nglo Nook, to which it seems natural
to turn first. I have reeelved many good recipes and helpful hints from its Pages, but this is the first time I have
ventured to join your Circle. I was quite interested in the letter
written by "A Bachelor," and especlally written by A Bachelor, and espectally
in your reply, Junia, regarding the doc-
trine of eternal punishment. I cannot help wondering what impression your re-
marks will leave on the minds of the many readers of this paper, and I cannot believe that a person, with a strong mind and character, as you have always appeared $t_{0}$ me to be, could ever ,beliiove
that the soul is annihilated at Death. Yet this doctrine is commonly taught
nowadays, and as that bringa us to that nowadays, and as that brings us to that
great question, "The Immortality of the
Soul," I would just ilko Soul," I would just like to say that
anyone at all interested, would do well to $_{\text {o read the book entitled, "After Death," }}^{\text {hy Dr. Anderson-Berry. This book, bo- }}$. ing paper cover, may be obtained for a
few cents from The Gospel Publibhing Houso, 692 Eighth Avenue, New Yorls. This work is very comprehensive an
thorough. A SUBSCRIBER'S WIFE. 1n reply to the last of these lettern, may say that niy "Tnspired Wife" wil re-read my reply to "Inspired Bachelor"
carefully, she will find that I did not
even hint at annihilation after death. She merely misunderstood-that was all.
Indeed, if she has been following my glorious future, lasting time without end,
In which we shall go on and on to ever
greater things - things that we could
neither grasp r.or urderstand if they were neither grasp ror urderstand if they wer
presented $t_{0}$ us now. because we are no

> Is no lake of "literal" fire-I do hoop understands the who reads - this columing of that wor
" literal." "literal." I contended also that any "literal" fire as a punishment is ene of "iteral" fire as a punishment is, so far
as that point is concerntd, primitive and
misleading, no matter kind, and s:ncere, and sane, ho may b on others. The word has been usad in
the Bible "Iliguratively," not "literally." They were great poets-those old ori making free use of all such figures speech.-Of course, there is a hell, and a
bitter one. for all wrong doers. They bring it upon themselves, and a good
many of them get a taste of it here in many of them get a taste of it here in
the "fire" of a tortured mind, tortured because of its own failures. But it was
never meant that there is. never meant that there is a lake of real,
literal fire, for tortured spirit-todics. The difference between the old tdea-
believed, after all, by a mere fraction of the human race-and that held by all the "advanced margin" of thinkers to-day is,
stated without varnish, this: The old stated without varnish, this : The old
idea was that God put us here, perhaps
tor fifteen years, perhaps either case a mere pin-prick of time in
the vast billions upon the vast billions upon billions of years,
time without end, of "eternity." We were put here, too, with temptations
upon all sides of us, hampered, addition, by shackles of heredity. If we
chated chanced to be born in "heathen" lanis,
if we chanced to be doubters"(n) matter if we chanced to be doubters- $\left(n_{0}\right.$ matter
how honest), if we failed to toe the mark set up by orthodoxy in any way, then at death we were compelled to go into a lake of "real" fire, like the "molten fire


DEACON SHIRT COMPANX

## For Cheeks That Are Fading

 If your did is falligy, pred Prinetss Skin Food


 HISCOTT INSTITUTE, LIMITED

FOR SALE
One only $31 /$ horsepower vertica
tank cooled Barrie wasoline en gine, on slidids, Harigh grade engine
absolutely new at reduced price. Masco Company, Limited Toronto, Canada

## "1900" Aravity Washer

 Sent free for one month's trial.Write for particulars. "1900" WASHER COMPANX ${ }^{357}$ Yonge Street ${ }^{(\text {Pactory }} 79-81$ Porthand St., Toronto, Ont
croached upon Hope's domain in stumcroached upon Hope's domain in stum-
ling into this argument, but I am uure
she will torgive mes she als a real God of Love, as those who read her writings each weok muat know. would advise those who wish to read
further on the subject to got Farrar's "Eternal Hope," and "Mercy and Judg. ment." 1 am sorry 1 do not know the
publishers, but probably any bookstore publishers, but probably
could procure the bools.

$$
\begin{aligned}
& \text { could procure the books. } \\
& \text { A modernits who chance }
\end{aligned}
$$

my modernist who chanced to drop into adds: Many readers will, of courve, quote certain texts from the Now Teptament to prove that Jesus and the Aposties taught oternal punishment lif a
lucal hell of material fire; but thits nust local heil of material Are; but this muet
never be forgotten : that, while a fow lsolated texts of
quotable against the
that a preponderan
port those ideas.
the spirit giveth
.array of textuls sup. - spirit giveth life," is a good rule to be followed by anybody who undertakes to prove an argument by a text,
Jesus Himeelf taught that heaven is a condition rather then a place: the in erence is then that hell is also not col. If the kingdom of fieaven is in oo? That is to say, heaven and hell are words descriptive of attitudes of loveth towards lfe.
stren $y^{\text {th }}$
Heaven,
Heaven, is to love in the soul. Hell is
love God, and hateth his brother, he is

you, that ye love one another."
"Where your treasure

## CALDWELL'S

## Hens Want Variety




## CALDWELL'S

SGRATCH FEED
Made from selected Wheat, Oats, Cracked Corn, Barley, Kaffir
Corn, Buckwheat, Sunflower Seed-
Corn, Buckwheat, Sunflower Seed-
NO GRIT, SHELL OR CHARCO L ANALYSIS:
Protein 10 per cent., fat 2.3 per cent., fibre 5 per cent., carbo-


The Caldwell Feed and Cereal Co., Ltd., Dundas, Ont
largest feed mills in canada


THE TRANSCONTINENTAL


## O.A.C. No. 72 Oats

measured bushel.
A very limite.
A very $y$ iimited
cents per bushel.
HENRY H.

VALENTINE party.
H. L. wishes all sorts of hints for a
Valentine Party. Why not use your own ingenuity, H. L.., in thinking out ydeas
So long as you have plenty So long as you have plenty of pink or
red hearts about among the decorations rea hearts about among the decorations
you will not be far out. $\left.\begin{array}{l}\text { You might }\end{array}\right)$ send the invitations on p:ak haarts. For entertainment, I would suggest a mak
querade, each dressed as yerade, each dressed as a characteri.
For the luncheon, huve dienty Bandwiches, pickles, cake with pink icing
decorated hearts, ice cream decorated hearts, ice cream, bonbon3, and
coffee. It is handier to pass it around on trays than to set tables formally.
to make cream whip Dear Junia, -I have had a good teal of
trouble in getting cream to trouble in getting cream to whip. What
in the reason, and what should one do to make it whip quickly? Can I whip
cream in summer ?
MRS C. H. cream in summer ? MRS C. H.
To whip well, cream should be at least
Tit ${ }_{24}^{\text {To whip }}$ moll, cream should be at least, and should be teast Put ours old, and should be very cold.
Put it in a regular croam whipper turn the beater VERY QUICKLY. it you have not a cream whipper, put it in
a deep, round-bottomed bowl, and uso
Dowe a doep, round-bottomed bowl, and use a
Dover egg-beater, or one that will as quickly. Some people add the white
of a fresh of a
Creash egg, others a a little viscogen. Cream may be whipped in summer
Kept cold enough, but it is Kopt cold enough, but it is more difficult,
To make the viscogen, dissolve ot sugar in 10 ounces of of water. ounces
6 Add
ounces cold water to 2 ounces quickUme and let it gradually slake, then
etrain through cheesecloth.
Combine tho
 then pour off the clear liquid and keep in small botles, stoppered titht. Uso
ono fourth teaspoon to three-fourths. cup one-tourth teaspp,
of chilled creap

Discussion on Subjects Set in January 13th Issue.
Dear Ingle Nok. Folk, -Seing the sub-
Sect for discussion, I Idecided to speak
about "one of the thes. about "One of the things which have had
the greateest infuence on my life." $\begin{array}{cccc}\text { As } & 1 & \text { sit here } \\ \text { akin } & \text { It think that something } \\ \text { myself } \\ \text { is }\end{array}$ about the house outside. The wind is is
whist whisting and howling as it it were in
some wild mood that could not be held in eheck.
Nature seems to ine to have as great
an infuence on me ns Porhaps not thet me as ane anything else.
influencing, but it it iself does the
 and has an orportunity to untangle the
trouble into which we seem always atapPing. "hen, feeling what iways commonly
called "blue,", nothing seems to hell


 Woods the "Silences of on God.
Probably, and I believe han such a quiet ing infeve one reason it
that my aronce on me is that my profesing infuence on me is
rather noisy peoplie for me amon

I witah for.
Some of you, I suppose, have read one
of Robert Service's poems
 Oalling You." I wonder it they have
over called you? They call me very loudly sonuetimes, ustually when a home Ing spell coines over me. Ater obey
ting the call of the wild, I chan usuly come back to civiilization and work andy
be content to live amony


Learn Dress Making BY MAIL


Strawberries, seed potatoes, etc. - 5
 and Geen Mountain prapes, asparagus, Cobble
a. L. McCoNNELI


Mruew scanes
 Oshawa.


## HERLOCK-MANHING

## 20TH CENTURY PIANO

anada's Biggest
Piano Value
 , the betst strings sater sare sioc by I US SEND Write postal U PROOFS
 : proof of yevery claim we malee. Icck-Manting Piano Co. rn Dress Making BY MAIL
dex


n Dress Cutting Co. Berlin, Ontario
1 Challende Waterrion aro ainorr ils. iso wiv



 NEW COALE S HLI\&MS IAMS PIANOHisim
Kmmoxwrenitaio

fFBRUARY 10, 1916
THE FARMER'S ADVOCATE.
229
the bachelor táx question The Ingle Nook is becoming popular
with the Bachelors. We'll soon have to begtr labelling them by number. Please read the following it. This Bachelor isn't so tragle as he
his eye? Yet he is serious, too, some
Dimes.
Doar Junia, -Can you find a wee small corner in your Noot for a forsaken old bachelor? Just a small one, for I an
only, a little fellow. Perhaps that Only, a luttle fellow. Perraps that
why $I$ am still a bachelor. Why aiced in the "Advocate" for the
I
13th inst. that you would like some discussion on a few subjects which you hav wisely chosen, so I am going to give
you my opinion un, "Should Bachelors be Especially Taxed?
just as shourge they? I think there lors paying taxes as there of the bache men. And, also, they are being taxied
to educate other people's childre think it is a shame the way poople are is hard enough not to be able to find a wife, but it is ontrageous to thin' that
we are going to be punished for our mistortunes. The next thing we know, some lady whose hopes are fast disappearing,
and who wants to get tied with that tightest of tight knots, but can't, will certain age be hastened on to the happy hunting ground or else get married. it there were more rike trictions poper thing who are married, or are going to be
married, for the the amount of men who are marred enormous
it that, it they were bachelors, the world would
be ever so much better. For one reabo ever so much better. For one rea-
son, there would not te so many of their kind in the coming generations. the drunk ord, the thifobeater, or the deserter, etc., and ask yourself, if the murderer,
types of men we want the are the tions to be composed of 9 Are there not a lot of that class among the
bachelors, and the old maids bachelors, and the old maids, too ? 'Tis
true, they tax were levied on the bachelors, would these not be the first- to try to escape
it by marrying ? Some will perhaps say that the tax is not meant, to force men to marry. Well, why tax the
bachelors
eny
more than the married Then, again, is not the world being populated fast enough? I rather think
it is being populated to It is being populated too fast. At the
rate it is increasing, in tew tions there will not be be any more room
lett. 1 think that it is one mone causes at the hattom is of this war.
Then, why try to main Then, why try to increase oft fastor by
placing a tax on the unmarried thacing a tax on the unmarried to try
to force them to marry? It would be tar better if the law was made so as to the best
tnot in mecessarily
(nhe richesty would marry. I necessarity the richest)
would be done, but tow how it irrat subgested tone tot probably the one who think of of plan.
Hoping t to the bachelors could Hoping, to read the opinion of some-
one else with respect for all and malice to none.

A BUDGET of ANSWERS. Dear Junia and ' Ingle Nook Friends,--
Junia speake of writing in the long win-
ter aven ler evenings. I smiled. When one is sitad to retire early, in order
It have whe is the evenmg? I have a fellow- - eeling for "I Lallie."
As a constant companion, that tired teeling is not pleasant.
uch ine doctor says rest is nooded as It is or more than madicine-what then ? hey are will ny we shas fault either, tor Convy niences we can afford. We need or the day stenth, or endurane enough and a reserve, with teresting. The common round, the daily task, Rcom to deny ourselves"
 illing, glad to do that, but we also
want some time free, without having steal it, to do the things we want to After her first two days at dchool, me


## Important Auction Sale of Holstein-Friesian Cattle <br> 20 Females and 3 Bulls

Friday, February 18th, 1916
AT LISTOWEL, ONTARIO
This is a first-rate opportunity in this northern part of the Tovince to buy a high-class female at your own price
This herd consists of high-testing, deep-milking show cat tle. There will be offered descendants of the blood of King Segis, Homestead Sir Abbekerk 2nd, Johanna Rue 4th's Lad ictor Butter Baron.
Sale will be held under cover if necessary
TERMS: Eight months' credit, no interest; 5\% per annum off for cash.
Trains will be met at the station, Listowel, on day of sale. Send for catalogue.
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Golden Glow; Wisconsin No. 7
Bailey White Cap Yellow Dent Longfellow.
We sell none but first class seed Owing to the scarcity of good seed this order without delay.
Walker Sons, Walkerville, Ont
London Engine-Supplies Co., Limited. Our L. E.S. Water Works System will
Qive you the comort of Hieh Preaure
Wits Water System for your home or about the
fartion Refer to the Christmas Number for
details.

Louden Barn Equipments
Our new catalogue describes every
lind of cavaioe for describes every
lind labor saving on farms. Write to:
and lom
Louden Machinery Company
Guelph, Ont
Please mention "The Farmer's Advocate

will go
those two tight wires as soon as an extra strain is put on this wrong kind of fence.



If you are Run down, Weak and Depressed -then you need

## Sanatogen THE Fooo- ToNIC

And when you have taken Sanatogen regularly, for just few weeks-twice or three times a day-you will be astonished at the improvement in your health, strength, and nerve-power.
You will say-with Mr. Arnold Bennett, the distinguished playwright and novelist-" the tonic effect of Sanatogen on me is simply wonderful / First, that "nerviness" will disappear. You will really be stronger and more vigorous. You will eat with appetite, digest your food, and sleep soundly. There will be more colour in your cheeks, more light in your eyes, more "spring" in your walk. You will both look better and feel better.
Instead of being irritable, gloomy, and apprehensive - you will be good-tempered, cheerful and calm. Instead of feeling tired and list less, you will tackle the day's work with
joyment.
And Sanatogen is absolutely safe and harmless. Your doctor will recommend it-and you probably Begin to take it to-day!

## Send for a Free Booklet.

 There is no time like the present forgood resolution. Why not here and now Obey that impulse! Buy a tin of Sanatogen et your Drugbist's - prices from 81.00 -and
take it regularly. (It is entively British take it regularly. (It is entirely British
made.) And write to the address below-
mentioning this paper-for a Free Booklet which fully describes the nature and uses
of Sanale

The Sanatogen Company P.0. Box 2622, Montrea

Look Out For

An Advertisement to Wives for Sale Improtud Percheron Stallion .F. PlAyTER,
littlo daughter said she was not
any more, it took too much time

 countst tor the liack of the art of con-
veration in the country-re your exxelvat talk of Dec. 23 .
It it hard to choose othe "groateat"
trom the many innuenees in my life, but trum the many infuences in my lite, but
am sure
it was
my father:
love ond
 sears- was watchng over me
MIost ast asurelly, bachelors
should not
not Most aseureally, bactelors should not
bo taxeed because they are hachelors, or
 married tor any other reason than to bo
Moved, hoonord, and cheribhedry? "Ioved, honored, and charibodi"
Dont
you think that the our children were taught the beauty and sacrechoses
 teased about their "girl" or their "fe
low," that there would be better, hap pier homes and families?
I think that requiring medical certif cates from those wishing to marry, would be a long stride in the right direction,
and might result in fewer problems of and might result in fewer problems o
the advisability of letting undesirables die. When wo read of Mrs. Taylor baby, we picture a very dififerent speci men. I agree with her, and also with
"A Bachelor." Someone has called them
"o "precious trials," but, oh 1 how pre ${ }^{\text {ap ? }}$ ?
Bachelor, are you glving your pa that you are on the Lord's side Nowing not that include all the very best things we wish for our babies, and if they de velop as we wish, we forget all the
trials and remember only the precious Jish you we do enjoy your talks, and a Happy New Year Essex Co., Ont. MOTHER OF FOUR. Several letters are held over for an other time.

Subjects for Discussion 1. What person (historical or modern 2. Should children ever be paid mone form?
-3. why want to legve the farmThis is a subject for discontented young Yolk, and older ones, too, who are not It may do soad the theire are such. if there are wrong conditions anywhere bringing them to the light may suggest a remedy. If there is a sore spot, we do not cure it by shutting our eyes and and cleansing it.
Four he letter written by Mother of which, I i hope, will be dealt with one many housekeepers who have with by escape from over-work, and have learned time for rest, reading, and recreation Let us word the subject, then, "How I
made my escape from over-wor," or made my escape from over-work," or
something to that effect. There is a
real real need that this question be thoroughly talked over by those who hav
found a way out; there are so very hat found a way out; there are so very many
who are just groping for one-so tired.
so so discouraged, so greatly in need or

## First Aid for Cuts.

 In reply to a letter from Mrs. S. Basking for some information on what do first in the case of a member of a
faunily cutting himself or herself bady,
before a doctor can be reached Say:
The first consteerration, of course, is to the world.
 With an "Empire" you can keep morecows-milk them reeularly a and uniformly -b e independent of
hired menler and still be free of the old-time drudgery
of milking after a hard day's work. hired men-and still be free of the old-time drudgery
of milining after a hard day's work.
The action of the "Emplies" scientifically imitates
 milik. It cannot harm the cows, and
mikik from dirt, eerms and stable odors. We have an interesting, Booklet illustrating
and describing the "Empre" mechanicial milker
which wo will send you on reauce Write The Empire Cream Separator $\mathrm{C}_{0}$. of Canada, Limited
MONTREAL, TORONTO, WINNIPEG, prevent excessive bleed.n. A moderate
amount of blceding is an excellent thing,
and permits washins out of the wound.
ihn
$\qquad$ Wirty, and the condition of was clean or
cluthing through which or the instrument

Fresh from the Gardens of the finest Tea-producing country in


Sealed Packets Only.
Try it-it's delicious. BLACK GREEN or MIXED.

## Independent of Hired Men

That is the happy position of
the Dairy Farmer who has an EMPIRE mechanical milker

$$
\begin{aligned}
& \text { In half an hour one man can milk from } 10 \text { to } 15 \text { cows with a small } \\
& \text { "Empire" outfit consisting of one double unit. One man can operal }
\end{aligned}
$$ Empire ouffit consisting of one double unit, One man can operate

 The third consideration waking the cut
ture of the cut itself, $i$. e. ne naWound, or a narrow, puncture. $\begin{aligned} & \text { Pree. oven } \\ & \text { a doctor is availatile within a reased }\end{aligned}$
a

## Counns <br> Perfection <br> Cocon

It's what's inside the cup that counts.


 Architectural Drawing-mpacachle, Ont
 Sweet Clover Seed Wanted
 NONE-SUCH SEED CORN Our Guarantee
If not atisisfed in ten dyys, return corn at our
minded.
mind money will be refunded.
Bags turDon't telay. Write at once for our price list
giving tree deliverr offer.

Wanted---Cream


TORONTO CREAMERY CO., Limited
Brant Creamery
Guarantees to you a high-priced market
for cream every day of the year.
Write for our book.
Wream every day of the
FA. Bank of Nora Scotia
FARMERS


Manager, 129 Spadina Road, Toronto
 ing my aunt. Poor, pretty, firtations
Aunt Fav l", $\underset{\text { I now gatered dignty. My slmplo }}{\text { delight at an unexpected . }}$ relative (in law) In a toreneicting with "Really Sir Alec, Inam tis.
 ${ }^{\text {in }}$. Because

 $\stackrel{\text { procand you inoult me, what do you }}{ }$






 ourails. "I
jurad
yout
18
50 It happens to be bour boat."
 tu. unot,", was the terse comment of my
unole intlaws. Alo bit his Ilp, and his eves wero
growing dangerous.
I had
heen "And hess engaged or twitee.




 "Winh to talk to my wit", said he he
and neterer has hot on board this boat


 | extraordinary obedienece of the owad tho |
| :--- |
| the magretic infuence of tris to |


 as ivive meshed Meritin in the thatiny
 Even it Tibo-but I Iared not think ot
Tibe Horatiua holung his bridge alone, was
nothing compreaed to Could help me now
that? After whu expect mo to balieve
warde warcen-when I trustect youp yound at Leou"with good routed me," said It, collay,

 of umeriteuxa abden in otring this storm "I dare say itw woun my haed."

 got out of my Then, when him aad that you would Whay, you nasured mo
were not with him tou said you
not
 Neether had we," said 1 , "That wnas
 to tell you where yon could find you up you would onder it was beanuse I thonght


 you and sour stupid suspicions make
trouble between a very kood follow
and -and the ween a very good fellow and
TThicte girl hes in lowe with ?
 "e. Oou aro very Aleh sind



Every milk can will be sweet ănd sanitary if you always use

## Old Dutch



## Planet Jr. Cultivators

biggest savers for farm and garden
Planet Jr tools are far more economical-they do 3 and meagre results? get bigger, better crops, and outlast several ordinary implements. Fully Mo ${ }^{3}$ suaranted. You are actually losing
(i)
on m .

$\qquad$


## The Complete Line

 Harab Davies Grow Bigger Cropsvery high cost of same as compared with other years, we are offering again this year a mospared with other years, we are
Fertilizers at very Fertilizers at very reasonable prices. We can supply you with brands containing up to $3 \%$ Potash
Write for our 1916 booklet ly, free of charge, and will have our will mail it to you promptcall and give you further particulars and agent in your locality time to figure out your requirements for this coming season.
Write us to-day

The Ontario Fertilizers Limited West Toronto, Ontario

FOUNDED 1866
february 10, 1916
THE FARMER'S ADVOCATE.
ry milk can will weet ănd sanitary ou always use

## d Dutch



Cultivators
r farm and garden fo-date implements and meagre results?
mical they do 3 to 6 times the work,
teeveral ordinary implements. t several ordinary implements. work, $\begin{aligned} & \text { Fhly } \\ & \text { You are actually losing money when- }\end{aligned}$ You are actually losing
ltivate without them.

 ol. Can be equipped with spriny trip stand
sis sweep, hoo steels, and furrwing shoves. Also spring iff, new thisis yead.
anet $J T H$ Horse Hoo
Hoo and Cultivator is stronger



 Allen \& Co Box ${ }_{1} 10$ F Philadelphia
lete Line
abII
Pes ILIZERS
er Crops
1 fertilizer materials and the co with other years, we are
mplete line of Harab-Davies Ve will mail it to you prompt-
ur local agent to ars and arent in your locality
ary
ants for thics, Mow is the
ada by
lizers Limited , Ontario

## What you need

 for a Sore Throat is WARMTHHERMOGENE-by generating a soothing, comforting warmth-quickly dispels all the soreness and


Thomoperen Curution Wadidign of
A strip of this light, dry, fleecy wadding applied to the throat (as in illustration) never fails to bring instant relief. Easily kept in place by a handkerchief or strip of flannel.

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Removes all pain caused by damp and cold-Pneumonia, Pleurisy. Bronchitis, Rheumatism, Quinsy, Chest Colds,
Lumbago; also Sprains, Backache, Neuralgia, etc. Sold Lumbago; also Sprains, Backache, Neuralgia, etc. Sold
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To introduce THERMOGENE we will mail anywhere in Canada
a trial package a trial package. Write to-day to the. Thermogene Bureau, Depp.
$M, 10$ McCaul St., Toronto, enclosing Ioc. for packing and mail${ }^{2 n g .} \div$ State your name and address clearly

## te PAGE

Jaw has all the cprovements

that has become | ith farm-owners- |
| :--- |
| ly $\$ 19$, delivered | 1 Old Ontario. of heavy angle

otted and rigid-
Aat sed tat steel bars.
foot-4-inch
otel

\author{

| steel-and |
| :---: |
| Tust-proof, |

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Saw Blades Supplied at These Low Prices
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「ANCOUVER १ P.M.
1.20 P.M. nent Observation C -class Coaches.
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than 50 centa. BRAHMAS, Black Spanish, Partridge Rocke:
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 CHOICE Toulouse ganders. Also Single-com $\frac{\text { strain. A. Stevens, R.R. } 2 \text {, Lambeth, Ont. }}{\text { Cinks }}$

 Satisfaction guaranteed Eges ahiped in eeason
Catalote free
Ciansvilie, Ont. J. W, Clark, Cedar Row Farm W ${ }^{\text {HiTE }}$ ners. Wyandottes, (Martin strain) Pripe McTavighi, Chealev, Ont.


## $\$$




TiJこ $\begin{gathered}\text { to Stockmen and Poultrymen } \\ \text { our } \\ \text { on-page }\end{gathered}$ house which will on feceaing, how to to construct
dimensions and measuremente of every piecece
 how to cure roup fr four dany co conedifies. Tillinin-
formation about Royal Purple Stock and Poultry
Tood Foods and Remedies.
THE W. A. JENKINS MFG. COMPANY

[^1]On Thursday, February Third, the Forty-Sixth Annual Meeting of the Mutual Life Assurance Company of Canada took place at its Head Office, Waterioo, Ontario. Notwithstanding the disturbed conditions which prevailed throughout the Dominion, the Directors were able to report very gratifying results from the year's operations. Following is a SUMMARY STATEMENT

| Income | \$ 4,972,782 | Gain over 1915 | 433,709 |
| :---: | :---: | :---: | :---: |
| Paid to Policyholders | 2,035,814 | Gain over 1915 | 444,368 |
| Assets | 26,894,524 | Gain over 1915 | 2,252,210 |
| Sutplus | 4,258,737 | Gain over 1915 | 440,258 |
| Assurance in Force | 101,092,030 | Gain over 1915 | 6,614,670 |

The ratio of expense to total income has fallen, while the rate of interest earned has risen, both results being favorable to the payment of substantial profits.

SURPLUS EARNINGS
The Company's well-established reputation as a dividend payer was further enhanced by the notable record of

SURPLUS EARNED DURING THE YEAR, $\$ 1,158,210.20$ an increase of ten per cent. over the previous year. This assures the zon tinuation of the payment of generous dividends to the participating policyholders of the Company.

The steady growth of the Company is illustrated by the following:
STATEMENT BY DECENNIAL PERIODS

| Year. |  |  | Paid to | Business |
| :---: | :---: | :---: | :---: | :---: |
| 1875. | Income. 29,593 | - Assets. | Policyhold | in For |
| 1885 | - 270,697 | 750,344 |  | \$ 1,177,085 |
| 1895 | 735,079 | 3,123,575 | 328,829 | 8,259,361 |
| 1905 | 1,956,519 | 9,296,092 | 552,914 |  |
| 1915. | 4,972,782 | 26,894,524 | 2,035,814 | 101,092,030 |

A full report of the proceedings of the Annual Meeting and the detailed financial statement will be mailed to every policyholder in due course

GEO. WEGENAST,
E. P. CLEMENT

Managing Director
President for, and-and help me to carry out, for Aunt Fay's sake. Poor Aunt Fay, who's
suffering with her heart at this suffering will she have to at this minute? don't stand by her !'
"rll stand by her with all my might
and main," said Nell. "What can I "I'm breaking it to you-by degrees Alb was-is-in love with yo
"It was fatally easy. And then
sid you were engaged. the second degree ; and the third that's ast is, that I beg and implore you to
ome on deck with me, and tell him It's an't possibly. Anything elso-but not "It's the one thing cankly, is youn Buren-Nell-I tell you fraid she won't much longer be Isd ${ }^{\text {rachairne. }}$ Good gx ered the 8
"Tragic !" I agreed, stam- ut I say nothing of my foelings. You he'll be alone in the world-with Tibe nis way for her." sacrifice yourself in Nell's face was now white and set.
it a brute; but what was and or the sake of every ome concerned, fposed myself, and the exposed, or be the last, in conture trip broken $u$ I hung on her lips. Jonkheer Brederode ?" she mol He's said the same, already. Or through, I don't see how It'm to cNairne's sake, I'll-do it. Lor Lady ait a minute," I urged, restraining more, first. After Sir Axplain a ked with you, he'll want sir Alec has urching the cabins, and everywhere ve, till he's made surer he won't be ling that she's not on board. If you'to him that a person named Lady Man for the win or I can't an
he comes below, he 'll see her." doesn't matter, es they've never
so long as he doesn't know her well, he shan't learn it from And he mustn't from Miss Rivers. any provocation whatever, to speak If will. But why hacNairne ? Phil was engaged to Jonkheer Brean Buren wouldn't have But what about him? It's my telling him anything; he racNairne asked him, alone, whero ard over her, while Phyllis and Aunt Fay," I murmured. "If Alec MacNairne peofs in, I'll then," said Nell.
followed her into that tasteful abin which, in the dim past, I
ed for my own us? difficult task
Buren to say ng than not to say anything at
though he was puzzled, and not I extorted from him him a promise won't know yny account to speak. Said, determining to strengthen
Alec's mind, by every just arranged mat Robert's

FEBRUARY 10ッะว16


THE FARMER'S ADVOCATE.
RIDER AGENTS WANTED


## 

Winter Resorts spgcial round trip parres
Lone Limit- Stopover

 Bermuda and. West Indies Other Health Resorts:
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Further


## Read <br> Bulletin 223 Issued by Ontario Depar of <br> Agriculture <br> Farmyard Manure

(Greatest of all Fertilizers)

## Money-Maker for the Farmer

Sit down and carefully read "Helping Mother Nature," Chapter I. shows how mahure assists the land, and its actual manure loses its value by leaching and firing Cher II. shows how on to show how it should be kept till used. Then go in goee next chapter about how to get the fertilizer distributed for dollars and cente profit. Chapter V. suggeats how much to use, and why, and where. Chapter VL ehowa how corte and um.t cropui It's

NISCO gen is so vitaly interostfarmers neglect an eave proftere moot ing the manure has always been an unpleasant and unaatitfactory iob

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of the dill read the
the team and-well. read the book. A copy
you There is no charge for it Addrease
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the latter was dried out, leached, or fired
This Book will Open Your Eyes! It's


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Please send me the book, "HELP NG MOTHER NATURE.


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Anything Thatrequires "POWER" ChURMIMc. Chumning is




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THE FARMER'S ADVOCATE.
ongaged to him fust to savo my teolings
atter that acene
with Sir Alec Maca


 perfect deare," I said.
Oh, do like you.
now wes're it too funny I I we're brother and sister-he can say thought
It might be in love with yon
"Owl ", I "And all the time I was so horribly airaid he might suspect I cared that I
would hardly speak a word to him.
Besides I Besides, I didn't suppose he could be
bothered listening to anything I midht have to say. And I felt quite sorry hor him when Phyllis was engaged to her, too. Your Phil, I've been horrid to persuade herself to take Rudolph with-
out loving him, and I just hated her
"Oh, that was what you meant, then!"
I exclaimed.
"
exclaimed.
"What I meant ?",
"It doesn't matter. Well, make you
mind easy, sweet sister. Alb adores your
-has adored you since the first moment he set eyes on you, and will till he
closes them in death. That's my con-
viction as his lifetime friend. And my advice is, go on being engaged to him.
until you marry him." "Mariner, what an old trump you he was behind me, neat as a pin, in his own suit of clothes, and radiant in
his new suit of happiness. "I give her to youss. Alb," said I.
And then I strolled away agin, ming to the air of the Dead March in
Saul, or something Sau, or something equivalent, those
haunting words-

Civing agreeable girls away-
One for you, and one for you, but never
ver one for me !

## Suits Free!


#### Abstract

Nomarkable Cloth that Won't Wear Oùt


pair of pants absolutely free! a most
astounding offer is being made by a well-
known English firm! They have dicov-
ered a remarkable Holeproof Cloth. You can't tear it! Yet it looks just the same is $\$ 20$ suiting. You can't wear it out o matter how hard you wear it, for if
luring six months of solid hard grinding days), you wear of the week (not just sunjarment will be given free! The firm will end a written guarantee in every parce!.
Think, readers, just $\$ 6.50$ for a man's suit, and only' $\$ 2.25$ for a pair of pants,
sent to you all charges and postage paid, and guarantee for six months' solid grind-
ing wear. Now, don't think are miles away you cannot test these remarkable cloths, for you simply send a 2-cent postal card to The Holeproof
Clothing Co., 56, Theobalds Road, London, W.C., Eng., for large range of ponThese are absolutely free, and postage paid. Send 2-cent postal "card" at once!

## Questions and Answers.

 2nd-Quettions ahould be clearly stated and
plainly writen, on one asde of the paper only,
and mut it and must be accompained by the full name and
addrese of the writer.
Jrd In
veterinary 3ra- In veterinary quest oloas, the symptomp
eeppecilly must be fully and cleary stated, other
wise satisfactory th -When a repply by manil to requiven. to urgen!
veterinary or legal enquiries, $\$ 1.00$ must bi

Miscellaneous.
Source of Suction. $\underset{\text { quire a suction. } \quad \text { Kindly explain how }}{\text { a }}$ and what makes the suction in a power
vacuum-cleaner. Is it made by a is so, what shape is the fan, and how
is it enclosed? Ans.-In some vacuum-cleaners the suc
tion is caused by a appear cn the bottom of the cleaner, and
the fan placed directly draws up the dirt and deposits it in the form of suction consisting essentially form of suction consisting essentially
some form of air-pump, drawing through a of airzle which is drawing av the material to be cleaned. The dust
is carried away with the alr-stream and
deposited in the collecting receptacle.


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opportunty
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 Get ready now for spring tapping. Select
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in City. Factory and Farm, are daily serving $\begin{aligned} & \text { Notwithstanding the } \\ & \text { very moderate cost the }\end{aligned} \quad \begin{aligned} & \text { until you know what } \\ & \text { the Stromberg-Carlson }\end{aligned}$ instruments are most
carefully constructed $\begin{aligned} & \text { apparatus will } \\ & \text { the same jobl cost for }\end{aligned}$
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21 Barley and 72 Oats


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## Questions and Answers

 Miscellaneous.Frost Proof Cellar-Sowing Timothy with Alsike.
wareho se for storing seven thousand bushels of potatoes. What facilities in and out
2. I expect to take a crop of alsike timothy seed on this field mext if spring will it come on for hay the following Ans.-1. Nine thousand cubic. McF. space would be required to store 7,000 bushels of potatoes. A cellar 60 feet by 25 fret by 7 feet, would be of suff-by-four scantling and boarded tight on the inside to give a dead-air space, shou:d keep out the frost. If not,
building paper and buinding paper and another thickness of
lumber could be put on. Where the is a building over the cellar, doube hoarding the ceiling would be sullar, double
The cel:ar could doors in the ceiling. Cne wide drap
con'd be buit in the wall wagon might be backed into the cellar Where it is not convenient to have a roof could be put on the cellar and have to be boarded the same as the wall in order to keep out the frost.
2. It should.

Purchase of a Threshe
ng compent nual meeting we decided last year's an machine. There were four directors apdown in the minutes of the meeting broke up, the company advised the machines with a barley-bearder on, as
mat one this district, and as we have had two
and not to machines, the directors were told they did not sait the members, because managing director was in farder on. The uachine, and bought it, with a grainsent of the other on, wirectors. members have to ray for this machine
Please let us know Fabruary, as that is our meeting day.
Ontario. Ans.-The word "Limited not being
used as part of the name of the
ing con ing concern, we assume that it is not a
company incorporated ship. If the vendor of really a partner-
not aware of the circun the machine was
tend Che thachine, we think the purchase
protailly the would
to entitled to collect from the
 the losal right on on this, there mit he the
wrilinz, repulfiating and
that the wh platy

Gossip.



THE TIME, NOW! Al the winter rong, the trouled ontier
 while he talks, laments, listens, takes
advice and hesitating-FAILS TO ACTadvice and hesitating-FAILS TO ACT-
till the Springtime is on him and his horse is not yet able to work. Meantime the thrifty, prosperous, resolute man reads,
considers the evidence carefully consides Promptly -and his horse is quickly cured, worked, too, if needed. That's
exactly what happens every winter.






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& \text { Drugists Everywhere sell Save-the-Horse } \\
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Will reduce Inflamed, Strained, Swollen Tendons, Ligaments,
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blister, no hair gone. Horse can blister, no hair gone. Horse can be
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HESE are the days of heavy horse power expense. The horses are idle. Hay and feed. It takes five acres feed one horse one year. Horses are at the top of the market with prices higher than for years past. The market for horses is so good that, even at these higher prices, they are easy to sell.
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you are now doing with horses - the tractor does it better and you are now doing with horses - the tractor does it better and
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CLYDESDALES, SHORTHORNS and SHROPSHIRES

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When the entire stok will be sold absolutely without reserve. The stock con-
silis of imported and C Canadian bred reveisered
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Columbia


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ays of heavy horse power it's a shame to use them for S of land to raise enough to
ses are at the top of the market, ears past. The market or horses
tigher prics they are easy to sell
the to consider reple e be to consider replacing some of
kerosene tractor? - the tractor about all the work
ir time better and
ir time care for it. It increases it size form most ve acres for ever belt work
and of your horses now and save the
will take their place and do vour today for our 100 -page book
er," which we will send promptly
ens

Company of Canada, Ltd. House

by Auction

## SHORTHORNS OPSHIRES

ary 18th, 1916
 :ie" and "registered Shorthorn cows,
ith 70 head of thallan", fan imported and has, and a
ith home-bred flock that made "Fairview" famouse in Bred up to a standard, not down to
ale offers an opportunity to breeders to to on the Midland Division, G. T. R.
tances will meet trains on day of sale stance will be expected to have checks John $P$. смMpbell, wootrile

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FEbRUARY 10, 1916


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Questions and Answers

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Mednesday, March 1st, 1916
At this sale will be offered a number of choice animals, all Shorthorns. For cataC. L. NELLES, J. M. DUFF ILOWAY LODGE STOCK Angus, Southownus, Collies Southdown Prize Rams ROBT. McEWEN, R.R. 4, London Ont For Sale---Price \$200 Elm Park Keepsake 14th
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young Aberdeen-Angus bulls, well bred,
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choice prize-winning sons of my 1915 gr. champion
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Balmedie Aberdeen Angus



Springfield Aberdeen - Angus

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Have two good bulls and a few females of goo breeding at very moderate prices. Write. or better,
Come and se them.
Parm, Demorestulle, O.G. Gorsline, Lake View
Aberdeen-Angus ${ }^{-1}$ have a grand bunch
 Tweedhill - Aberdeen-Angus. Choice aloo females. If young bulls of serviceable ange James Sharp, R. R. 1, Terra Cotta, Ontario
Cheltenham, C.P.R. \& G.T.R. Shorthorns ${ }_{18}^{\text {high class young bulls from } 7 \text { to }}$

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particulars at once
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WM. GRAFNGER \& SON, R.R. No. 1, Auburn, Shorthorns - bulls, fermales, reds, roans, size

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ment the Messrs. Lemon have carried ment the Messrs. Lemon have carried
out for many years relative to their breeding operations. Years relative to theird's big producing abilities are explained when it is known that the last four stock bulls in
service were : First. service were: First, a son of De Kol
Plus, 22,300 lbs. milk: 956 lbs. butter in R. O. P. test. S. Scond, a son of
Evergreen March, 26,100 lbs. milk; 1,128 lbs. butter in R. O. P. test. Tilk; Third, a
son or son of Plus Fontiac Artis, 20,900 lbs.
milk; 985 lbs. butter in R. O. P. test. Fourth, a son of Daisy Pauline Pietertje, 23.800 lbs . milk; 1,037 lbs. butter in R. O. P. test. Her best one day's milk
was i10 lbs., and eight months after calving she made, in R. O. P. test, 20.72
lbs. butter, and her dam is in Canada witt two daughters giving 110 lbs. each in one day. This bull is no
in service, and is, on his sire's side in service, and is, on his sire's slde,
hall-brother to May Echo. Her recor
in R. O. M. was 31.341 . in R. O. M. was 31.34 lbs .; in R. O. P.
$23,707 \mathrm{lbs}$. milk and 1,042 lbs. butter. Among the high-class cows in the her are such good ones as Pansy De Ko
Artis, R. O. M. 24.71 lbs., in and 102.83 los. in thirty days. She
a daughter of De Kol Plus mention above, and the dam of Plus Pontia
Artis, 20.000 butter, R. . O. P. test, average butter-fa
test 3.75 per cent. test 3.75 per cent. as a three-year--1
which is the Camadian record for th age. Her sire was a son of Pontia.
Korndyke. This cow is also the dan
of Pontiac Korndyke plus and son of Inka Sylvia Beets, a twosch, the sir-ol of May Inka Sylvia, whose one-day milk
record 36.33 lbs. This tavo-y is for sale, and with such acheor-old bul fit to head the best herd in Canada with swo doug only bull in this country
wiaghters over the 33-lb. mark The first cow mentioned,
Artis, is the dam of the
chan sirampion bull, Plus Inka Artis,
Here also Inka Syla Here is a young herd-he Beets Posch one, whose breeding can scarcely be
duplicated in the great cow is Inka Artis De Kol Another los. milk as a two-year-old in R. O.
average test 4.63 per cent. She
full sister to full sister to the young bull first men all running in the test this year, an
are all expected to beat the 20 anall are expected to beat the 20,00G-1
mark. Queen Ann Evergreen made
700 and 13.07 ibs. butter. She in R. O. P.
dauphter grand daughter of Evergreen March on her
sire's side, and her dam and sire's side, and her dam was a $27.10-1$ b
cow. She has a yearling bull, sired Pontiac Korndyke Plus, mentioned abo
This Phis young bull has four dams in hi
pedigree with records over 20,000 lbs
each. Several other cows
$\qquad$

Questions and Answers. Miscellaneou Kale for Sheep-Sheep for Wool and 1. Is thousand-headed kale good feed heads stick to it fattening? Do the 2. What breed of sheep produces the
host wool ?
$\qquad$
$\qquad$
$\qquad$

wool. Rape makes a stplendid to the fur sheep, and is considered better than 2. Some of the fonc-woolled lire ds, as
$\square$
$\qquad$
$\square$ Cows that will nurse milking calves rigst. a day. Brice easy, weshy

## GREAT AUCTION SALE 45 Head of Scotch Shorthorns 45

By Public Auction without reserve

## Friday, at 1 p. mo. Fehruary 18th, 1916

AT UNION STOGK Yards, WEST TORONTO, ONT.
Having recently purchased the entire herd of Shorthorns fröm Mr. John
Milton, of Brantford, Ont. I have decided to sell, without reserve Milton, of Brantford, Ont. I have decided to sell, without reserve, a numoffering inclades four imp. cows and one imp. bult, and many from imp. The and dams of the best families obtainable. A number of these were bred by

THERE ARE 15 BULLS AND 30 FEMALES ows in calf and cows whin chate lot on not specially fitted for a sale, but there are some show animals of hich order There will be one of the best young bull calves, sired by the great champion being one of the best cows offered to the public in recent of this calf, heifers by such well-known show and breeding bulls as "Brewears. "Also "Trout Creek Wonder." This will be a great opportunity to secure a show animal, a herd header, some money makers or foundation stock.
$\underset{\text { Capt.T.E.Robson }}{\text { K. McEwen }}\}^{\text {Auctioneers }}$ J.M.Gardhouse, Weston, Ont.
Elm Park Aberdeen-Angus - any herf has won mor pritan sina


## 20 IMPORTED BULLS

## 

 Burlington Jct. G. T. R. Burlington phone or telegraph Freeman, Ont Robert Miller Still Pays the Freight-And he is offering in Shorthorns some of the bett
 Cloverlea Dairy Farm offers for sale a cho
 GRIESBAGH BROS

Collingwood, Ontario.
Spruce Glen Shorthorns whan in pat of weuminn , hick, mellow fellows one and two-year-old heifers. Able SHORTHORIS OF SHOW-RIIIG OUALITY WE Mot in wit
 R.M.D. WALDEMAR, ONT., P.O. AND STATION SHORTHORNS and SHROPSHIRES $\begin{gathered}\text { T.LLMERCER } \\ \text { Markdale, Ontario }\end{gathered}$ young bulls from 9 to 18 mos. of age, richly bred and well fleshed.
$\qquad$
PLEASANT VALLEY FARM SHORTHORNS

 JOHN MILLER, Ashburn, Ont. Myrtle of all.
O K A N D 67 males and females (mik
 511014 then $\begin{aligned} & \text { RICH IN BREEDING, HIGH IN OUALITY } \\ & \text { My herd of Scotch and }\end{aligned}$ as never stronger in number ror ind inoultityone the Spring T .|
$\frac{\text { KYLE BROS. Drumbo. Ont. Phone and Telegraph Via Ar }}{\text { Rosedale Stock Farm We are offering for sale }}$

 M. Gardhouse, Weston; G. T. R. \& C C.P.R. and Electric Lines; Long-Distance Telephone "Maple Hall Farm '" Shorthorns ${ }^{-10}$ Three choice young bulls, eigitit

Aylshires $\begin{gathered}\text { Sir Edwin of Melrose = } 46879=\text { our splendid stock bull for sale, also } \\ \text { young bulls and bull calves from good cows. }\end{gathered}$


## FOUNDED 186

## CTION SALE

 h Shorthorns 45
## ebruary 18th, 1916

s, west toronto, ont herd of Shorthorns fröm Mr. John
cided to sell, without reserve, a num from the Rosedale Farm herd. Th ie imp. bulf, and many from imp. sir , Cargill, Ont.
LS AND 30 FEMALES Is foot, together with a choice lot o are some show animals of high, and rquis to the public in recent years. Also a great opportunity to kers or fo
Gardhouse, Weston, Ont.
Our herd has won more prizes since 1893 than
ny herd in Canada, and in 1 in
on to Edmonton, at all fairs except won mrandon,

## ED BULLS


J. A. \& H. M is offering in Shorthorns some of the be
be produced. Young bulls fot iger; and some in calf. They fill for servide
ng families. They the be
 RORT MLLER, Stouffille, Ontarl
 Collingwood, Ontario. orns whan in mato of somem


## IG QUALITY

 WALDEMAR, ONT., P.O. AND STATIO HIRES Markdale, Ontart ung cows in calf, heifers from calves up anvell feleshed. RM SHORTHORNS ra hcader or to raise better steers is right now
al scot. also several cow and heifers. Thite
on. Ont. C.P.R. (11 miles east of Guelph.) S $\begin{aligned} & \text { and } 40 \text { females. } \\ & \text { wroach ewes for sale at }\end{aligned}$ Myrtle Sta., C.P.R. \& G.T.R.
 sired by one of Ontarios beirerst bum bulls stitio
All god

A god individuals. Write or come and H IN BREEDING HENSALL, ONT: | eerd of Scotch and Scotch-topped Shorthore |
| :--- |
| never stronger in number nor in quaitt thot |
| I have the most fashionable blood of thit |
| od strains. $\begin{array}{l}\text { misit }\end{array}$ | od strains. Visit the herd. Also some right

or.
P.R.;Brooklin,G.T.R.;Columbus,R.M.D. Mns $\begin{aligned} & \text { Herd headed by the two gried } \\ & \text { breeding bulls. Newton Ringleadef } \\ & \text { (imp.) } \\ & 73783 \text {, and }\end{aligned}$
o. Ont. Phone and Telegraph Via Ayt

 Clectric Lines; Long-Distance Telephone Orns ${ }^{-1}$ th tweel choice young bulls, eighit
year-old heifers months old; also younges BIRRELL \& \& SON, Claremont, Ont
R. Pickering. G. T. R.
 ager, R. R. No. 2, Port Hope, Ont.

FEBRUARY 10, 1916

Apiculture Short Course a Success.
This Short Ontario Agricultural College, Guelph Jan. 1tit to 22, 1916. Owing to war
conditions a large attendance was anticipated. $\mathrm{O}_{\mathrm{n}}$ the opening day ho anticipated. on the opening day, how neven, later fincreased to thirty-five oung men and a fow ladies. Practicalengaged in healoen had been previousty ngaged in beekeep ing. They included colonies, sons and in one case ${ }_{n}$ beekeeper's hired man Kany different parts of Ontario were represented, also Quebec, and the Stat of michigan. The get-together spirit as much in evidence, and the interes gratitying. It is the purpose was very course to give the underlying principles of bee nature, a knowledge of whioh fifty - nino successful bee management. were given, covering the dififerent phases of beekeeping. Typewritten coptes of on one
each lecture outline were distributed to the class so the main points could be
followed cloeely and carried future reference. As far as possible the
lectures were views, and the actual objects under dis-
cussion. given. laboratory practice in in wive also
struction brruction, and a visit was made to the
apiary, of a successful neiphborhood of the College. the display of feature of the work was this was. The educational atus and keen interest shown by those present. n conducting this course, the Pro-
vincial Apiarist, Morley Pettit,
gisted by F W. sisted by F. W. L. Sladen, Apiculturist,
Central Experimental Farm, E. Malen, B.S.A., Lecturer in Attawa; F anh State Inspector of Apiaries for

Michigan; F. W. Krouse, Presiden | Ontario Beeke. Krouse, President of the |
| :--- |
| Armstrong. Selkirk, Association; Jat | Armstrong. Selkirk, Vice-President of the

Ontario Beames
Beekeepers' aome of the apiary inspectors of On-
tario. Lectures on allied subjects wn
given by other member Frank C. Pellett, of the College
of Iowa. paid the class. viate Apiarist
old tured on beekeeping conditions in his
State. Throughout were many kind words of appreciation
by members of the class, and on the
last last day a vote of thanks, was tendered
Mr r . Pettit and the other instructors the valuable information received and
the systematic arrangement
It is It is proposed arrangement of the work.
for a do Summer School
for beekers at tha Cural College some time in June. when possible. Persons interested should write at once for particulars to Morley
Pettit, Provincial Apiarist, Guelph Ont

Gossip. A you want milk you can get it from other column of the big, 40 -head sale
to Nothing but females will be offered. Th
Norfolk Holstein-Friesian Norfolk Holstein-Friesian Breeders' has had two sales, and people were we
pleased. The stock this year is bette than before, so buyers will be sure ot good bargains. Write to Wallace H.
Mason for catalogue as directed in the advertisement.
$\qquad$ pany was wearing a nice new pair oo
boots. "How did you manage to get "Well," them ?" asked mat envioustry. a German I killed." ", and found them on ful, and that night disappeared. Early trenches carrying a pair of boots. Mak-
ing for his friend, he whispered. the hardest job of my life. Had to kill about fifty before I got a pair to fit me."


## Escana Farm Shorthorns


 mitchell bros.

Burlington P.O., Ontario
MAPLE SHADE FARM SHORTHORNS he products of this herd have been in very strong demand. There's a reason Can always supply a good young bull at a price which will make him well worth
the money. Not many females for sale but can show a few which should interest yout the money. Not many females for sale but can show a few which should interest you
W. A. DRYDEN,

SHORTHORNS AND CLYDESDALES


GLENGOW SHORTHORNS AND COTSWOLDS
 Wm.Smith \& Son, Columbus,Ont. Myrtle C.P.R., Brooklin, G.T.R., Oshawa, C.N.R.
SHORTHORNS YORKSHIRES SHROPSHIRES We have a choice selection in young shorthorn bulls. Young Yorkshires of both sexes, shearling ew
ram and ewe lambs. We aim to please by shipping quality. Write us your wants. RIGHARDSON BROS.

Columbus, Ont Wood holme Shorthorns For Sale- Four bulls sired by imp. Lord Gordon, fit to head from good milking families. Also a few good heifers in nice condition that 1 can sell worth the
money. Mail orders filled with greatest care. Write your wants. . M. FORSYTH,



Lymore Stock Farm
Imported Dairy Shorthorn Stock. Im ported English Berkshires. Young
F. W. Cockhhutt, Prantford, Ont.

## Insist on "GOOD LUCK" Brand <br> COTTON SEED MEAL



| Write for feeding directions and prices to |
| :--- |
| Crampsey \& Kelly Dovercourt |

1854-Maple Lodge Stock Farm-1916
SHORTHORNS AND LEICESTERS We have now for sale, one red bull, eleven month
from one of our record cows. ones, very desirable stock. Two. ram lambs and
four ewe lambs remain for sale. Choice ones at our ewe lambs remain for sale. Choice ones a
very moderate prices.


Raised Without Milk!
 Blatchford's Calf Meal

 Sce Actaal Mgimes mitu dimit



SEPRRATOR
Asomparorgioy moid



New Edition Modern Silage Methods



## Holstein Bull

Well bred 6 mos. old bull fron
good producing
gain for quick sale.
M. G. RANSFORD

Cllaton, ${ }^{\text {Ontarito }}$
HOLSTEINS
 or service. Two grandsons of "Rag sons of "King Segis Pontiac Duplicate,"
one of the best.
R. M. Holtby, R.R. 4, Port Perry, Ont. HOLSTEIN BULL



Lakeside Ayrshires
formance dams, imported and Canadian of Pred.
sired by Auchent 35758., grand champion at atoth (IImp.)
and Sherbrooke. Write for Cataloevec Oominion Express Bldg. Hish Highty-Class Ayyrshires bull out of a 50 -lb--a-day you ang a
 For Sale ${ }^{-t w o, ~ J e r s e y ~ b u l l s, ~ g r a n d s o n ' s ~ F a i r y ~}$ Champion, Toronto Rale Raleigh dam of one, Juarior $\begin{array}{ll}\text { IRA NICHOLS, } & \text { Woodstock, Ont. } \\ \text { Norer }\end{array}$

Notes on Cow Testing. To assist dairy farmers who desire
test their herds for milk production, Dairy and Cold Storage ommissioner a
Ottawa has issued for public distribu tion a pamphlet entitited "Cow Testin
Notes,", and desighated Circular Nos. D. \& $\%$. Series. The pamplet show
the
necessary
equipment, scales, box of oq sample botties, dipper
etc, and tells the cost of each and Where the outht may be procured, a
well as the purpose and method of use of Thach.
the Department of Agriculture, through
onairy and
 July, 1915 , the branch received reco
of 22,669 cows. Evidences of the va of 22,669 cow
of
onw test of cow testing are given:
Cow testing not only produces better
cows, hut mone intersted dairyme
With each o Cow's record before him, the
dairyman is able ' to feed more intelli
yently dairyman is able 'to feed more intelli-
gently. Meal in proportion to milk Q good motto.
The figures of a creamery statement at
Way's Mills, Que., show that Way's Mils, Que., show that from a
herd of twelve cows in 1912. the cash hera of twelve cows in 1912 . the ca
received by the owner was $\$ 297.85$
1914, from twelve cows, he receive $\$ 804.48 . \quad \mathrm{He}$ discovered the poor cows
and got rid of them. and got rid of them.
At Mallory town, Ont., a herd of twelv


|  |
| :---: |
|  |  |
|  |  |
|  |  |tat, an increase of 1,656 pounds

tatands of
aind 67 pounds of fat in two years.
Thris pamphet is available at the Pul iications Branch of the Department
Agriculture at Ottaw.

The Cost of Producing Milk.
The esst of productng milk obvious!
depends a great deal on the milking Capacity of the cows ued. Compartson
between eight of the best and eierht the porer cows in an best and eight on
ord center shows tairy rec. ference in profit per cow there was a dit-
fer

 vere difference would no nount haved pound bee
very much revuced had the feeding bee
the same tor the same for all the animats.
thelded the higher prosit.
hatter better teded then higher pronalis. tere . m
age cost of the others. period beine their feed for the milkin
tood received by the per head, while t th
mals

 a hundred pounds of cents profit
higher-yielding while
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 more of equal value, is contained in tin
rocently Dairy and issued Annual Report Storage of the
Commissioner This Rerortment, in of Adition ticulture at ottawa
Colth Cold Storage Commissioner's general re re
port, contains deal with the work- op the tassistan
Dairy Cormissioner, the extension
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met sions. etc. An and cord storage div
terest gives statisticendix of unusual in the unver

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SThis Report is availatle at the oflic
The
If you cuntemplate buritling. see the ad
vertisement elsewllere in this issue of


Third Annual Consignment Sale of

## 40 Holstein - Friesian Cattle

## At SIMCOE at 1 o'clock

## Wednesday, February 16th

Just north of the Air Line Station, at barns on "Lyn River Stock Farm." The offering is females ONLY, and is by members of the Norfolk Holstein-
Friesian Breeders' Club. Advts. of young sires in the club for sale will be Friesian Breeders club. Advts. of
found near the back of the catalogue.

TERMS-Cash or credit on bankable paper Send for catalogue to secretary of sale.
Wallace H. Mason, Simcoe, Ont. R.R. No. 4. James Dunlop, Auctioneer

## LYNDEN FARM HOLSTEINS


 two 33-lb. daughters. Also the champion yearling bul at Guelph, by the same sire,
and another yearling with four 20,000 dams in his pedigree. Also a few richly-bred
young lambs.

## S. LEMON \& SONS,

RIVERSIDE HOLSTEINS
Herd headed by King Johanna Pontiac Korndyke, a grandson of Pontiac
Korndyke, and a brother of Pontiac Lady Korndyke, 38.02 Ibs, butter
J. W. Richardson, R. R. No. 2, Caledonia, Ontario

## HOLSTEIN CATTLE

Canary Mercedes Piertie Hartog 7 th heads our herd. His dam gave 116 lbs. milk in one da)
and 6,197 in sixty days and made 34.60 lbs. butter in 7 days. There are more cows
 D. G. FLATT \& SON, R.R.No, 2, HAMILTON, ONTARIO UALITY AND PRODUCTION are combined in the dams of the young bulls - all ages for sale.
M. H. HALEY

Dumfries Farm Holsteins Think this over, we have 175 head of Holsteins, 50 bo heifers from calves up to 2 yrs. a s well as a dozen yearling bulls, and anything you may select
or sale. Breeding and individuality the very best. S. G. \& EARL KITCHEN
. George, Ont
Ourvilla Holstein Herd $\frac{\text { If you are starting a herd, or wanting to improve one }}{\text { look at these young sires for sale, from Homestead }}$ Sust Orantha, at three years 26.50 : Ourvilla Susie Abbekerk, at three years ${ }^{2620.02 ;}$ Ourvilla Calamit;
Ormby, 22.14 at three years; Homestead Hellon Abbekerk, at three years 23.51 , and a few other Also come and make a selection in chooce LAIDLAW BROS., Aylmer, Ont.
emales from our herd of 100 head.
 and make your selection. Price and terms to suit. Cattle
will be good working shape, not forced or fitted for sale purposes. SO
HAMILTON FARMS,
Telegraph and Phone Niagara Falls. Farm 10 minutes trolley from Niagara Falis., ONT. Clover Bar Holsteins My special offering just now are some choice young bulls Ormsby, whose dam has $3-30 \mathrm{lb}$ sister, and a 244 Ib. lial recorold and a and and ired by count Merced
and his sire was the great Sir Admiral Ormsby. Aiso a few females. PETER SMITH, R. R. No. 3, Stratford, Ont. Stratford or Sebringville, Station Evergreen Stock Farm-REGISTERED HOLSTEINS resent offering; Several bull and heifer calves, also a few yearling heifers bre rices and descriptions Bell 'phone. A. E. Hulet, Norwich, Ont Lakeview Stock Farm $\begin{gathered}\text { Bronte, Ont. } \\ \text { TESTNG } \\ \text { BREEDERS } \\ \text { HEL }\end{gathered}$ Terms tonsisting of 1 male and 3 females all bred in the purple and backed by officially tested dame
T. A.-DAWSON, Manager HOSPITAL FOR INSANE, Hamilton, Ont. For Sale - Holstein Bullis
 QUEEN CITY HOLSTEINS

Present Offering is 10 young bulls, from 6 to 14 months of age, the records of whose dams,
sires dam and her full sister, range from 28 to 32 lbs. They are sons of King Lyons
Hengerveld Segis.
For Sale---Sons of King Segis Walker
A.A. FRREVELL



want a young bull from one of them? Al
JAMES BEGG \& SON
R.R. 1, St. Thomas, Ont.

## ment Sale of

asian Cattle

## ruary 16th

mbers of the Norfolk Holstein-
, Ont. R.R. No. 4. HOLSTEINS


$\stackrel{\text { OLSTEIN }}{\text { Lnant }}$


, Caledonia, Ontario

## ATTLE

inam gave 116 lbs. milk in one day
in 7 days. There are more cows
of milk a day than and
HAMILTON, ONTARIO
ed in the dams of the young bulls tter in 7 days. Also females of 5 over, we have 175 head of Holsteins, 5 bulls, and anything you may select in

 W BROS., Aylmer, Ont rs and heifer calves. 66 HEAD MUS7
isposed of my twotok farms. Coms
tion. Price and termet rrposes. SOUTHEND P.O., ONT
ates trolley from Niagara Falls., just now are some choice young bullt
d dams and sired by Count Mercede $d$ and $a$
emales.

TERED HOLSTEIN Iulet, Norwich, Ont. ite, Ont. BREEDERS OF HIGE
TING HOLSTEN-FRIESIAN CAT
OFFE VSON, Manager
Ont. For Sale - Holstein Bullio Ont. varying in age from 1 te 11
ams and they rand bulls Sir Korndyke
Duchland E Stranze, a grandson on SUPERINTEN
onths of age, the records of whose dams,
32 lbs . They are sons of King Lyons

## Segis Walker

$\qquad$
The home of Sir Sadie Korndyke
Seeis, ise King Segis DeKol Korn-
dyke , wite King e have some of his bull calves for sale
digree or come ow qualified in Record of Performance
average of 4.5 per cent. fat $\mathbb{R} .1$, St. Thomas, Ont

February 10, 1916
Questions and Answers. Miscellaneous.
Killing Lice.
Nould you kindly let me know, through the columns of your valuable paper. in
what proportion you mix Goot soap to kill lice on cattle

Ans.- - e have never used this mixtur
Why not try the cernent and hellebor mixture recommended hy Institute, speak tried it. Mix one part hellebore to arts dry cement and dust down the cat in a week or ten days. Ppropication remedies advertised in these columns wil

Probably Contagious Abortion.
 we think has contagious abortion
she $d_{0}$ to ow wreed again next summer ? Ans - It the cow is a valuable animal
certainly she should certainy she should be bred again. Dis
infect her exterior genital organs, and herd. Disintect the other cows in the her gen:tal organs with ables. Flush out fectant solution. Take precautions tisindisinfect the sheath of the bull before
and after service. Shé may abort again. on breeding regularly in the futurey go Infant and Tutor Some years ago A died, leaving one
child. An inventory of the mover was taken, and B, the father, appointed
tutor, and D sub-tutor, and registered.
B awned years after, B rented married. A few another Province. Lately, B moved to gaged farm nearly to its full value. The
child is now of age, but ing to its support for contributed noth1. Will mortgages come in before the 2. Should there have been security
taken on the farm for child's share?
3. Should it 3. Should it have been registered
against the farm? Quebec. $\begin{aligned} & \text { What the duty of sub-tutor? } \\ & \text { SUBSCRIBER. }\end{aligned}$. Ans. - . We do not see that the chil
2. No legal claim upon the farm. 3. No.
4. We presume that A was B' wife and that she died intestate as to he
share of the movables. The child, ac
cordingly, became death, to two-thirds ontitled, upon her share. A this property in particular, and
duties generally of a sub-tutor, should consult, personally, a lawyer a

## Veterinary.

Nir-Slaked Lime.
on pigs ten or action of air-slaked lime
twelve weeks old. After eaming the pen I threw a little on the took diarrhoea, and two died.
$\qquad$ it might cause diarrhoea by setting up
$a_{n}$ irritation. It under the circumstances it mentioned the pigs ate enough to do any harm. Th
wis some other cause for diarrhoea. Urinary Trouble
Horse passes bloody urine, or prac
tically pure blood, three or four times
daily dally. He passes about half cupful of
blood at time. ence of one or more rough-surfaced calculi (stones) in the bladder. It will er wise to have him examined by a vet-
erinarian to make a definite diagnosis, as he may discover a deme other cause for tically nothing can be done, as drugg very expensive, and and an operation is to be satisfactory. the results not likely

THE FARMER'S ADVOCATE
245


DON JERSEYS

| old, sired |
| :--- |
| D. Duncan \& Son, |


| Wodmal Fern |
| :---: |
| Todmorden, R. R. No. 1, Duncan Sta., C.N.o. |

 B. H. BULL \& SON, - These buls are it for any show-ring. ONTARIO THE WOODVIEW FARM CANADA'S MOSTBEAUTIFUL JERSEYY HERD JERSEYS $\quad \begin{aligned} & \text { Half the herd imported from the I Iland of Jersey, Several cows in } \\ & \text { the Record of Merit, and others now under ofcial } \\ & \text { cho }\end{aligned}$

H. ARKELL w. J. Arkell F. S. ARKELL Summer Hill Stock Farm

## OXFORDS

in Canada. Look up our show record, it will give you an idea of the PETER ARKELL \& SONS, Proprietors, Teeswa ter, Ont. ustomers, beware of imitations of this advertisement.



## Gossif.

ANNUAL SALE OF SHORTHORNS AT GUELPH

 are several high-class show bulls of excellent breeding, fit to head any herd. from the herd of W. C. Edwerds oull Rockland, and many emaller consignments from other prominent breeders. Further particulars will appear in next week's issue. For catalogues, apply to THE "FAIRVIEW" DISPERSION. fd stock to be held at "Fairview", wood ville, Ont., February 18. Clydesdales, Shorthorns and Shropshires, among the best in America, will go at the buyer's persed to wind up the estate of the late D. J. Campbell. Stockmen all over Canada and the United States know the standard of the great winning herds and
flocks owned by the Campbells focks owned by the Campbells at Fair-
view. Real world - beaters will be of Rered. It is the opportunity of a lifecatalogue. Attend the sale at Weot a
ville advertisent. Get ville, 65 miles north of Toronto WoodIdland Division G. T. R. You will be


This Book inthe'spoing

## -Means Fine Crops CinSmmer \& Eall

^TRONG, vigorous seeds, tested for vitality and of strains selected for bountiful yield in Canaad's climate, go a long way̆
early crops. For forty years,

## Phe ODonald <br> TRUESTED SEEDS

have fulfilled all these requirements. The latest edition of McDonald's Seed Annual is just off the press. It is the finest catalogue we have ever issued -a veritable fund of information for all who plant seeds for pleasure or profit.

Your Copy Ready for Mailing-FREE
No matter what seeds you have been accustomed to use, you should have this book before plantingtime. Describes McDonald specialties that have produced remarkable results and that cannot be obtained elsewhere.

Also spectal price offers on selections of standard seeds.
KENNETH McDONALD \& SONS, Limited KENNETH

## Put in as Big a Garden as you Possibly can

 this Spring-but be sure you put it in RIGHTI Thorough tilling and plenty of fertilizer are both important, but not more so than the choice of seeds. Like produces like", and you cannot expect fine crops rom inferior seeds.

## Ewing's Reliable Seeds

 are grown from selected plants of the very best strains. They are clean, vigorous, sure to growand for over Forty Years have been producing the finest gardens in CanadaYour first step will be a wise ore if you choose Ewing's Seeds. Get them from your dea
or if he hasn't them order from us direct. THE WILLIAM EWING CO., LIMITED

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## PEaRIISS PERFECTION



THE FENCE THAT STAYS"PUT"

PEERLESS Perfection is one of the easiest fencess to errect, because it stays "put.". It can be erected over the most hilly and uneven ground, without buckling, snapping or kinking.
very joint is vent sagging and require only about half as many posts as other fences.

## Peerless Farm Fence

is made of the best Open Hearth steel fence wire. All the impurities Makes the fence elastic out and all the strength and toughness left in. Makes the fence elastic and springy. It will not snap or break under ing prevents rust and the coating will not flake, peel or chip of

Send for catalog. It aloo describes our farm gates,

$-(\sqrt{10})^{\text {pon }}=$Agents nearly everywh ere
Agents nearly everywhere. Atgent
in unassigned territory.
The BanwellHorie Wire Fence Co, Ltd.
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Direct from the Factury to the Farmer
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# One Hundred Weak Spots to the Rod 

In the Average Woven Wire Fence



## A HARD WIRE THAT IS SHARPLY KINKED LOSES ABOUT 25\% OF ITS STRENGTH

Of the two cuts above, one is a lock of an ordinary woven fence, the other is a cut of a lateral wire, minus locks and stays, of the same kind of woven wire fence. Just look at the kinks that are put in thelateral wire to make the
stays hold. You do not notice these kinks when the stays and locks are attached; but they are there, sure enough, and how much they weaken the wires, you can well judge. YOU WOULD NEVER THINK OF BUYING PLAIN OR COILED

## Frost Fence First

The improved binding used only in Frost Fences gives greater security without the necessity of a kink to hold stay in position. One big reason why, is the fact that we DO use hard wire, harder than could be used in those fences where the lateral has to be kinked. Shown in the cut below is a lateral wire and lock taken from a Frost Fence. The lateral wire, as you can
see, lies absolutely straight: no strength is lost at all. You can always depend on each wire in the fence holding just as much as it ever did, and in Frost Fence this means about 2,000 lbs.---one ton.

You can see now why "FROST FENCE" is better.


## WIRE WITHSU CH KINKS WOULD YOU?

Why, then, consider a ready woven fence, with thousands of these weak spots? A hard wire that is sharply kinked loses about 25 per cent. of its strength.

In a rod of most every other make there are 100 bindings or locks which mean 100 kinks in the laterals: 100 WEAK SPOTS we say. Is there any doubt of it? Why shouldn't such fences be sold cheaper than "FROST FENCE" --- not only a few cents as they are, but about "half as much" as they ought to be when "quality and service" is to be considered?

THE LATERAL WIRE, AS YOU GAN SEE, LIES ABSOLUTELY STRAIGHT: NO STRENGTH LOS'T AT ALL

To be sure about the above, make your own examination. Examine any of these so near llike kinds of fence and then inspe + the laterals in"FROST benc
亚
own and operate our Drawing and
we're responsible for the quality of all we turn out. We've got to be, otherwise, we could not keep the reputation we now have of being the biggest fence manufacturers in Canada.
Full size wire, Hard and
woven into finished fence makes "FROST FENCE" the fence you want.
Complete fencing supplies, all kinds of wire, and plain and ornamental gates.
Lawn Fences----Wire and Iron.

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[^1]:    When Building-Specify
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[^2]:    

