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tism, Tu berculosis and
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CONTENTS OF THIS NUMBER.

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CANADA HARDWOod Abhtrs.: $\because$......

QUESTIONS AND ANBWERES.











OTES AND MEWB. - FORESTRY ABBociation





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BOOK REVIEW.. -.. .. ..
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$\begin{aligned} & \text { That's why you need the very beet } \\ & \text { shinglos, no matter where elie you }\end{aligned}$
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are absolutely fire
and lighteak prool, and lemg to to apply.
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The country is in danger from trusts. Farmers, you are up against it. JOSEPH STRATFORD, General Manager.

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iue that can samples, because any medimust be drugged to the verge quiokly I use no such drugs, and it is danger. take them. You must get the disease My remedy does that, even in the most mit, obstinate cases. No matter know it and I take the risk.
Ihave cured tens of thousands of cases in this way, and nuy records show that pay gladly.
I have learned that people in generai are honest with a physician who cures don't expect a penny from you. Simply write me a postal card or letter. I will send you my book about Kheumatism, and an order for the medi-
ine. Take it for a month, as it won't harm you anyway.

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## A COMMON MISTAKE

When an animal is badly out of conwith blotches feed, and peres paps covered to appear, and it is a common mistake to attribute the condition of the animal to the presence of the parasite Whereas, in reality, it is the impurities mal that have attracted the parasite. The mission in life of the animal para-
site is the absorbing of impurities, and it is questionable if it is of advantage to the animal to have the parasite re moved by other meeans than by depriving
him of his mission. The parasite (shee no tive on an animal whose blood is pure, and if an animal's digestive organs
are working properly his blcod will be A pure aromatic ald to digestion, such as Herbageum is guaranteed to be, will regulate the digestive organs and
thus purify the blood thus purify the blood, and just so soon
as the blood is freed from impurities the mission of the parasite is gone and
he must find other fields of labor or Mr. Smith Evans, of Gourock, Ont., is OAford Downs, and his opinion on such
He matter carries weight He says $\cdots$ We have used Herbageunn during about six years, regularly, for our show sheep,
and we have never been troubled with any disease, nor with ticks, among our
flock during that time." Mr. E. M.
 bageum regularly," Mr. O. Hanley, of
Cainsville. Ont a practical feeder and xporter of cattle, says: "In re-stock-
ing my stable in January, there are always some of the animals, hadly troubled
with. lice, but one bageum knocks them higher than a kite. "t's arand for cleaning out lice, and it
keeps the skin soft, silky and pliable."cm-

## FAIR POSTERS

 The London Printing and Lithographiag Co.,

# Che <br> Farmer's Xdivocate <br> mammanand and jomagaine. 

Vol. XXXVIII.
LONDON, ONT., and WINNIPEG, MAN., MARCH 16, 1903. No. $57 \theta$

## EDITORIAI

## Rural Electric Railways.

The widespread interest now taken in the development of rural electric railway lines has sugity of making a special enquiry by members of our staff into this subject, the results of which are given herewith
Before considering the question of building a rural electric road, three important conditions must first exist: First, a sufficiently large popube a to be served by the road ; second, it must must not be excessive fation ; third, the mileage Other conditions country, the coss, such as the topography of the centives for using the right-of-way, special bearing on the situation, but the three enumer ated factors are those which determine the success or failure of the enterprise.
The first condition, that of a large population to be served, is always of first consideration, be cause on the carrying of passengers, and not on tirely depend. The primary necessity is eno centers of population for terminals, and the dis tance of these centers apart must depend upon the density of the intervening population in villages or purely rural districts. As the intervening population decreases, so the line must shorten in mileage if the road is to pay. So far it has been impossible to say how much of a population will support a given mileage of road. It would appears herer, that population y hecause adar service large ly because t
townspeople.
The second condition, namely, the nature of he population, may so vary that the first con ation would seem of lesser significance. A populasses is the best for electric railroad patronage. The rich drive and the poor walk, but the middle lasses always have the car fare, and so are the hest patrons. In this connection, a glance at tatistics shows that Canadians are more liberal In Harris urg, Pa., the returns from the street railway for 02 was for dollars per head for the whole Gluall size the roturns were five , a cilly of about limong the greatest special sources of incomead he summer theatre and excursion trips to parks un by the companies, and to these enterprises he rural population does not very largely conribute, but they are maintained almost wholly $y$ the middle classes of the towns
The question of mileage is one of the most difficult considerations with which the electric oad promoter has to deal. In this connection, ot only must the distance between terminal oints be considered carefully, but the question of wrpetition is also involved. When considering meage, the number of competing miles of steam Ailes likely to be built in the immediate future ave to be considered as so many miles of road these cases service of the public. In neither rould determine the number of miles of railroad hat a certain number of population would supfased or the distance apart of terminal points
on their number of population, largely be-
cause the class of prime factors in the operation of the road the electric road holds a unique position. past seven years have been considered good Ther steam roads in America, yet in that time the number of passengers carried on United States steam railways decreased by over twelve millions: This does not imply that people are travelling less frequently than formeriy, but that the elec as further pecuring the short-haul business, as further proved by the fact that the average passenger haul increased in those seven years from
23.59 miles to 27.9 miles a habit that grows, and these lines car riding is ness for themselves. As a freight handler the electric road also caters to the short-haul parcel business, and also for heavier freight in districts that are not served by steam road. . Developments in this line however, are taking place every day, aad the future may be expected to reveal wonders in the ireight-hauling business.
Being so largely dependent upon the populatio their existence, it is at of rallway service for is to deternine whether in seen how difficult 1 electric road will or will not nay. To sum up all the conditions and make correct deductions al quires a person who has given the question long study and who can carefully weigh every detail. In many cases promoters make calculations and conclude that if the municipalities through which their road would run would grant subbstantial bonuses the road could be made to pay. It is when such a proposition is made to the farmer that an electric road becomes an interesting city stores and schools increase in value, the each of the farm, and wourd be brought within would accrue, but'if a large bonus has to be paid for these advantages, then they are at once dis counted. Experienced rural electric-road managers find that bonuses entail exacting conditions, and subsequent friction, which interferes with re taining the good will of the people, upon which uccess depends.
The day of bonusing railroads is, or ought to he, past, and electric or steam roads should only be paid for the service they render the pulwith applications for tions, and other fayors, now that these exempare being so generally exploited.
In this connection a short sketch of the Woodstock, Thames Valley and Ingersoll electric road will be interesting as well as valuable to our readers. This line, about ten miles in length, was completed in July, 1901, and 'has been running steadily since. It connects Woodstock, a city of about ten thousand of population, with
Ingersoll, having about five thousand five hunIngersoll, having about five thousand five hundred. It passes through a very good farming lectrio and can be said to be a typical rural ville lies about midway be wage of BeachIt has also been a paying investment frome start despite the empetition of two paraltel steam roads, the C.P B and G. R The single fare is 20 cents from Ingersoll to Woodstick single turn, 35 cents. Except on one day, and then only temporarily, traffic has never been interfered with by snow. In riding over the line and back, we noticed that a great many of the passengers rode through from Ingersoll to Woodstock, or vice
versa. The promoters, an American company, after carefully studying the situation, decided to way allowance. They asked no bonus or high them free use of the streets Woodstock granted taxes for ten years. Ingersoll charges an annal rental for use of the streets- $\$ 100$ for the fing year, then $\$ 200, \$ 300$ and $\$ 400$. The outside right-of-way was purchased from the farmers, and is parallel with the highway. The site for the power-house was purchased about half a mile west of Woodstock. Cars run between the two towns hourly in winter, and quarter-hourly in summer. The road serves between sixteen and seventeen thousand of a population, who spend two dollars per head yearly upon street car fares. The com$\$ 120,000$ capitalized at $\$ 200,000$ in stocks and Woodstock and Ingersoll road heve from th to warrant the company in venturing further, and they have accondingly built a road from Brantford to Paris. Judging from the success of this company, it would appear that rural electric roads could be made to pay without municipal aid, provided the population were dense enough.
Roads like the Newmarket and Toronto line or the Galt, Preston and Hespeler road, cannot be taken as typical rural lines, as they are de in average localities. conditions that do not exis ronto line is in connection with the greatest To ter in Ontario, passes through a district that is not served by steam roads, and has a considerable population along its line. The Galt, Preston and Hespeler road is used as a feeder for the C.P. R. Passengers and freight are taken from the outlying towns and villages to Gelt, where the C.P.R. is at their service. A line built for this purpose by a powerful company like the C . P. R. cannot well be said to be typical of rural electric road such as the Ingersoll-Wood-
stock line which we have described and which stock line which we have described, and which such roads can be successfully run. Another condition which may
heapen the runaning of rural electric road vitally accessibility of power, if propenty conserved for the use of the people, from such sources as the Niagara River.

## Siftings.

In the five years preceding the closing of British ports against Canadian store cattle, about 88,000 head, both the ten years since 1892, 98,000 head, all fattened in Canada, were received there. There was also an increase in the dressed meat shipments from Canada from 370,000 cwts. in 1891 to 722,-
000 cwt. in 1901 000 cwt. in 1901.

The C. P. R. have purchased a large fleet of steamers to ply between Great Britain and Canada.

How very simple and easy it is to be pleasant under shining skies. Anyone can do that, but few there are who practice calmness under adverse conditions.

To see faults in your associates or members of your family-that's easy; in so doing no brains
are required. It is a noble virtue, however to be able to emphasize their good qualities.
the Farmer's Advocate

## and Home Magazine

 the leading agricultural journal in this THB WILLIMM WELD COMPANY (Lnatrod). Two Distinct Púulcatons-Enstrand And Weotren,
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THE WILLIAM WELD COMPANY (Lnatred),

## Postage to Great Britain.

In the interest of the Imperial relations of Canada, and the mutual interchange of knowledge between the Dominion and Great Britain, the "Farmer's Advocate" has repeatedly urged the reduction of postage on periodicals going from one
to the other. It has been practically prohibitory to the other. It has been practically prohibitory
or about eight cents per potnd, while the U. S . or about eight cents per potnd, while the U. S.
Postal Department rate is about the mere cost of Postal Department rate is about the mere cost of
service, or one cent per pound. The natural efservice, or one cent per pound. The natural of
fect of this has been to stimulate the circulation of United States periodical literature. To Sir of United States periodical literature. To Sir
Wm. Mulock, Canadian Postmaster-General, be longs the credit of bringing about the desired reform, so far as Canada is concerned. Under the terms of the universal postal convention, the
consert of both countries is necessary before any reduction of postage between them can be made Sir william has secured this from Hon. Auster Chamberlain, the British Postmaster-General, and on Saturday, March 7th, an official order from Ottawa took eflect, providing that periodicals rosted in any post office in Canada for the United Kingdom of Great Britain and Ireland may pass regulations, as if such matter were addressed to any post offce in Canada. This will, undoubtedly, stimulate the ci culation of Canadian papers in Great Britain, tend to promote immigration to Canada, and increase the volume of British business here.

Subscriber for Years.
I have been a subscriber to the "Farmer"s
Advocate" for ten years, und would not do with" Advocate" for ten years, and would not do wit
out it on any account.
J. N. KENNF. Olds, Alta

When called upon to give your opinion in puhlic on any quastion which may be before a meet-
ing, hesitate not. If you have never done ing, hesitate not. If you have never done so
before, remember that birds learn to fly by flying. and people learn to speak by speaking

The St. Lonis Fair.
Canada's live-stock' exhbit at the Columbian Exhibition in 1893 was a splendid display and a profitable advertisement of the capabilitics of the country, but the breeders of pure-bred stock, owing to the deep depreseion in nearly every line of business prevailing at that time, failed to reap as rich immediate returns from it as might otherwise have been obtained. Nevertheless, Canada's exhibit at Chicago in this and many other lines made a lasting favorable impression on many minds, and raised the country immensely in the estimation of all who were privileged to witness it. The seed sown then doubtless had much to do with the bountiful harvest of good prices obtained from American buyers of pure-bred stock in the last few years, and also with directing Dominionward the stream of emigration from the United States now coming in. But the circumstances have vastly changed since the Chicago show. The cloud of business depression has rolled away, and a bright time of prosperity is prevailing, with every prospect of continuing for many years. Canada to-day looms large in the minds of the people of many lands, a stream of emigration unprecedented in extent is coming our way, and from no source more numerous nor more gladly received than from the neighboring Republic, where many thousands are looking this way for homes where they know they will be welcomed and where we are confident they will succeed and will be satisfied with our laws, customs and institutions. It is from the Western and Southwestern States that the bulk of emigration from that country is coming and will continue to come, hence the vital importance of a strong representation at the Louisiana Purchase
Exposition at St. Louis in 1904 of Canadian Eroducts in many Lines, and especially of the farm. Of all the products of the farm, live tock represents the greatest value, and is the surest guarantee of solid success and security. It is, therefore, of the greatest importance that our
horses, cattle, sheep, swine and poultry shall be horses, cattle, sheep, swine and poultry shall be
represented to the best possible advanteg at the St. Louis Fair. In consideration of the at the mount value and importance of the farm paraend farm products of the country, there should bo no hesitation on the part of the Legislatures the Dominion, and of the Provinces, in making liberal appropriations for the purpose of encour aging a very strong showing in all departments of agriculture, and especially of live stock. Mexico, Texas, and the Southern and Western States, are bred stock our best outside customers for puremated vigorone and our stock easily accliof disease and the peoplo of the $S$ one resistance ably disposed towards Canadians South are favordeal with us. No better opportunity could fie than the St. Louis Fair presents for introdur our stock to the favorable consideration of the great Southwest. And the provision for this exhibit, in order to be most effective, must be made at the earliest possible moment. A year is none too long to prepare for such an undertaling, and th shourd be known before the close Legislatures just what amount of the various placed at the disposal af the denartomey is to culture for the promotion of this object. Farmers', breeders' and dairymen's organizations should ask persistently for liberal grants, and legislators necd have no fears that these demands will not which only and supported by public opinion tance of the subject in order to acquiesce. time should be lost, but immediate steps taken by every organization interested, to arrange for large
and infuential deputations to wait unon tho and infuential deputations to wait upon the Do-
minion and Provincial Governments minion and Provincial Governments, urging an
early consideration and disposition of this mat-
And a year is none too long for stockimen to prepare for such a show. Breeders should have
sufficient public spirit to make some survifica il need be, in order that the best of their stock shall be reserved from sule and fully fitted for the
best possible display. Canadian lireodere the masteriole display. Canadian orrecders have
great show if they but set themselves resolutery to the task, and we have every confidence that i he Governments provide for the expense, and for a special or supplementary prize list, if deemed necessary, the result will be in every way credit able, and the time and money involved well spent.

## Signs of the Times.

Upon the agricultural horizon of Western Canada, it is evident that a brighter era is dawning for the live-stock industry, and to those who can realize the important part that stock-raising must play in the future progress of this young country, the signs of the times are encouraging. In past years the wonderful ease with which money has been made from. wheat-growing, when favorable summer weather blessed the plains, has no doubt hindered many from embarking in an industry which they believed would not bring the most desirable returns. Others have believed that expensive buildings or considarable capital were necessary essentials to success in breeding purebred stock.
It is fortunate that these fallacies are daily being exploded, and the opinion becoming more universal that intelligence and skill in breeding and management can produce in Manitoba and the West animals of pure blood having merit quite equal to those in other countries, and at no greater expense than is necessary in milder winter climates. The interest which characterized the meetings which were held by the aseociations during convention week, and the thirst for kmowledge in animal form and conformation manifested by men of all ages who attended the stock-judging school that followed, is sufficient guarantee that the farmers of this country are as ready to appreciate opportunities for educational improvement as our Republican neighbor to the south, of whose attendance at the Iowa, Wisconsin and other winter judging schools so much has been written. When the young men, particularly, can be induced co come forward and take an active interest in stock-judging, such as they did at the school of instruction which has just closed in Winnipeg, it is indeed a hopeful sign for the years that are to follow

To the Horse, Cattle, and Sheep and Swine Breeders' Associations, many new names have lately been added, and with a permanent secretary, whose time will be entirely given up to their interests, it is certain that work of concarried into effect. live stock in general will be foot to establish a Winter Fair is at present on Province, at which cattle, sheep and swine the condition for which cattle, sheep and swine in culated to produce con, and stallions best cal There is no doubt but this stock, may be shown direction, and when the different associations placed themselves on record as being unanimously in favor of the establishment of such an institu tion, they were supporting a measure calculated one whichly stimulate the live-stock industry, but one which will place the practice of agriculture in benefits to be derived and firmer basis. The Show can be no less in Manitoba than in Ontario where it has met with such universal success, and the advantages which the old sister Province has gained from the Guelph Fat Stock Show have duction in which it aims the phases of meat production in which it aims to figure. It is quite prot able that suitable arrangements will be made the sum of the this kind during next winter, and try makes in prospects for the live-stock indus try makes it safe to say that better days are
close at hand.

I believe that outside of the learned profes sions, there is nothing that requires the same must be a man agriculture. A successful farme must be a man of quick observation and rapid perception, and be able to distinguish betweer J. A. M. AIKINS, K.C., Winnipe

## THE FARMER'S ADVOCATE.

## HORSES.

Bone Diseases of Horses' Legs SLINTS.-The (Continued). large and two small. The large bone extends fice is somewhat round, and its posterierior surlat. On each edge of the posterior surface is a
slightly roughened portion Slightly roughened portion, extending rather more
than two-thirds the length of the bone from knee downwards. The splint bones, somewhat tuberous above, gradually taper towards their inferior extremity, and terminate in a small tuber-
cle or bulb. These bones are attached by ments to the roughened surfaces on the posterio surface of the large bone. They articulate with the bones of the knee above, but have no articutation at their inferior extremity. The disease
known as splints is caused by inflammation being set up by concussion or direct injury (usually the former) between the large and small bones, the periosteum and the ligamentous attachment be tween the bones become involved and destroyed;
an exudate, the reeult of inflammatory action, is thrown out; this becomes converted into bone uriting the large and small borese, and usually leaving a larger or smaller protuberance of hard
bony material, visible to to the bony material, visible to the eye and easily
felt. In the fore limbs splints are usually sean on the inside, and more frequently on the outside when the hind limbs are affected, but are occa siomally seen on either or both sides of either
limbs. In some cases we see what is called a double splint, showing on both sides of the limb and in such cases there is usually a connection o ossified material extending from one side to the
other ; this interferes with the notion op other; this interferes with the action of a liga-
ment, called the suspensory ligament, and in som cases causes permanent lameness. Unless a splint is double, very close to the articulation, or very
large, it is not usually considered args. In many cases splints do not cause eve
hese emporary lameness, while in others lameness is quite severe during the inflammatory stage, but disappears on the subsidence of the inflammation.
Young horses are usually affected. It. is seldom ve see a case of splint lameness in a horse ower orser five years old, but we occasionally see even old horses affected. I may say that few horses (especially those that have been driven or worked
before arriving at maturity)
reach adulthood without having splints, and they sometimes ap-
pear while the colt is quite young even in its pear while the colt is quite young, even in its first year; but in the majority of cases they have become absorbed manych an extent ase no be in-
visibie and in matectable by manipulatiou, but the osses not detectabie byion betwo the
large and sinall bones remains for life. In the large and small bones remains for life. In other
words, a horse that once has words, a horse that once has a splint will al-
ways have it, although it may not be detectable ither by the eye or with the fingers. The lame ness of splint is usually characteristic. In most
cases the horse will stand and walk sound, or hearly so, but when jogsed will show well-marked cmeness. This is usually noticed in the early stages, before any enlargement can be detected,
but manipulation and pressure over the seat splint on the affected limb will cause pain; after plint on the anfected limb will cause pain; after
a time an enlargement can be noticed.
In other cases the enlargement is noticed without having is noticed, it is doubtful whether treatment should be given. Friction with the hand or blistering may hasten absorption, but as a rule natural absorption will result until the visible enlargement disappears. When lameness is present.
treatment should be given. This consists in treatment should be given. This consists in
locating the seat of the trouble, then applying ither hot or cold water to the part for a a few days
ither to allay the inflammation, then, if lameness has not
disappeared a blister should be anplied In disappeared, a blister should be applied. In
some cases it is necessary to five and blister but Some cases it is necessary to fire and blister, but
this should be done only by a veerermarian RINGBONES.-Ringbiones appear in it either Yore or hind limbs, and are caused by inflamma-
tion being set up (usually by concusston possibly tion being set up (usually by concusston, possibly
ly direct injury) in the cancellated tissue of the wone ; this extends and involves the compact tissue; as a result an exudate is thrown out; this
becomes ossified, forming what becomes ossified, forming what is called an ex-
ostosis ( a bony enlargement).
Ringbones appear ostosis (a bony enlargement). Ringbones anpear
i.ctween the fetlock joint and the hoot. If affecting the shaft of a bone only, not involving either
the pastern or the coffln joint. they are called the pastern or the cofflin joint, they are called
"false ringbone," and do not cause lameness. If
 ringbone," and if the comfin joint be affected, it is
known as .'Tow ringbone." In either case lame known as "Iow ringbone," In either case ramme
ness will be more or less severe. In many cases the exostosis (enlargement) is noticed only on one
or both sides of the limb; this is sometimes Noken of as "sidebone," but it is a misnomer, as sidebone is a disease of another character and
involving different structures. Whether the dispase under discussion appears as a prominence of the limb, it is properly known as ringbone. The lameness caused by ringbone is often noticed
l.afore any enlargement is apparent, and this is lufore any enlargement is apparent, and this is
especially the case in low ringbone. The lame-
ness is often irregular and hard to locate; the
horse will go quite lame occasionally, then go horse will go quite lame occasionally, then go
sound for a variable distance, then lame again, and so on. An examination of the limb and foot may fail to detect tenderness or heat, after a time the lameness becomes constant, and an
enlargement can be noticed. TREATMENT.-From the nature of the dis-


restore the parts to their normal condition, and
we treat with the idea of anchylosis; when this is completed inf process tion coases, and the horse will not nod inflamman any
more, lameness disappoars, and in many casea more, lameness disappears, and in many cases
even a stifiness will not be noticed. what popular opinion (encouraged by The somelous or ignorant quacks), that the disease is due o what they call a feeder, situated in the fetlock
pad, and that the removal of this feeder will cure pad, and that the removal of this feeder will cure
the disoese, is altogether erroneous and irrational. Operations, consisting in eutting trration-
the skrough
thin at this point and the skin at this point, and removing a small quantity of fat or other substance, are performed
by the advocates of this theory, and as a proof of the correctness of their theory, they will point out horses that they claim were developing ringbone when colts, but the operation arrested the
disease and the animals are now sound. As a disease and the animals are now sound. As a
matter of fact, in these cases there never was dismatter of fact, in these cases there never was dis-
ease of this nature. The fetlock bone terminates inferiorly with a protuberance, especially noticeable at the sides this is especially noticicalte in
colts of the lighter breeds, and is occasionally
is necessary to ifre and blister. In many casps,
lameness will be present for several monthis aftel
the In operation and then disappear as its result. nis soue cases a second firing is necessary, but
this should not be done for eight to ten months after the first. In rare cases this treatment fails, and the only way of curing the lameness is to sever the nerves whith supply the parts; this
operation is called neurotommy It removes sen-
sation, and consenuently the lameness but does sation, and consequently the lameness, , but doen-
not arrest the disease. A horse will sometimes not arrest the disease A horse will sometimes
last for toers arter this operation, and will some-
times fail from different causes in a few monthe: hence, it is not wise to operate unless he be al most useless. Neither firing or neurotomy shopld be performed by any persom or nut an expert. shoup."

Saddle Horses at the Fairs.
To the Eattor "Marmert Advoouto it;
Sir, -A An atraction with the merit of being
 standpoint is one that our fair associations can
well aford to foster and dovelop. Such an
attraction well afirord to foster and develop. Such an
attraction is to be found in the class for saddlo horses, providing the yud inging is done for saddo
petent man. The Horse show at Dublin, Ire and, is aniost eeceluesvely a saddio horse show and nowhere is the patronage better, the interest foreigner parts with his gold for an equino
beauty. beaty.
Buyers of saddle horses tell us there is a great
dearth of the right article, and that the horses of the saddle type obtainable are tho fow spoiled in the breaking. The horseemanslipip calle for to so break or train a horse that he will
possess a good mouth and manners is of no mean
order possess a good mouth and manners is of no mean
order, and if any encouragement to the young men can be given by fair assoclations to acquire such knowledge, it should be done.
The man who drives is never nor as enthusiastic over his never the horseman
ides, and from the esthetic porgo he who ider is supario the esthetic point of view, the on why the farm boy shouid There be a good horseman and able to make a presentable ap accomplished Young people are scarco; the incon-
tive to excel is lacking. The ability to handio ehorse at the difierent gaits is worth possessing superiority of one contestant over anothate the If desired the contests in the seddle courd bo bronid ened out to include jumping, although tho brulk of the money used in this clasg should be used to
encourage the breeding and training of the right type of saddle horse, to the acquisisition by both boy and man of a good seat, and to the proper
bitting and mannering of the animal phown.
UTje
 Under the present system, horeamanstp btas tair
is become posid art, and along these limes thero is considerable scope for an asocialion to do
work that will bring results, and the fair board work that will bring results, and the fair board
that cannot produce such has no reason for its lurther existence.
The adoption of the gymkhana will be posesible
${ }^{\text {it }}$ encouragenenit bo given the boys to to
become expert r iters. Boys ar re
wanted
nowadays, and must be secured of agricultural enterprises, and ${ }^{\text {wn }}$ regard ord to disoregard the oppore
tunity aftorded ous
bv the saddle hores by the saddle horse
class.
no success need be expected unless a juige thor-
oughty competent in
his line is engaged
and given and
hand.
hiven
Fair
assol
fase ciations might wwil
afford to o nsult the experts in this
the as to the ar-
line as line as to the ar-
rangement of their rangement of their
prize lists to carry
out the ideas advanced.
We are continuWe are continu-
ally told
not to rimy horsses,

## christian de wet. <br> of other misits <br> Thoroughbred yearling stallion. Winner at Dablin (Ireland) Horse Show, 1902

mistaken for ringbone. The owner of a colt in ings will do. Why not accustom the the misfit
which this characteristic told that his colt has ringbone, but if the feeder so-called, if we have nothing better, to work that be removed the disease will disappear, will occa- who can successfully bit and mouth a horee. Tor
sionally consent to have the slonally consent to have the operation performed.
No disease having been present, none will appear and the operator will claim that he has effected a cure. In a young animal repated blistering saddle purposes has learned the fundamentals of
horse education, and is far in advance of the ordinary everyday user of horses. With the de velopment of the saddle horse class, prizes should
be offered for lady riders, the cross seat, as the
safest and sanest, being preferred. Too many Great Britain. The up-to-date agriculturist is of the directors of fairs are starving for ideas as to how to make their shows at-
tractive, and while in this and perhaps a humble
mood, entrust the amusement mood, entrust the amusement end of their shows
to leech-like organizations, who supply nothing for something. unless it is a bad implesession on The minds of the youthful attendants at the fair its managers to change onlookers $\frac{\text { into strivers }}{\text { for honors, and the board that can keep the }}$ for honors, and the board that can keep the ants as interested contestants in place of mere spect
cess. HORSEMAN.

## Horse Raising

The market to-day requires four distinct kinds horses-heavy draft, carriage, road, saddle ategory, because he is olmoet certoint heads the category, because he is almost certain to be profit able. He will earn his food from the time he is three years old, is less liable to get blemished,
is easily broken and fitted for market. The heavy
horse is a standard article on the horse market. horse is a standard article on the horse market.
This class of horse can be raised for less than This class of horse can be raised for less than
$\$ 100$, and is worth from $\$ 175$ and upward, ac cording to weight and quality. weigh less than 1,600 pounds, and, to bring this price must have good feet. sloping pasterns, clean, legs. He should have a good strong back, with legs. He should have a good strong back, with
well prung ribs. The more action this horse
has the more valuable he is. It is well hown has the more valuable he is. It is well known that like begets like, in horseflesh as in every-
thing else; therefore, unsound mares or sires
should on no account be used. Many sires aro should on no account be used. Many sires are
being used by the farmers that are not fit for ires, and would not make good geldings. FarmThere is an idea that if a horse is imported he is No. 1, but there are imported horses traveling in Canada that in many parts of Scotland would be considered very poor geldings. The next
most important horse is the carriage horse, and partioular notice should be taken as to the fect
of sires and dams. II they of sires and dams. If they do not stand straight on their feet they cannot be expected to go
straight. Action is the valuable qualification in a carriage horse. They must go straight. horse that will go straight is worth $\$ 300$; if he ither paddles or rolls, the same animal would be orth only $\$ 125$. Sires to get this class of Hackney or Coach, if of the proper type. A hot ery-tempered dam should not be mated orse of like temperament

## STOCK

Veterinary Progress in Canada
Happily for Canadian live-stock interests, both
home and abroad, the lethargy which seemed at home and abroad, the lethargy which seemed
to beset the profession, and its particular branch in the department of agriculture, bids fair soon the Chief Veterinary Inspectorship for Canada has, in the short period of his officeholding, been very materially. Two illustrations of such progress are afforded by the constructing and equipping of a pathological laboratory at the Central Experimental Farm, for the purpose of investigat-
ing animal discases and the formulating of mething animal discases and the formulating of meththe various seruins and vaccines for blackleg, glanders and tuberculosis. The direction of an
investigation into the cause of swamp-fever a disease more costly to Canadian horse owners than ease more costly to Canadian horse owners than
any other, is another proof of the indefatigability
of the present chief of the veterinary branch of of the present chief of the veterinary branch
the Department of Agriculture. the Department of Agriculture
ternational professional body, the American Vet erinary Medical Association, made up of the brightest minds and most expert surgeons in the
animal world on this continent, will convene this year of 1903 at Ottawa, September 1st to 4th. The advertising benefits to Canada of such a visitation from so many veterinarians from south the resultant benefit to the profession north of the resultant benefit to the profession north o
the boundary. In the past, the veterinary pro
fession in Canada, although possessing some men fession in Canada, although possessing some men
of undoubted ability and education, has been of undoubted ability and education, has been
pointed at with semi-derision, for whioh meny
reasons have been ascribed. The lack of primary reasons have beem ascribed. The lack of primary
education of manv veterinarians, the non-demand education of many veterinarians, the non-demand
of an adequate general education before proceed
ing ing to professional studies; the short time in ma, and the little scientific knowledge necessary to get such, all tended to lower the profession in
the eyes of a non-discriminating public, who to the eyes of a non-discriminating public, who to
day too often place the holder of a parchment to
practice the art and science of veterinary medicine practice the art and science of veterinary medicine
and surgery on a plane with the farrier and cow-
leech of a
vitally concerned in the progress of the veter nary profession, and has much to gain from the
results of painstaking scientitic investigation. The great increase in the money value of live stock necessitates the protection of that stock from the various and numerous contagious diseases with Which it!may be afflicted. Such being the case, an live-stock interests are being well safeguarded and remunerative trade preserved. Every encouragenent, therefore, should be given to the chief offitect Canadian flocks and herds and to raise the standard of the profession. NOMAD.

Early Shearing of Short-wooled Sheep. When we first started to breed Shropshires, it ing their fleeces until early sumer, after they had gone to the fields. When we began thowint a couple of years later, stubble shearing was the rule; that is to say, in taking off the fleece an inch or so of the fleece was left on to protect the sheep, as the practice was, and still is, to shear how sheep eariter, when the weather was cold Neither the late shearing nor the stubble cutting proved satisfactory. In the irst case, the shee iten suffered from heat, frequently portions
 would so irritate the ekin as to cense a loose ing of the wool, and lead the suffering animals to rub and bite, thereby scattering parts of their neeces here and there and everywhere but wher it should be. Besides, neither ewes or lambs anineared to tarive as they should. In the case of stubble shearing, we found in that way to look or handlo wit sheep shor ring. Thy would have, do what we could, cotted, dull or felted-like appearance. When han died, it failed to have that soft, springy touch
which all admire tion is part of the explanation why accommoda stated ; want of knowledge was the other part but experience at home and abroad taught us bet ter ways as the years rolled by
skin as possible, choosing a daep as close to the is mild and promises to continue so for a time. Occasionally, but rarely, we blanket them, should an unexpected cold snap set in. If sheep, in good
condition are well housed, where they are dry free from drafts, the loss of fleece is not much felt, unless the weather is severely cold. pletely new growth of fleere furnishes the prope
foundation for the she on in securing a coat pleasing to here and skil In early shearing of ewes after lambing, there is some danger in doing it too soon after lambing,
or too early, if at all exposed to cold or too early, if at all exposed to cold winds or
drafts. Exposing them to cold then tends danger of garget and a shrinkage of milk, which is apt to prove hurtitul to the young suchlings Usually, in early April. we get a succession o
luright, balmy days, with litule or nights; then is the time to strip them of al thein
coats. When kept after in warm quarters and gradually exposed to the outside air, there i to do so much better, and if ticks are found the ewes it is an easy task to have a supply of
strong dip solution at hand to brush over strong dip solution at hand to brush orer the
skin, thereby readily destroving the hurtiul insects and so prevent their infesting the lambs.
We do not care to she can be readily care to shoidedear in-lamb ewes, if it
them them go to grass with their coats on, we lay
them gently and carefully on the side, and whill One person holds them down, another removes thin flece as rapidly as possible, Another henefit rev
sulting from early shearing of flock before to grass is the prevention or any accumulat tom
their droppings behind which feed beomer so adhesive as to become a nuisance In May we dip all the flock-lambs and all any ticks on ewes which mav siun and kills of brush at shearing time Having practiced carly
shearing of all the fock for ten var. wo. would not think of returning to the old wi. Wiesent practice eives more comfort to the aniNwner every day of the week. But what of
 late shearing made us, we would not dream of "penny "wise, pound foolish", polticy, "ny "pos, Wer and over auain by the better condition of
ards permitted in century ngo. The low stand-
our case whatia undoubtedly weakened

## Proiltable Bacon Production.

enclose you photo of my herd of Chester White hogs, showing them just as I fed them o clover and grain. The grain is fed on the ground just as in the picture you see them feeding, and as they require

I have now been in the hog business seven years, and after seven years' experience, I have come to the conclusion that in order to mak money out of the hog busine five points, viz
hog.
2nd.-The time you start the hog.
3rd.- The time you sell the hog.
4th.-The weight you make the hog.
5th.-How you produce it
SELECTION OF THE HOG.-After trying all kinds of hogs on clover and grass, I found in my experience there was none so good for that pur grow him to be a select bacon hog, if you sell when he is right. My experience is : There more in feeding for a good bacon hog than ther
is in breeding, because you can spoil the bes bacon hog on earth by feeding I sold to George Matthews Co., of Hull, one
hundred hogs out of the field, shown in the graph, in one car. There were one hundred select hogs in the car, and I received $\$ 7.25$ per cwt live weight. This was the first car of select hogs
that eiver went into their yard from one man Four weeks later, out of the same herd ther Four weeks later, out of the same herd, there
were 25 more selects and 25 light, making 150
hogs in the one field, all bred by myseif and hogs in the one field, all bred by myseif and started inside of five days.
Oy sow wice a my sows twice a year; first litter comes in
March. As they are all registered hogs I sell them for breeding purposes. I select from one sow to another, so as to ship not akin to each Three day; afterwards my sows are all mated again for my own field hogs; they come in August or first of September.
This starts the hog for the
in the year Having no use highest pork days season of the year, I leave the young pigs on the sows for eight weeks, leaving me nine or ten nonths to grow my bacon hog. It is an easy
matter to grow a Chester white hog in good matter to grow a Chester White hog in good
order from 180 to 190 pounds in nine months I commence to feed roots as soon as I take the pigs off the sow, and all winter, and as soon as the clover is about three inches high, I ring
them and put them out in the lield, where they get. one feed a day of dry grain, barley or mixed corn and barley fed on the ground. Barley and
good sweet clover will make bacon as sweet as a good sweet clover will make bacon as sweet as a
chicken, and if you think you require a little more fat after feeding one feed a day up to July, just give the Chester White the second feed a day,
and in two wheks you have a select hog which ommands the highest price in the market.

Shearing Long-wool Sheep Early
Many years' experience in breeding and caring Cotswolds has fully convinced ine that stearperious vear in March or April is a profitable he sheep and the in to the health and thrift of in good condition, and thock. If the sheep are mild days. they take no harm, even if a cold wave omes soon after, provided they have a moderfor a few days. I do not advise this early shearhy of ewes due to produce lambs in those months
nut such as are not due to lamb till May may afely be shom in Narch or April, and it has ween our rule for many years to have all the flock cheared and the lambs and ewes dipped in a solumert ticks before the flock goes out to pa hearing are that the The advantages of early wool fastor when the sheep thrive better and gro from which they womld otherwise suffer in warm
spring days, the work is finished before the busy me of sping seediny commences: the sheep re alle to Watchinge as in their feeces they are The diffectoce in the market price of washed and The weight of tho latherl, if not quite, made up in The weight of tha lation, while there is always
some risk to the lawth of men and sheep in
washing the wool on the sheen's backs. Anotber washing tho. wool ow the sheen's backs. Another
ereat alloantage is that sheep shorn early will ereat advantage is that sheep shorn early will
have longer fleces and will look larger in the have longer fleeces and will look larger in the
fall. the season when they are shown at the
fairs, and most

## MARCH 16, 1903

## THE FARMER'S ADVOCATE.

Our Scotilsh Tetter.
Stock-rasising is the sheet-anchor of the British
This fact has been forcibly broupht farmer. This fact has been forcibly brought great spring bull sales are past nearly ovier, and The
all hands there has been seen a distinct n' hands there has been seen a distinct revival
the dermand for hightlass breeding stock in the remand for high-class breding stock.
Along with the sales for stock from difierent
herds, a splendid sale of Shorthorns Along with the sales for stock from difierent
herrs, a splentid sale of Shorthorns frome the
Royal herds has been held at Windsor. High Royal herds has been held at Windsor.
averages have been the rule all round.
High
This averages have been the rule all round.
has been brought about by various causes. epening of the Argentine ports has causces. Thed the
demand for Shorthorns, and some of the hivh demand for Shorthorns, and some of the highestpriced animuls have been bought for Ruenos
Ayres. The development of Trish agriculture has also contributed to the result. Of 270 Shorthorn bulls sold at the Perth sale, no feewer than
80 were secured by buyers acting under the super80 were secured by buyers acting, under tere super-
vision and receiving the grants of the Thish Board vision and receiving the grants of the Irish Board
of Agriculture. It is more difficult to account or the phenomenal advance in Aberdeen-Angus values. It was the supreme demand for Trojan-
Ericas which sent up the erue Ericas which sent up the value of the blackskins
at Perth until the unprecedented figure of 480 gs., or £520, was realized for a yearling bull. There is more of a pedigree craze aloout the A-A.
boom than about the Shorthorn advance. Men Soom than about the Shorthorn advance. Men
are keen on the Erices, but curiousl enough, it are keen on the Ericas, but curiously enough, it
is only one line of Ericas that makes fancy or
隹 phenomenal figures. There is a big drope from
the high-water mark reached by Troian-Fricicas to the high-water mark reached by Trojan-Ericas to
the best position filled even by the Kildomanthe best position filled even by the Kildohan-
Ericas. We believe hoth bulls were in use at Ericas. We believe hoth bulls were in use at
Ballindalloch, and if anything that Kildonan was to appearance the better animal. Howevor,
blood tells. The same feature wns sent in the hlood tells. The same feature was seen in the
Highland cattle sale at Oban. The picturesqe thighand catte sale at oban, The picturesque than the Shorthorns or Angus, but they can live
where the thinner-skinned breeds would find it hard to pick up a living, Galloways were sold
in large numbers at Carlisle and Castle Douglas in large numbers at Carlisle and Castle Douglas,
but there were rather many inferior bulls shown ymongst them. This reduced the averages, al-
though for good fleshy bulls prices were all that need be desired
Looking at matters a little more in detail, we 532 15s. 7 d . . By far the best return was made hy the celebrated Ballindalloch herd, the home of
the Ericas. Seven hulls from this, rewe the Ericas. Seven hulls from this renowned cen-
ter made the astonishing figure of $£ 229$ 1s. Od. each, the highest, as we have said, being 480 gs ., at which figure the manager for the Earl of Rose-
bery. K. G. secured the first-prize yearling in the lery, K.G., secured the first-prize yearling in the older section. The entries are so numerous at
Perth that the yearling bulls are divided into two classes. The sire of this great youngster
was the fine bull Delamere, bred by Mr. Patrick Chalmers, of Aldbar, Brechin, who owns one of guished career in the hands of Mr. Alex. McIfaren, Auchnaguie, Kingussie. This fine bull
was nurchased by Sir George Macrherson, Bart was purchased by Sir George Macpherson, Bart, and for two seasons he has headed his famous
herd. The Perth Shorthorn sale took place this week, when 272 young bulls made the fine average of $£ 3,1 \mathrm{~s}$. 9 d ., an advance of $£ 417 \mathrm{~s}$. 5 d . on last year's average. The highest price was 261
rs, or $£ 273$, paid by Mr. Dan Mactennan the Ms or ${ }^{\text {or }} 273$, paid by Mr. Dan. MacLennan, the
well-known South American exporter, for the first in the older class of yearlings. This young-
ster was bred by Mr. W. A. Dron, Crieffyechter. Crieff. The Shorthorns, it will thus be seen, though the latter had the hest price for one. The Shorthorn sale was the leveller of the two. The
Inverness sale was held between the two perth
making on everage of $£ 32$ 8s, Ad His Majesty's holds on its way, and nothing better can be de sale at Windsor was held on the day following sired in the way of beef than a piece of a prime concourse of visitors same. it drew an immense Galloway. In the N.-W.T. the Gight almost be billowhy and tho
said, all parts of the Empire should have a lok-in. Why do not mald all parts of the Empire. Sixty-ight ani- good men take up these ideal breads ior a hard of 8822 s gd. apiece. The highest individual The Galloway has many good friends like Mr. price was 800 gs., or 8840 , paid by Mr. Miller, David McCrea, at Guelph, and Mr. Martin, at trom Buenos Ayres, for the celebrated champion Winipeg, but there's room for many more, and
bull, lloyal Duke. This great specimen was bred the Highlander deserves the care and attention of
the


OBItsTRER WHITE HOQS.
Bred and ted by Robet Clarke, Ottawa
by Her late Majesty at Windsor, where he was a beautififul mossy coat in mesty fled animal, with which includes the championships of the a netional shows of England, Scotland, and Ireland, he
crosses the South Atlantic with a crosses The nouth Atlantic with a great reputa-
tion. The next highest price was $\& 15(300$ gs. $)$, paid by Mr. J. Douglas Fletcher, of Rosehaugh, 78423 Rhire, for the two-year-old, Body Guard a littie light in color. He was bured, at at Sand
He ringham. The highest price for a female was 210 gg. or $£ 22010 \mathrm{~s}$, at which figure Lord
Calthorpe secured the roan two-year-old heifer, Calthorpe secured the roan two-year-old heifor
Sweetheart, a daughter of Royal Duke.
A redroan three-year-old, named Circe, got by the
Scots bull, Pride of Fame 73238, went to Sir Alex. Henderson, Bart., Buscot, at 200 gs., or $\mathbf{c} 210$. This is a very fine specimen of the wide,
deeply-fleshed Scots Shorthorn.
Twenty
 which is surely good enough even for a Royal
sale.
Breoders of Highland and Galloway cattle have
 hulls were sold at Oban, and made an average of C28 7s. 10d., which was thought quite good. The
highest figure was \&121, paid by Mr. J. Douglas Fletcher, of Rosehaugh, for the first-prize two-year-old. Other two bulls made \& 1110 each, and
several made useful prices, but no others crossed several made useful prices, but no others crossed
the three figures the three figures. The Galloways move on a
steadier level, without going so very high, nor vet dipping very low. More than is the case with the more favored breeds, Galloway hull fanciers have not yet learned to select close enough
and to use the knife freely. Still, the breed
these Northwestern parts bese Nortace for the
be thire show this weel
she was quite a success. oying a flood-tidess. The breed taken up, as were Bates cattole in it has beon leaders of fashion and men of wealth. The King
is an enthusiastic breeder, and won the pold ming this week as breeder of the champion mere at the at the game, and many others of great woalth prices goo high, and many the thers of great wealth
gets a look-in. gets a look-in. This year the stallion champlonship went to lost year's winner, Messrs. Forthaw
$\&$ Sons' stroxton Tom. This firm's place is ${ }^{\&}$ Sons' Stroxton Tom. This frm's place is at taking four first, prizes for horses four yeara ol and up to eleven. Mr. Forshaw had four son in the ring, leading as many frst prize horses
for the final. Lord Hothschild had not only the champion and reserve champion female, but he had alson the funior champion stallion in Birdsal
 on Tom for the final. The noticeable feature of number of stallions four years old and upwarasis
which survived the "vetting test." It is ob which survived the "vetthg test.". It is ob
vious that the Shire has still a deal of leeway to vous that the Shire has sti.
make up in this particoular.
In the numerous field trials, to test variatie of oats, splendid results have been got with Canadian oat called the Banner. Principal Wright is conducting elaborate experiments in the West of Scotland, and the best results in grain have been got with the Banner. Curiously enough, the favorite Scots varioties, known as
Sandy and Potato oats, have secured a medlum


LIABD OF CRAIGIE [3378] (11084).
PIONEER [3374] (11131)
LAVENDER (3378] (11394).

[^0]position alike for grain and straw. They ere than those above the average, alike in respect of grain and straw. They are, in fact, good averfoddering of young cattle, a sort called in the Finlaris." is is great caver in hightyying districts.
Garton Bros, Warrington, Garton Bros., Warrington, have brought out a aew wheat called Rivetts, which has turned out at the Bangor College, in North Wales.
28th Feb., 1903.
SCOTLAND YET."

## Percheron Registry.

To the Editor "Farmer": Advooate "
Sir,--I have noticed in your issue of March
2nd that you give some very erroneous informa2nd that you give some very erroneous informa-
tion to an enquirer. I presume that this was
don Cone under enquirer. I presume that this was done under misrepresentation of the facts, and
that you would gradly make right any uninten-
tional wrong tional wrong you have done the American Perch-
eron Horse Breeders' Association. I send you eron Horse Breeders' Association. I send yo
under separate cover the report of the meeting of under separate cover the report of the meeting o
our association held in this city on February 5 th by which you will see that the old original Amer ican Percheron Horse Breeders' Association (es-
tablished 1876)
was in public meeting supported tabished 1876) was in public meeting supported
by ninety-five per cent. of those engaged in the by ninety-five per cent. of those engaged in the
breeding and importing of Percheron horses in this country. Hecause a few malcontents could
not exercise their desired control over this not exercise their desired control overt this assoo-
ciation, they seceded and took out a charter for ciation, they seceded and took out a charter for
another association, with a name similar to ours. amother association, with a name similar to ours.
That this attempt to steal on the part of this new association has proved anorrive, I call your
attention to the fact that this bastard associaattention to the fact that this bastard associa-
tton has been enjoined and restrained by the thon has been enjoined and restrained by the
courts here from future operation, a copy of Ahich injunction I send you by current mail. The American Percheron Horse Breaders Association
is too large an institution to be controlled by is too large an institution to be controlled by
any one man, or any little coterie of men, and any one man, or any little coterie of men, and
we call your attention to the officers and directorate elected at our last meeting z they all are mee of prominence and probity, which guarantees that the association will be conducted in the in-
terests of all concerned in the importation and breeding of Percheron horses. We also call your
attention chasers of Percheron horses, which notice is rumning in all the prominent stock papers of the United States to-day, with the exception of one,
and this exception is an organ that was atarted and this exception is an organ that was started
by Dumham money and is still under the domination of the Dunham interest. We do not desire to draw you into a controversy among warring horse breeders; you are a public journal sup-
ported by the public, and should render fair play ported by the public, and should renider fair play
to all concerned, and that is why I call your attention to the mistake you have made. Yours truly,
Chicago,
In
S. D. THOMPSON.

Chicago, Ill.
INote. Wh
Secretary.
[Note. Whatever may be the issue of the con-
tention in the Percheron camp, Canadian horse men will in the meantime be governed by the stubSorn fact that the only Percheron breed associa-
tion and register at present recognized by the tion and register at present recognized by the U.
S . Department of Agriculture is the newly organS. Department of Agriculture is the newly organ-
ized one, and that horses for breading purposes going from Canada to the Trited States can only pass the customs free of duty on certificates of

## Cheap Pork.

Hogs are now realizing good prices, and it is
probable that for some time they will be profitable stock to raise. It is when hogs or any
other farm animal is enjoying this distinction being profitable that the greatest leaks in the feeding operations are likely to occur. When live hogs were selling for four cents per pound at
the car, farmers were careful that every pound of gain should be mhde in a short time and at the least outlay of food, and by so doing were able to realize a profit on feeding. Since hogs have
gone up, however, we have become more liberal. nd have often fed longer and heavier than wo lower. It was when the price of the finished been was a avay down that we learned our most varu-
able lessons in feeding. Necessity compelled us to feed economically, and we learned how to do
it. We learned how, by feeding clover, roots and other green foods, to make a p proiter, on furs and cent
pork, and the proper wav to trke the fullest pork, and the proper way to take the fullest ado
vantage of the improved times is to feed our sixvantage of the improved times is to feed our six-
cent hogs just as economically as we did when in selling price means an increase in profit and not simply price means an increase in profit. and
this conease in amount received. this connection clover. rape and roots play an
important part. In laying out the plans for the
season's important part. In laying out the plans for the
season's crops. We cannot urge too strongly the
importance of setting importance of setting arart quod odsized ongly the the
these crops. and nlso a plot for alfalla. The
time cor these crops, and also a plot for alfalfa. The
time for feeding hogs ecxlusively on grain is past;
intensive farming. which means the maximum of

Veterinary Edncetion.

## She Editor "Farmer's Advocato

Sir,-As a graduate of the Ontario Veterinary College, engaged in the profession, Ifeel, perhaps, more interested in the editorials and letters re your valuable paper, and desire in my humble
way to commend the movement way to commend the movement to raise the
standard. The air is full of talk on education On all sides we hear criticisms of our present sys pleasant truth has been told-
When we consider the intimate relation between veterinary science and agriculture, and on the other hand between agriculture and the wealth
of the country, it seems strange that the Gorern ment of Ontario (or I may say Dominion) take no practical interest in the training of such an mportant body of men as her veterinary practicredit that is due the $\mathrm{O} V \mathrm{~V}$. It has done a any work in days gone by, and in some ways is stil doing so. In fact, for a long time its head has veterinary science in this been accomplished for mit that numbers of good men claim the 0 V C. as their alma mater, but the teaching of twenty years ago-yea, ten years ago-will not do for to day. The sciences are making rapid strides, and the graduates. of the last ten years, and even teaching of their alma mater to be what it ahould. It is run as a private institution, just as an individual runs his business, solely for the Students of all kinds, some with fair educalts ? and some with very little, go through the exam ination machine, good, bad, or indifferent, labeled with a diploma to kill or cure, and are know There is a
most as important as the lensth of sturdy is firs of all, a slandard of education upon entering thich should be nothing less than a matriculaeducation is prepared to go on and understond his work, and can grasp and retain a great deal more than one wilh barely sufficient education to read and write. It is a shame to confess that students have gone through without sufficient
education to do credit to a fourth book an ordinary public school. . Second, there is neces sity for a longer period of study and more prac ical work. The idea is absurd of expecting a student to attend college for two sessions of medica, anatomy, physiology, surgery, materia and treatment, bacteriology, chemistry, histology,
biology biology of horse, cow, sheep, pis, dog, and to
pass a thorough examination and obtoin and pass a thorough examination and obtain a diplo
raa which qualifies him as competent to as a veterinary surgeon. especially if his practimi nary education is as limited as it it is in the major-
ity of cases ity of cases. Often the veterinary profession is
not one of choice it is accept him, and how can such a profusit would attain him, and how can such a profession cever
at the present conditions exist?
remedy this some
(Never.) remedy this some sweeping changes are essential,
and first of all the matriculation entrance This might mean a temporary loss in entrance. This college (but who can tell how much in the pockets of the stock breeder), and the profession would be rid of the constant stream of unoducsated profes-
sionals. I do not wish to infer the sionals. I do not wish to infer that all those
shut out would be drawbacks to the profession but it would contain so many of that sort that they would outweigh the good qualities of the tion of Contemplating these changes, the ques tin of finances will loom up before the college
officials. I have no doubt it would the time affict the revenue, but surely in thirty years of financial success if a period of quiet care upon and 1 am sure there are enough graduatoc in P , tario itself who would willingly assist to shoulder
the deficit, if there should ber endeavor to uplife the profession. Has the Pro-
vincial Government cation? I think it has a serious responsibilityThe O.V.C. is one of the oldest educational insti dey, and the continent, and the foremost in its must bestir itself. be made the first college, but it standard of education and it will be as the Royal the foremost London, England, its doors sought by standard and you raise the class of students the your graduates will be the best. The teachine character and quality of the is judged by the graduates are men thorouchly competes. If her sut a short time until the O.V.C. once more lead the van. Take the requirements of pharmacy, of our
dental colleges, medical colleges, Normal schools in fact, all the educational institutions-look at their rising standards. Has it closed their
doors? No they are crowd



In the interests of the stockmen of the country of our future veterinarians, and of those at pres veterinary educational reform has been too long delayed, and it is one that should commend itsel classes cordial and united support of all these
ROBERT BARNES Middiesex Co., Ont

## Thoughts on the Past and Present.

On looking over the last Christmas number of the "Advocate," which is very fine indeed, I read with great interest Mr. Snell's letter headed, Fifty Years of Fair long. Not because it was all new to me, for 1 , like Mr. Snell, had been attending the old a judge at Toros, having rioquantly acted as other places so 1 , quainted with the achito Province. Mr Sill many pleasant and reftobl calls my mind some of the old exhibitors and spent with days long gone by but it likewise brings in the the fact that nearly all the arbthitors and mind ers of those days have past the whence no traveller ere roturne seen many changes. Not only have thell has hibitors passed away, but those fine targe old that they used to exhibit have likewise cell away, and instead we have a smaller rice passed the, with finer bone, etc., and I always have itoub whether we are making improvement or not These small-boned cattle may make baby-beef, but would not consider them the cattle for the range, and to me they always look as if they had worthy of consideration them. This is a point large frames and lotson. We often see men with large frames and lots of muscle, welghing 220 to
225 pounds, yet active, but framie, should he become, but a man with a small he can ondy waddle, and this is just thot walk, with many present-day cattle. Mr the result likewise, have observed great changes in the must, on which our large exhibitions are in the lines When agricultural exhibitions were first organized. in Canada, they were established organized lines as those in the motherland, where they have always proved a great success. But a faster have of men has got hold of the management here, and have borrowed some of the so-called attractiong from our American cousins, and this, like ther things we have borrowed from them, haid better, in my opinion, have been left south of the national boundary line. Having had occaslo ay in winnipeg during the exhibition, I took ew. he show, to sed if there were anything hen thront early through the main building through the tho other buildings, and lastly and was renine where the grain was exhibited ears age oo concluded tonicipality in the County of Water appointed a Scotchmase a Shorthorn bull ; they nd purchase the animal and a German to select who had a number the late Hon. David Christie dition of hired men. When one of the in the hands out, Mr Christion of the bulls was led pedigree. My friend the Scotch good, long German what he thought of the bull? The Gerpull." In going through the but not much ings, I concluded that the exhibition buildbut not much exhibit. ITere were lots buildings
grain to the cattlo from seeing the breeds found some stables, and among the beet enough to carry their bodies.
went to the shom the statleng but I have sheep pens; good pens, lots of them,
township a better exhibit of the township show a in better exhibit of sheep at a
went to the pin Ontario. From the sheap went to the pigs ; here I Iound a the sheop exhibit
some very good animals. From
to the hor stables horses ; there were From the plgs I went out, so To see a horse you have out of the grounds to the inemain loung, but crossed the
something to mements. something here to interest a farmer. Is always
Mr. Snell
must see sure implements since he began to go to exhibitit in the scythe days we were cuttong the exhibitions. hreshed it with the flail, or inth the cradle, and have the mowing by a horse-power. Now we reaping machine to cut and tio the grain, and a
separator with all the latest imprevements, self
feeder and stacker, all run with a 20 or 80 , feeder and stacker, all run with a 20 or 180 h.-p.
steam engine; but all the other implements are just as much improved
After noon a large number of people were see coming in at the gate of the exhibition grounds but what was very strange to me was they were question came to my mind, "What came the people out for to see ?" Some circus and plat form performance; some horse-racing and some Punch and Judy show. Is it possible that this is what our great agricultural exhibitions have
turned to? When our agricultural exhibitions cease to be educational their usefulness is con The grand object of these exhibitions was to bring the people together so as to compare notes and thereby stir up a healthy spirit of emulation shop and the factory. Will the education taught before the grand-stand cause our sons to become better farmers; will it make them better citizens will it cause them to form a higher conception of
the noble calling of the farmer? Will it make our daughters better housekeepers; will it cavise them to look upon life and its great realities as something worthy of their highest consideration will it fit them better to become the intelligent not paying too dear for what we are receiving for the money spent upon it? But perhaps some one will say there are other parts of the exhibition for those that do not care for the so-called of the people or more that enter the gate never get farther than the neighborhood of the grandstand, it must be evident to every thinking mind that we had better call it by another name. Others may differ with me on some of the pioints difference to me, as I do not pin my faith to anyone's opinion. I have always done a little thinking on my own account, and it is likely that I shall continue to do so as long as I can. Mr.
Snell's letter caused me to do a little thinking pon this subject. JOHN RENTON. Brandon Municipality

In 1902 there were 5,200 steers shipped from the Territories to the British market. There is o reason whatever why the unfinished cattle of block by Manitoba farmers. CHAS W, PETER SON, Regina.

## Malock's Farm。

Among the men of independent means in Canada who have practically manifested their love lustry, live-stock raising, is Sir William Mulock, Canadian, long Postmaster-General. A native nent in public life, he had acquired the beautiful


A domestic pet
212-acre farm near the town of Newmarket, the primitive country schoolhouse in which stood case, was laid country schoolhouse in which, in his hich, in so far as the schools are the educatiJ Anished by his graduation from the Provin homor tersity, of which he had subsequently the its Vice Chancellor to the important position of ful men, his educat. But, as with most successation from the schools, but he has continued to be a student not only in his chosen profession of manship to also in the broader field of statescountrymen, and in the administration of the he has been entrusted of government with which indomitable industry proved so signally success-
ful. And there is, perhaps, no man in public life
in the Dominion te-day to whom the great farming community is looking with greater interest in comparison with the urban a sepulation, as in being made for free rural mail and dennand now
But it is with the farmer more the
But it is with the farmer more than with the are concerned, and as evidence of the interest he has evinced in farming, the writer recalls an address delivered by Mr. Mulock in a farmers' club meeting many years ago, in which, as the result instructively described the operation and advantages of underdraining, illustrating its benefits hy the largely increased yield of crops on his own farm, sufficient in a comparatively short time to repay the outlay, while the benefit is
lasting. Later the feeding of steers for the export trade was successfully of steers for the ex farm, and some three years ago the nucleus of a herd of pure-bred Shorthorn cattle was secured in an importation selected by his neighbor and
friend, Mr. William Linton, Prosident of the Dominion Shorthorn Breeders' Association, whose extended experience and ripe judgment well fits him for the position, and last year a second im-
portation was made for Mulock's farm, portation was made for Mulock's farm, also se
lected by Mr. Linton, of a number of high-clas individuals of excellent breeding and conformetion, some of which are portrayed in the accomThe young raen.
The young roan bull, Patriot (81829) $=45206=$ seen in the foreground, now sit the head of the bred by His Majesty the King, at the Roya Farms at Windsor. He was sired by Prince Victor (73320), who was also sire of the cham-
pion cow Cicely, imported by Mr. Flatt dam Prima Donna, by Christmas Gift, a Royal champion, is of the favorite Cruickshank Broandhooks family, being a direct descendant of Broadhooks 10th, by the great bull, Champion of Bng-
land, so that he is Scotch bred on both sides of his parentage, and in conformation and character he is typical of the cleas of cattle called for by present-day markets and trade.
Rosanna, the red yearling hei

Rosanna, the red yearling heifer on the right, was also bred at the Royti Farms, was sired by which came Royal. Duke, the championship winner at the Royal Agriculturel Socety's Show in Nobleman, and her grandam by the Royal cham-

some of the imported shorthokn catile in the herd of sir william mulock, on his farm in tork county ontario

pion, New Year's Gift. Rosanna is of the blocky low-se
heifer.
The The red heifer, Freda Gwinne, coming two
ears old in May, was bred by Mr. D. Abbott Green, Colchester, Essex, and sired by Lavende Yet (74830), a son of Count Lavender, bred by
Mr. J. Deane Willis. Freda is a show heifer in hier. make-up, having a strong, thickly-fler in
back, deep and well-sprung ribs, smooth, sloping shoulders, full heart
of feminine character.
The rich roan yearling heifer, Carol, was bred by Mr. Robert Hornsby, Hovingham, Yorkshire sired by Jewel Star (76919), a son of the note Newton, and her dam, Familiar Caroline, was b Fitz Windsor ( 68648 ). The charming red and white heifer calf, imported Marina, in the back
ground, who enjoys the first anniversary of he ground, who enjoys the first anniversary of h
birth to-day (March 15th), is a daughter Hovinghem Marmion (81300), her dam being Imp Mariet (Vol. 19), by Royal Verger (71517). She is a model of the best of the breed, and could
hardly be improved upon in her conformation and quality.
e favorite Warlaby Bliss, Flower, Isabella and Medora families, and the Riby Annas, as wel as the April Daisies, an old and highly esteemed
Yorkshire family, are also represented in the herd now numbering some thirty-five head, which, unde the intelligent care of that capable cattleman, Mr ager, fustifles the prediction that the Mulock Farm herd will take a prominent place among the strong Shorthorn herds of Canada.
farm, it must be seen in summer Wm. Mulock's farm, it must be seen in summer, when the spa
ciotss lawns and park, comprising some twent. acres, well planted with English walnut and th principal varieties of our native trees, are seen at their best, and where, as the summer residenc
of Sir William's family, the conditions for heelthy and wholesome country home are ideal That the influence of the example of a well-man its own bounds, is evidenced by the mary taste ful farm homesteads in the surrounding districts while the enterprising and public-spirited propri-
etor has evinced his interest in the welfare of the etor has evinced his interest in the welfare of the
county in numerous ways, such as the fier county in numerous ways, such as the offer of generous prizes annually to the farmers in the
riding planting young orchards of choice varieties of apples and other fruits suitable for the export trade, and in other ways encouraging the impr
ment of the conditions of life on the farm.

## FARM.

## Spring geading.

The fact of the difficuter securing sufficient help on the farm will remind the prudent farmer time during the present mon every hour of the sary preparation for the of spring seeding so that no time need be lost when the conditio may be pushed through with the utinost possibs despatch.
To this end, toced should be all prepared, thoroughly cleaned sand measured; to ensure that sufficient is on hand for the land to be sown sharpened, so as to do the best possible work the horses put in the best condition by generous feeding and ample exercise; the collars and harness repaired, and fitted to the horses that are to wear them, and every precaution taken to avoid
oss of time from the seeding operations. Experience has so plainly taught that, as a rule, the
earliest seeding, when the land is fit, brings by earliest seeding, when the land is fit, brings by
ar the largest yield and the best quality of grain, it should be the aim of all to rush of whark from the start, al ways remembering, ', that what is worth doing, is worth doing well,", and of to skimp or slight the work of preparalion
of the seed-bed is a mistake which will tell against the crop throughout its season of growth ad in the harvest yield.
Not only is early seeding advantageous in re
gard to the grain crop, but wherever clover grown, the seeding, in order to its best results should be early, and the importance of care in thic purchase of clover seed cannot be too strongly
emphasized, as it is certain that noxious weed emphasized, as it is certain that noxious weed vay then by any other. For this reason, be areful to learn from whence the seed has come, deal only with reliable firms, and inspect the seed
y means of a magnifying glass, to be sure that


by prof. r. harcourt, o. A. c., guglph.
In a recent issue of the "Farmer's Advocate,"
Prof. Shutt gave some of the results of his investigations with alfalfa, or lucerne. As this is one of the most usefull plants that may
on the farm, especially where dairying is an imon the farm, especially where dairying is an portant branch, I would like
what has been already given
such it possibly has-no equiling crop, and as suoh it possibly has-no equal among crops that
may be grown in Ontario. It is ready to cut early in the season, and as it grows up again whicle season, it andinues to grow throughout the Whole season, it may be made to supply a conmental feeding. For this purpose, it should be grown near the barn, where it can be got at
handily. It will grow on almost any soil, pro-
vided that the subsoil is fairly open and that vided that the subsoil is fairly open and that
the water table doos not at any period of the the water table doas not at any period of the
year remain near the surface of the ground. It
is naturally a is naturally a very deep-rooted plant, and is thus able to make use of food constituents and mois-
ture that are beyond the reach of other plants. ture that are beyond the reach of other piants.
Because it is so deep-rooted, it is not easily affected by droughts: and, conszquently, can be made to furnish a nutritious
As a soiling crop, it may be pastured with ex-
cellent results, provided it is never eaten off to cellent results, provided it is never eaten off too
closely, and that once eaten off, it is allowed a couple of weeks to grow before turning the stock on again. It makes a very nutritious pasture or hogs. The following figures show how rich the young plants are in protein, and how, as the
plants mature and the amount of fibre increases, the amount of protcin decreases

Sut Time of Cutting.


The aborve


The above shows clearly that as the plant and, therefore, the nutritive value of the plant decreases. The earlier the plant is cut, the richer
the food it makes. When we want the maximur amount of digestible matter per acre, other points have to be considered in deterrnining at what stage of maturity the plant should be cut. This
point will be discussed later.-(Bull. No. 111, 0 .

Because lucerne has such a thick, juicy stem, it is a little hard to cure as hay. To get the best
results from lucerne, it must be cut earlier than results from lucerne, it must be cuc earlier than made in 1897-8 (Bull. 111, O.A.C.), on the composition and digestibility of lucerne, showed clearly that the most nutriment was obtained
when the blossom was just beginning to open, Then the blossom was just beginning

## Second crop, 1887 :

 rst crop, 1 k98,
 econd crop, 1898:
 I was told by an officer who went through the Whole of the late war in South Africa, that the line from lucerne
OMPARISON OF THI: FEFADING YLiE OF
LUCERNE, REI CLOVER, AND TIMOTHY. It is, therefore, interesting to compare the lover and timothy, each crop being cut at tho time when it apparently yields the maximum
amount of digestible matter. The following table ives the percentage composition of the hays all gured to the same per cent. of water, and the digested per ton of the hay fed).
Tercentage Composition of I Red (lowey and Timothy Hay品 Amounter higested
per ton of hay fed w
ontains the most digestible matter ; hut one ton lucerne hay will contain about one-third more ay, and nearly four times as much as a ton of imothy hay. In digestible nitrogen-free extract other two.
When we take into consideration the facts that lucerne once established will remain in the soil onger than clovers; that it will produce more ood per acre than clovers; that it is fully as is relished by stock as much as clovers, we must

## Tree Planting for Fuel.

## (Paper prepared by Rev. J. Fotheringham, Grenfell,

 for the annual meeting of the $W$Tree-planting for other purposes is highly, and farmsteading it has proved valuable. Many our first chickens on the open prairie became blind rom exposure to the sun. When the trees and hawk came, they proved a sure remedy. The dinner when she had trees and shrubs to fly under There she had shade and shelter and good scratching ground. Robins and other birds came to sing among the branches, and prairie chickens
came to supply the pot. Even the Baltimore oriole paid us a visit, and flashed from branch to branch around the house in the early morning ith its animating cry-wake up, wake up, wake up, sirrr. The wind-swept snow was arrested and caune and unroofed buildings elsewhero, but our were safe, while the trees threw the wind upward and over them. The trees, being planted closely and growing without pruning, soon furnished
branches and shoots that became dead, and were branches and shoots that became dead, and were
cut and gathered for summer fuel, and higher
branches were taken for the branches were taken for the same purpose. The
larger trees became capable of supplying sap for larger trees became capable of supplying sap for
syrup and sugar. For beauty, shelter and utility in many ways, the surrounding trees added hun dreds of dollars to the value of the farm.
As to planting for fuel, I do not undertake to speak as an expert, but I venture some sugges-
tions which may be utilized and improved upon. The fuel question has become important, no alone from the coal strike. In almost all the older parts of Ontario, the land of splendid forests has become so denuded that not only has droughts and sudden downpours and floods, but the farmer has to depend mainly upon coal for fuel. In a large part of our Western country our liluff rapidly coming into use. Our soft coal is quickly
cone neal consumed, and the expense $\$ 7.00$ a ton-is serious item, especially to the new settler who
comes in with little else but the spirit of work comes in with little else but the spirit of work The evili can be mitigated by raising wood.
The easiest way is by sowing the seed, and the The easiest way is by sowing the seed, and the
seed I would principally recommend is the native maple. For speedy results young trees may be help to arrest snow and shelter the small seed lings the first year or two. I think it very advis corn or something else, to be left to glather snow about the maple plants. The plants quite exposed, say on rising ground, are very apt to be year old, they are not so hardy as when la:ger.
The first step is to select the land for planting of course, there should be a good shelter around the buildings. Elsewhere on the farm may be
selected more, in blocks selected more, in blocks or strips, according to various ends to be gained. The land should be cultivated from grass and weeds, and well pulverived. The rows may be fur feet apart, allowing
cultivation by horse. Little furrows may be opened by hand garden plow, and the soed sown at once while the carth is wet. I have taken a the fruit-can, without top and bottom, fastened thereto a handle some three feet long, and made holes of proper size to let out, the seed. Filling this seeder, you can walk along the furrow and
thake in the seed in any desired quantity. After the sewer comes the coverer, with a wooden hand
rake. hack down. and draws the yet damp ner the seed. gives it a pack, and damp eart at a good rate, making a pack, and so wabl The earlier the seed is sown. the better, if you only escape
the late frosts, which would kill the little plants Cultivation should he kept up till the trees can
take care of thenselves, to keep down weeds and kike care of theluselves, to keep down weeds and
kep thand mollow. so preventing the escape ure. If the plants come un too thick, thin out while small. lint keep them pretty close, fo
will do for all the lighter cooking, and, in win
ter, for kindling coal fires. As time goes on you ter, for kindling coal fires. As time goes on you
will have them larger till you leave them will have them iarger By and by you may cur
feet apart in the row. Dy and
out alternate rows and have good-sized firevood feet apart in the row. hy and by you may cut
out alternate rows and have good-sized firewvod
You can cultivate these vacant rows and replant. You can cultivate these vacant rows and replant and the young trees will stretch up all the no for having large trees near them. haps your children after you. This is not all co jecture, for 1 have seen something of what 1 say Along with maple you may raise native ash, und
provide excellent timber for handles and other uses. You may get cottonwood and Russian poplar to grow faster than maple, but let some
one more experienced advise you as to their one mor
utility.

## History Repeats Itself.

to the Editor " Farmer's Advocate "
Sir,-You will have heard that history repeats itself. Away back in 1898, newspaper files re cord the visit of delegations to Ottawa to insis on the restoration of the duties on binder twine therwise liquidation awaited the manufacturer Another view provailed, and the duty was not re and since that time I believe that six new facto fies have gone into beration, viz those at Walkerton, Brantford, Brandon, Peterboro, Chat ham, and the Richelieu Co., while those previous $y$ engaged in the enterprise continue doing busihess at the old stand. It is no secret that very andsome dividends have been declared by these ompanies. But what do we find? The same influences that waxed eloquent in the past for a reimposition of duty are again ahroad in the and. Statements are being scattered broadcast, uch as this, that binder twine is manufactured chiefly from Manilla hibre, on which there is an export duty of three eighths of a cent coming to acturer But what is the fact? Why, that from a to 90 per cent of the binider twine made and ald in Canada and the United States is made rom Sisal fibre, on which there is no duty. It salso declared that over ninety per cent. of the wine made in the U. S. is manufactured by the arge implement manufacturers. Now, outside of wo concerns of that class, there are some ten or welve makers of twine in the States, and it is estimated that they make from forty to fifty per ent. of the twine used in the States. They assert Canade there is a duty of forty-five per cent on Canada, there is a duty of forty-five per cent. on here is no duty on Sisal or twine running 600 eet to the pound going into the states from amada; there is a duty of forty-five per cent. on wine rumning 650 feet to the pound, but there is anadian $650-\mathrm{ft}$. twine is of a grade that would ot be sold in the States, even ir there were no Sisal fibre is grown in Mexico,
The Canadian maker can uy it as cheaply as the American, and as fully ighty-five to ninety per cent. of all binder twine is made from Sisal tibre, and as Sisal twines are admitted to the States duty free, what advantage has the American manufacturer over the cana-
lian? Then the American harvest is alleged to earlier than the Canadian, and the American wakers will slaughter their surplus twine in Canada. The Ontario and Quebec harvest is at the
same time as the Central West, and Manitoba mly a little later than in Minnesota and North akota. The contention that hemp for twine making has to be bought in A,ugust and Septem-
jer for the following season's harvest is also wide of the mark. Sisal being raised in Mexico, a vessel will make the trip in about eight days. it is cheering to the farmer to be assured by
those who are urging the duty that there is no hose who are urging the duty that there is no
chance of a combine, but if 1 am not mistaken the moving spirits in this agitation are those who formed a combination in the old days, buynment to give way on this point how soon would it be till the fence-wire makers would have to. He met in the sanie way? Everybody who
understands the Canadian situation knows that understands the Canadian situation knows that
Whe West would not stand it. Our manufacturers we flourishing, the country is going ahead; betf.r let well enough alone, gentlemen, and con-
inne to give the fariner a chance. AGRI.

We Canadians should feel proud that we have
Allished within our borders such a strictly first Whlished within our borders such a strictly firstuss,." "It is-derertainly a "top notcher." Norfoik Co., Ont, Feb. 28th, 1903.

Tillage and Seeding. The bluebirds, robins and graybirds have come, it mat it is likely that March, which has so far shown only the lamb-like character, may before long show us that of the lion, but after last year,
when the whole month was so exceedingly fine we should not be surprised if spring should come

F. W. Brown, Portagie La Prairis.
President of Sheop and Swine Breeders' Association.
very soon. Are we ready for it? Are the har-
rows sharp, the cultivator in good shape, the ows sharp, the cultivator in good shape, the rops we are going to sow in the different fields? How about seed grain? If we sow our own it should be cleaned up; if we are going to buy, we is sometimes very hard to get at the last minute. it is a great comfort and saves time and money to have all preparations made in good season. body can work up the land and get the anysown in good order: when, for instance grain weather before seeding has been dry, with frosty nights. The land then is in better condition
than we could bring it to by any manipulation than we could bring it to by any manipulation
of ours. Frequently, however, after the frost is out of the ground, rains keep coming on so that operations are seriously delayed, and the land gets so compacted that it is hard to work when
it does dry. It is in such seasons that the farmer whose fields are drained gets the start of the other fellow. What are naturally the wettest parts of the fild get dry the soonest, and at the mant opportunity he gets to work, while the other land gets fairly dry, but the higher ground is too


DIVIDEND (107aO).


seed sown with spring grain to catch, attribute his subcess to sowing early, and to having, is possible, all the work, including rolling, done in
one day. one day. He claims that thus land is mande finest with a given amount of work, and that
grass seeds are at once brought into contact with moist earth and get, what is so important, an early start.
This seas
of the year, and to a farmer is really the opening readers a pleasant seedtime and bountiful harvest.

## A Successful Cement Silo.

Mr. Harry Smith, the Shorthorn breeder, of Huron Co., Ont., gives us his experience with a round cement silo built last year. The dimensions were $12 \times 30$ feet, walls about eight or nine inches Portland the bottom and six inches at the top was used, and plenty of stones good gravel 9 wire was laid in also, with every raise of the wooden crib. It was finished about six weeks before being filled, and in about three or four weeks after the walls were constructed they were made a little stronger at the bottom ; great care was taken with the foundation. The ensilage ept perfectly, and there was no sign of give to the walls. If the above conditions are complied hence and superiority of cement silos. The pereviously he had a wooden silo for many years. He grows the Leaming corn for ensilage, and cuts it a day
or so before filling to wilt. Never heard of the uice of the ensilage softening the bottom of ement silo wells. The work of construction vas done by Mr. Geo. McKay, of Kippen, Ont.

## Hair as a Fertilizer

Regarding the case of very marked results in potato growing through applications of human cate,", Prof. Shutt, of the Central Experimental
Farm, writes as follows: Though hair may
(containing about $\mathbf{1 7 \%}$ ), its value as a fertil jen (containing about $17 \%$ ), its value as a fertil-
izer is otromely low, from the fact that it very strongly resists decay in the soil. Nitrogen, as
it exists in organic compounds in hair horn and allied substances, is inert and unassimilable by plants, and is so slowly converted into available plant food in the soil that it is very doubtful if any respopse would be observable from the direct
application of these materials to the land previous treatuant writh acid, or by active fermentation, astin the manure pile, the nitrogen in hair. however, inay be in a large measure rendered Chemist, Experiñental Farmank T. SHUTT.

$$
\cdots \quad \because \quad \because \quad<\quad
$$



## High-class Farmhouse

 I submit a sketch of farmhouse built on myfarm during 1902, at a cost of $\$ 4,500$. I had in contemplation the purchase of a farm for four or five years, and during that time drew many plans of house, which were in turn submitted to the criticisms and suggestions, my wife being principally consulted, as the house is the woman's particular field of action, and should be made as nearly as possible to meet her requirements.
There were two important points ever in mind when discussing the plans. Her first was to have as much sunlight as possible in every room, and the second was to make it as con-
venient as possible. I was careful on my part venient as possible. I was careful on my part
to make it comfortable. To secure plenty of sunlight, the house has a large south exposure; all the rooms on the first floor, except my office and the pantry, having south windows, and one only, are deprived of south windows. The main partitions in the cellar are built of hard brick, eight inches thick, the outside cellar walls being of stone, 22 inches thick. The cellar had a clined to be damp, so it was cemented and prop erly drained.
The house is frame, sheeted inside and out ing paper was used between sheeting and weather boarding, and between sheeting and plaster. Furring strips were used to lath on, thus giving double air chamber for protection against both
heat and cold. The floors in both flats are
and double, with building paper betwean them; the
first, or under-floor in each flat, being matched first, or under-floor in each flat, being matched
pine, the upper floors being selected red birch, except the kitchen and pantry, which are maple.
The finish or trim on the parlor, living-room


Hor Fion Rer
office, stairway and bathroom is selected oil, each coat being rubbed with pumice stone and same way floors are natural finish, rubbed in rooms are trimmed in pine, pantry, hall and bed try are stained to match the balance of the floonand ceiling and bedrooms are painted. The walls and ceiling
The walls of cel foor, and floor is laid in mortar. Betwe first side and outside sheeting it is filled in six inches high with brick and mortar. The walls of cellar are plastered and white coated sash, except the south bedroom windows storm are single. All doors opening outside have storm doors. The attic is floored with matched pine. The roof is covered with British Columbia has two floors, for use of both flats. $8 \times 20$ feet, porch, $6 \times 26$, is roofed.
The house is supplied with soft water The house is supplied with soft water from a
300-barrel cistern, which is forced into the house by a windmill, the tank being in the loft over the cistern. Hard water is furnished to the the house from a pump on the west porch. There is
hot and cold water in the laundry, and on the
first and water.
The parlor has a handsome red brick mant with mirror, and is arranged with coal grate. heated boom hot water coil, and is boodhouse, toreroom and to shed soiled garments and boot wood is used, the room maked workshop serve


Tue Cteratoin
There are three chimneys, all built from founda lar. up, and have soot boxes for cleaning in cel pleted, including cistern, well, windmill and tank and all decorations, painting, etc. The size is $26 \times 54 \mathrm{ft}$. 8 inches, and $18 \times 36 \mathrm{ft}$. The first floor
ceiling is 9 ft .8 inches high, the second 9 ft Since we have occupied the house , of our family has sighed because this, that or the other thing was not made different, each be ing satisfied that we have a comfortable, co
venient farmhome, full of light and sumshine I shall be much pleased should any intendin builder of a farmhouse glean any ideas from our plans, which are the result of much careful consideration and labor on our part, and much ex of the readers of your valuable part.
Frotenac Co., Ont.

## Farm Help from England.

o the Editor "Farmer's Advocate "
Sir,-I have read with interest in your Feb 2nd issue the article by Mr, W. G. Cowle on "Th years in the Province of Ontarto, understand the above title. Since coming to the Old Land, there is one thing that has back prominently to my notice, that is "the "yer crowding of the labor market here," The papars are full of advertisements from men looking for work, in vain. They'are to be seen standing on almost every street corner, and if an advertise ment should appear in the papers for a man ot
any description, the situation could be filled any description, the situation could be filled of any description, and the wage need hardly mentioned, as they are too glad of anything. have interviewed a good number on the question of going to Canada, as I think it is "the best" where work is plentiful and good wages for doing
t. The answer in most cases is, because "I cannot get the money to pay my way out." "It
takes all I can get to live." "I wish I could get out of this country, or I shall soon starve." ay to help solve "'the labor problem", in some are thousands of smart, active young men that vould be only too glad to earn an honest living ross the water.
Hoping this will not takse to oo much of your valuable space in the greatest JAS. BODY. Bristol, Eng., Feb. 20th, 1903. Late of Halton

We find the short-wool sheep to suit our clinate best. The long-wool breeds collect the snow in their fleece, and are hence not as well able to withstand severe weather-JNO. McQUFEN,


## Schoolroom Decoration.

We have been asked to give a description of our schoolroom, but at the outset we wish to the school, for they it was who supplied nearly all the material, and the arrangement is ather their plans, or modifications of their plans, and as such, aroused greater enthusiasm and greater pride than if the decoration had been done solely by ourselves.
Fortunately, we had a large schoolroom, the walls of which were kalsomined a light green shade, with a sixteen-inch border extending anly proved aom close to the ceiling. This not harmonized with the foliage plan the cyes, but pupils provided from time to time. Wich the the blackboard, the four museum cabinets and the bulletin board, were draped with green burlap For the wide, vacant wall space above the range of pictures, large blue eight-inch letters rere procured from the D. C. Cook Co. and pasted to pieces of cardboard. The letters were then cut out by the pupils and suspended on thin spool wire in swinging loops, forming such mottoes as "Willing Workers," Welcome," "Honesty, Industry, Intelligence and Integrity." At the end served not only to break the of various nations line of letters, but furnished subjects curved outpatriotism, and the use of flags. for talks on place to store our storm windows, We had no convert them into improvised picture fremes After fastening to the back of the glass on three sashes, $968 \times 10$-inch pictures of birds and animals in their natural colors, the sashes weme fastened to the rear wall of the room. The other wo sashes contained specimens of each pupili's rawing and writig, each being supplanted by a iresh specimen as soon as the respective pupils rork. Pictures Our museum cabinets hung along vacant spaces. $2 \frac{1}{1}$ feet wide by 3 feet and lined with green felt ${ }^{2} 2$ inches deep, with six shelves. In one celbinet we placed 150 ne-ounce round battles, containing the various inds of seeds and grains, each labelled with the ame of the grain, locality, and the name of the upil who collected it. Another contained Manioba grains in the ear, similarly arranged, while sections of the different woods of the world, and buds and leaves of Manitoba, trees and shrubs, led the other two. Our most interesting color which we number of small, delicate plants, for which we provided a glass case, made out of oose, moss-covered . In the bottom we placed center, with the space between the stones fille with suitable soil, in which the plants were set Four cylindrical, cracked lamp-chimneys, filled with sawdust, enabled us to observe the germination of the various kinds of seeds at different stages of development. The boys provided five brackets, and as many vases for flowers, and during the season when wild-flowers were in bloom girls in each considerable competition among the girls in each of the five classes in securing either the best arranged bouquet or one composed of the
rarest flowers. Of course our few pictures formed a part of the decoration, as did also several flow-
ers in pots, and sprays of various trees and ers in pots, and sprays of various trees and grasses, placed in out-of-the-way corners. our success was due to say that a great part of
in the school by parents ine interest tekien in the scheool by parents. Scarcely a week went
by without visits to the school from parents and by without visits to the school from parents and
friends. The pupils thus felt encouraged, and
realized realized that the school was their own; that
their efforts were appreciated and were thus stimulated to take a still deeper interest in the
school. When parents are willing to hitch school. When parents are willing to hitch up night and morning during the period of bad
roads and bring their children to school, we have evidence of that closer relationship between home
and school without which it will be difficult for our boys and girls to meet the rapidly changing ing, progressive methods and increased facilities are rapidly gaining for the farmer a social status
equal to any of the learned professions. But if we are to keep in the van of modern advancement insqire our boys and girls with self-reliance, the
dignity of true manhood and true womanhood, dignity of true manhood and true womanhood, hat the future of our country, We our prosperity and our institutions depend on the excellence .o
our schools.

Caleb Jinkins: His Letter.
 Corners Mar To the Edditer of the farmers Advocat, 1903 deer Sir,-es i haint got mutch to do jes at lines hoppin you air wel \& harty. i gess you be jedgin by the apperence of the advocat whitch looks es peart es a daisey ever time it cums along statin thet it is a cuppel of laps ahed of all in other farmin papers he is acquanted with. But it wunt say no more
on this pint es it
 these noo Amerikel
settlers \& free de livry of leters \& so
4th to farmers is one way we kin d

it. And speek $i$ bout the west thase no dout | dose thase |
| :---: |
| m | mind we got to mev ralerode thet haint no us rase 60 millins of thare if bout one haf farmers hands cus it

cant be took mant ralerodes. But i want to make a pint jes hear, wen we git the noo ralerodes we mus git em sum penys to speklate in. Sum fokes hear in the vilege wen we are argyin in the store ses it is a sine and leedin men bein direckters of em, but $i$ cant see ware that cums in. i tole om tother nite thet ing at it it wood
do the west jes es do the west jes es
mutch good to put tole gates up on
all the rodes and him of his fambly to bin fis about enuff to kee childern, sose thay, he haint got but a wife \& 2 work. Wel, nex thing wus thay mus leeve the farm and go to reside in toronto. mus learm the Corners wusent a leedin amuf of lesher and jinkins to the sitty, and thare thay hev bin livin sense that time. Mr. Wif-
feltree cum up hear
on a visit las week it looks like setty
ife dont agree with him. he haint so helthy es he ust to be on the farm ner so brite in the he hed sum tawk with him \& he good es
tole me he finds livin
in town haint wot its craked up to be and bout the handist work a man kin calklate we will. see
this unfortnit man this unfortnit man

that is jes wot he cum up to see about. on the subjeck how to keep tore nite at the store mungst the plans thet wus menshind thay wus one good idee thet i bleeve in and am agoin to
 let sum felers set
thare and take in thare and take in
toles. The west cant git along them cumpnys thay oney set on it like the dot on in.
the manger. The the manger. The
ginrel feelin hear
at the Co

sidys to ralerodes \& if the guvermint haint mitey careful it will
hear sumthin drop if it gose in fer sech a pollicy. Bildin ralerodes outen the publick munny \& then makin a presint of em to big coperashins along
with thousends of acres of land is a skeem we with thousinds of acres. of land is a skeem we
dont stand fer no longer. Let the cumpnys bild om es a bisness interprise \& the guvermint hev good servise, that is the skeem. Yurne fer justis
to the farmer, -

## Do Your Neighbor a Favor.

do hy reader of the "Farmer's Adivocate" nay of the "Advocate" the names and post-office adice dress of those of his neighbors who are not sub-
scribers to the paper, asking that a sample scribers to the paper, asiking that a sample copy
be sent to each. Then in a week, or so call on them'and ask them to subscribe, and do not forget to show them your last Christmas number. I spent a few hours in this way, with good re-
sults. Simcoe Co., Ont.
[Editorial Note.-The publishers of the "Farmor's Advocate will be pleased to send sample copies as suggested above, without charge of course, at this late date, new subscribers cannot expect a copy of the 1902 Christmas number, the supply of which was long since exhausted, but it will give them an idea of good things to come, and the new substiption wil date a full year on issue of 1908.

By feeding 1,012 bushels frosted wheat to wy haint the farmto sech favers frum the guvermint es mutce on this in the Advocat \& i hopp yyule go in fer it
strong. it will help to spred infermashin and ed dicashin among the farmin community \& needs is wot Canady crouds of new fokes is cumin in frum the
States and the States and the ole the West. i am tossin up my hat es you mite say bout
this incresin of our poplashin speshilly
es it is noo blood we air gittin and
not our own fokes movin frum the
other provinces to the west. We got
to take rite hold to take rite hold
and make good brit-
ish Canadians outen


In connection with the agricultural college to a department of domestic science, such as will fit a department of domestic science, such as will fit
the young ladies of the farm to do better work.-
HON. A. P. ROBLIN.

At the Ottawa Experimental Farm we have never raised hogs cheaper than when pasturing on
rape.-PROF. GRISDALE.

The man who is content, feeling he knows al that can be learned about farming, is ready to
learn about something else, and that is "failure."

Chas. Dickens said: "There is nothing so strong or safe in an emergency of life as the sim-
ple truth." Grouchiness seldom gets us what we think we

The Nature Study of Insects. Usually, teachers feel quite at a loss how to approach this subject. Where to begin and what to do are matters that oppress, but in no other subjects should they feel more at their ease. The trouble has been that the field is so wide, the inadequate that it has seemed impossible to bring inadequate that has seemed impossibie to bring the subject into any fruitul relation to elementary
teaching
Leaving out all anatomy and classifeaching Leaving out all anatomy and classiat work, no study can furnish more fascinating or more valuable lessons.
In all naturestudy, the teacher requires a aim-some goal to reach. What should be the purpose here ? Information regarding insects is not suffcient. Something higher is needed to give vitality to the work. Has the teacher ever examined into the remarkable interrelation of the several parts of the world of nature? The flowers
and the insects, the insects and the birds, the insects and the plaits, the plants and the soil, are oll bound together in a complex activity each one influencing the others and affecting the general welfare of man. The human side cannot be left out of naturestudy. For elementary
study one must select fust those things that study one must select Just those things that
stand in fundamental associations with life and stand in fundamental associations with life and
about which the children can find something about which the children can find something
worth while oto do. Has the teacher vert thought
that elemenatry agriculture grows out of this that elemenatry agriculture grows out of this
practical phase of the study?
dit is possible and
desirable to arrange all nature work so that desirable to arrange all nature work so that
many oo the facts and princippes of this oldest man ars and most recent of sciences "" may be
orasped and an interest aroused which will lead grasped and an interest aroused which will lead
pupils who expect to become farmers to apprepupis wh expect to become farmers to appre
ciate the problems of the farm and to feel the
need of a need of a special study and training for that
work. At the same time, those who do not after ward follow this occupation will gain a useful training and will better appreciate the dignity o
the farmer and the grade of intelligence needed in the farmer a
his profession
In thession reating your naturestudy to what is
In the
traclical you not only provide your tupils aith practical you not only provide your lupils with
a standard of measurements, but you may also train the intellectual faculties, increase the interest of your pupils in their school work, stimulat a real love for nature and cultivate a love and ${ }^{2}$ We may
in view. with what insect shall you begin? Take one that is common, one that can present an interesting lifit-stofy, a, astory easily read. The
mosquito will answer the mosauito will answer the purpose. In your
treatment, remember that you are to sugres and to guide, the scholars are to do the seeing
and the thinding and the thinking
-
conduct the work? about this insect. This will give you a foundation to work upo
(2) Obtain a collection of eggs
(3) Observation work in connection with the hatching, the wrigglers, and the mosquitoes.
(4) The relation of the insects to water, man, cattle, etc.
(5) Ho
S) How can the mosquito be removed paign." You may have to assist the children it paign. You may have to assist the children in
the finding of the eggs. When they have onc studied the eggs, they will wish to lind them in the swamps challow advice shall you cive? Hav
 nights in the height of the season. In the morn-
ing, sooty spots will be seen on the water-surface ing, sooty spots will be seen on the water-surface.
Remove these and place in a sealer containing soft water. Bring to the schoolhouse, and place
where the light of the sun will not be too strons where the light on the sun will not be too strong
Oley nature in this particular. Cover the Obey nature in this particular Cover the
mouths of the sealers with cheesecloth, and make mouths of the sealers with cheese-cloth, and mak
your observations. To assist, note the follow
ing: What is the shape of the egg-mass
How many eggs in each ?
What is the color ?
What is the color? arranged like a boat?
Why are the masses
How many hours wera the eegrs in hntichinis How many hours were the eggs in hatching
From which end did the wrigglers escape? From which end did the wrigglers escap
How did they behave on their escape? How did they behave on their escape?
Compare this with the young lamb, the young Compare
chicken, etc
What is
What is the appearance of a wrigglur ?
Is it easier for him to rise or to siuk ? Is it fond of coming to the surface?
Can you find a reason for this ? Do the wrigglers show signs of feat Can won thd whot thy ine ont To hulp
will be ready to discuss with profit such a ques-
ion as : the place of the mosquito in nature. The question of "remedies" is one adapted
to the older pupils. As an experiment, have the pupils add a few drops of coal oil to a bottle pens. Get the pupils to make the inference. Is it practicable? When should it be applied Again, obtain the nature of the seasons for the past three or four years. Were all equally favor-
able to mosquito life? ? Which was best, and why? Infer another remedy here. Finally, have pupils watch for mosquito enemies, particu-
larly the dragoñ-lies. larly the dragon-ilie.
It is unnecessary to mention that the abov
work may be made tho basis of both oral ani work may be made the basis of both oral an
writenn composition, and provide valuable training in drawing.
The teacher who has worked out carefully the story the mosquito has to tell will have no difif-
culty in underatanding and will have no aversion culty in understanding and will have no aversion case of the house fly the house moth, the potato beetle, the grasshopper, the aphis fly, and
caterpillar. caterpillar. $\begin{aligned} & \text { Vice-Principal } \text { Winnipeg } \\ & \text { ALEX }\end{aligned}$

## DAIRY.

## Broeding Fine Dairy Cattle

The breeding of typical and fine dairy cattle is an art of itself, and requires considerable forethought and study to attain the desired results. ideal the highest possible production of milk of rich quality. The type should be true to the breed he has chosen, and the form, that of the milk and beef combination, not coarse, angular or rawboned, neither must it show the nearly per-
fect squareness and evenness of the purely beei type (for it is impossible to produce the idcal dairy cow from this type), but the form unust be pleasing to the eye, yet always show in preponderance those points which belong especially to the dairy cow, among whioh is a perfectly lalenced udder. To obtain this ideal requires more quires quires more, also, than just a study of pedigree
(for this alone is often misleading), it requires deep study of the latter iteading, it requires a keen observation of the individuality of the animals coupled, always keeping your ideal before The old saying that Which handsome does is only partly true, and
he who produces cattle which do handsomely, and at the same time are handsome individually, is a benefactor both to the breed he represents and to his country. It is a deplorable fact that
fully 75 per cent. of our dairy cattle are bred without any apparent purpose in mind ; in most instances cows are bred to most any kind of a bull, regardless of any breeding or type, while
others breed to purely beef-bred sires, simply to get cows in calf and fresh for next season's work, get many of these calves are raised and in time
yeeome members of the diry hard Is it become members of the dairy herd. Is it any
wonder, under such circumstances, that some men wonder, under such circumstances, that some men
want to go out of the duiry business, saying that it is not profitable? What man would succeed in any other enterprise if he conducted it in the
same haphazard way?
However, under all these same haphazard way? However, under all these
adverse conditions, the dairy interest, in comadverse conditions, the dairy interest, in com-
bination with the raising of hogs (which so nicely go hand in hand), is one of the most profitable sources of revenlue we have from the farm, and is could, no doubt, double our real profit by paying courser attention to the the real profit by paying
clairymen have built up a buochest reputation adian dairymen have built up a good reputation for
our dairy products, and great strides are still our dairy products, and great strides are stinh
being made to further improve, and, if possille.
to lead the world should go the improvement of our dairy cattle of all breeds. We should, and I feel confident can, produce dairy cattle that will have a world-wide
reputation, and will be in demand in many counepatation, in this grand and great country of ours
tries, for we have ant the necessary reauirounents, abun-
dance and variety of feed, a healthy, bracing and dance and variety of feed, a healthy, bracing and
invimorating climate, and men of nerve amd brain. So let us lay our hands to the wheel and set our


Atter careful tests and records, extending over
five years. the Nelraska Fxxpriment Station con-
cludes that on an average. a row reaches her

## Butter from Gathered Cream.

It would be of great profit and advantage if each gathered-cream creamery had its own instructor to go around among the patrons to give instruction and suggest ways and means to han de the cream properly, so that it wo
It would not be necessary for the instructor to visit all the patrons, only those whose cream is not received in good condition by the cream col lectors. But it would be of advantage to the instructor to visit all the patrons once at least saving ways and means by which they can, unde unfavorable circumstances, keep their cream in fai ly good condition, and thus be better posted how to help some who have poor ways of doing

COOL THE CREAM AND MAKE BETTER
A little extra care to the cream will add ver much to the quality and value of the butter made in the gathered-cream creameries, and it is and make preparation so that the cream can be properly cooled and kept in good condition in warm weather. Farmers who have not a plentiful supply of well or spring water that can be conveniently used, should store some ice so that the cream can be kept in better condition for any purpose required. Good butter cannot be made unless the cream can be kept in a clean place and its temperature controlled. If the cream is not cooled and dill ripen and destroy the sweet gavor

WAYS TO HANDIE THE CREAM.
Farmers who have a good, clean cellar can
handle their cream by putting it in small shallow pails or pans, set on a cement or ground floor condition. Cream should not be put in a mouldy bad-ventilated cellar, where the air is impure After the cream is cooled in the small vessels, may be mixe stirred regularly twice it should be time fresh cream is added. Some progressive farmers have told me they have kept their cream in this way sweet and in good condition for the
creamery. Better not leave the windows wide open to allow the hot winds to blow through and warm up the cellar, especially on the windy side just a little open to ventilate and let in fresh air Farmers who water their stock at the well ca weep their cream with little labor by placing the water will cool the cream while it is passing through to the watering trough.
At some farms where the stock
At some farms where the stock is not watered cellars and no ice, a hole dug in the ground 12 to 15 feet from the well, about three or four feet deep, into which some small stones are put about set in a barrel, into which the cream vessels can be set and the water pumped around to keep the cream sweet. There should be a hole in the bot-
tom of the barrel to let the water out when it gets warm and has to be changed. A plug lon
anough to reach to the top of the barrel should be used to close the hole in the bottom. There might be a hole in the sjde of the barrel, just a
little below the top of the cream cans, to prevent over-filling the barrel and letting the water in the
cream. This overflow should he fixed so that the water can escape down the outsides of the borre to' the bottom, and not flow out on the top of the
ground. The barrel should be sunk so the wet and cream will be lower than the top wate ground. A small house should always be built
of rough lumber over the water tanks when set of rough lumber over the water tanks when set
outside and away from any other buildings, outside and away from any other buildings, to
keep the sun and the hot winds from warming Those having a good cold spring near the barm or house have the advantage of keeping the cream
in fine condition with very little labor. These are some ways that cream may be kept in good quire care and attention, as the cream will soll ICE.
 The conditions, may be such about some clemes
that it would ne necessury to store some ice, esnecially where there is not help and time to
change the water often enough and where the well or spring water is not cold enough, and
where the well water is scarce. A little time snent to flx a proper place to keep the cream
would be of permanent use and repay for the
trouble. besides civing increased satisfaction in
being able to kees the cream in a condition that 0ttewe Cheese Board Farmers' Mooting. and improve the good reputation of the creamery,

CREAM SEPARATORS.
Those having cream separators should pay particular attention to the immediate cooling of
the cream aitcor it is separated. Although the cream is cleansed from all impurities, it is warm
and will sour very fast, the same as the milk ould do if not coolded down. Sot it in water as not be mixed together. It is while the cream is warm that lactic acid germs will multiply and start the cream to sour quickly. The cream vessels shourd be washed and scalded every time
after they are emptied, as there will be enoust arter they are emptiod, as there will be enough
ripened cream sticking to the sides to start the sspeet craam to sour more quickly if not cleaned.
Every patron should have a thermometer to gide Every patron should have a thermometer to guide
him in the care of mill and cream. should be cooled below $58^{\circ} \mathrm{F}$., and butter to $50^{\circ}$ F. The fresh cold cream added every to $50^{\circ}$
hours will hell hours will help to keep the older cream sweet.
Better butter should be made and can be maide Better butter should be made and can be made
and less complaints will be made about the butand less complaints win be made about the the
ter made in the gathered-cream creameries if the
patrons would follow out the suggestions here patrons
collecting the cream
The patrons' cream should be collected in large lined inside with tin, with dead-air space betweend Each taink should be large enough to gather all the cream on one route. Some creameries have
an ice chamber in the center of the tank.
One horse will gather the cream on two ten-mile routes, from about twentysticts. It has bee
route, in mixed farming distrons suggested that each patron's cream should be delivered at the creamery in separate cans, so that
the cream of bad flavor could be detected and rethe cream or bad flavor could be detected and re
jected. The place to reject cream is at the patron's home, and not at the cream orery, as the the
patron would suffer great loss to have his cream patron would suffer great loss to have his cream hauled through the country on a warm day and
have it returned the next in a fermented condition, as it would be wholly unfit to make market able butter. The average patron sends only one to ten gallons of cream, and the volume of cream overheated and overripe in warm weather when overneated and overripe in warm weather when
delivered at the ereamery. This system will work where patrons send their cream in separate
cans a long distance by train, but it would not cans a long distance by train, but it would not
work satisfactorily in any other way except where the patrons have large herds of cows and live near the factory. But the gathered-cream creamery is ustually ostablished where the patrons keep few cows and live far apart. In such diss
tricts one tenk will give much better results. When the large tank is used a tap is opened on arrival at the creamery, and the cream rung into
a vat in the creamery a vat in the creamery without loss of time or
labor. But with small cans, the cream-collector labor. But with small cans, the cream-collector
and buttermaker would have increased labor washing them, lose much more time, besides Tasting more cream.
Ine high Lemperature of the cream delivered in the creamery cooling the cream, and the ehanes are that it would not be cooled quick enough to prevent it from overripening and to a low firm texture, especially in the busy season, and in creameries where 1,000 to 3,000 pounds of butter are marre daily, such as in the gathered-cream reameries of Bruce and Grey counties, Ont., the me tank is cheaper, inore economical in the sav-
ng of time and labor handling the cream, and will give better protection to the cream in tran-
,it, which is the most important thing in butternaking. There will not be so much trouble with trouble to fix ways to keep the cream sweet. cleanliness
Patrons shourd be very careful not to spill
milk about places where their cream separators nd cream are kept, as the place will soon become thy and ter cream separators should be kept $n$ this way. Cream separators should be kept
lean inside and outside, and should be set in a -lean place where the air is pure, especially those inds made with enamelled casings into which The cream and milk is discharged. The bowl.
inware and all parts touching the cream and nith should be removed to the house to be cleaned. When the cream separator is set in the
harn all these parts should be kept away. only harn all these parts should be kept away only
white the separating is being oone. Pour hot Thile the separating is being done. Pour ho
vater into a clean tin pail that has been in the stable or near a silo all day and notice the odor
that will pass off, and be convinced that the hat will pass off, and be convinced that the
stable is not a fit place to keep such parts of a stable is not a fit place to keep such parts of a
mam separator or milk utensils of anv kind. Noping that these suggestions will lead many to inp ove their methods of taking care of the "cr quality of butter, that will command higher Tices and bring increased profits to the patrons.
Wellington Co., Ont.
T. C. ROGERS. The Ottawa Cheese Board has just completed These have been conducted in the interests of the dairy ing industry of the ocunthe interests of the enthe
siasm which has been displayed at each and overy meeting augurs well fisp a sayed at eacch and every
netul seasom in 1902. Mr. N. G.. Somerville, of Brockville, at-

 TARLLIEB, kENT .
tended each of the meetings, and dealt with the
care of milk from the time of production until it care of milk irom the time of production until it
reached the cheose or butter factory. In speaking of the benents to be derived from ripening cheese a a temperature below 60 degrees, ho pointed
out that tho saving in shrinkage in a cheese eighty pounds weight was from a pound and a
half to thred pounds over the ordinary method curing at an uncontrolled temperature. One fac tory in the neighborhood of Brockville, by curing its cheese at a low temperature during the last summer, had made a saving of $\$ 150.00$, due to
Saving in shrinkage. ${ }^{\text {Mr. A. A. W. Woodard, }}$. Nontreal, gave very practical advice on cold, stor-
age, and described in detail homely methods of age, and describet in detail homely methods of ice houses and the storing and handling of the summer's supply of ice. Mr. John Fixter, of the
Experimental Farm, was present at several of the meetings, and gave addresses on the "Care of bees " "and "The growing of clover and corn."
The secretary of the Ottawa Chese Board at-


COUNTRY BLGOKGMITH SGOP AND POST OFFIOE COMBIMED.
tended each meeting, and placed before the dairymen the advantages to be derived by selling method of private sale. The action of the Ot tawa Board is a very commendable one, and could be orllowed with advantage by Western Ontario
boards. Almost any County Council would surely supply the necessary funds when the pros-
pects for doubling the investment are so secure.

## Type in Dairy Cows.

## the Editor "Farmer's Advo

I would like to heartily endorse the sentiments "Form the articie in your March 2nd issue, page 207, We hear the trash ation of dairy propensities. anything to rosith ment that type has not anything to do with performance coming from
the beef breeders, end very seldom from a dairyman. ${ }^{\text {m }}$ experience is that type is all we have to go by, and I frmly believe that I can take Jerseys and in twenty-five years seed thection for beef
point, them to the perfect beef form of
the Durham, and in the sam. the Durham, and in the same time can breed the Dirham to the perfoct dairy typ
simply by selection and nieking
Tt
to go wy, I have hadre from type, we have nothing dairying, and I find thrt every time peri couple the beef qualities with the dairy we los in the production, and when the beef men breed
thefr cattle to dairy production they perfect beof type.
I I am also confflent that a man is Just as mig fool to waste good feed on a dairy animal to
make beef as he is to waste make beef as he is to waste good feed on a beel
animail to make dairy products, and son that needs a general purpose cow is a pen
EDOAR
eral purpose man. eral purpose man.
Elgin Co., Ont.

## Buyine Wilk Cans

es, "Dairyman" writes : "As the season progredses, arrangements for caring for the summer's
milk supply are being made. In thit connection we are remmed be of madid. In this connection
 milk can, but the inslde exposed one great defoct,
the bottom came toward you when you looked
into the can into the can.
toward one. might. be a harrmeses bottom coming
itself, but it is always associated wifth a in groove around the ede at he he lunction of the
bottom and the sides, where firt and germi moet on one common grourd, and with one com mon aim, namely, to contraminate the mink as
soon as it is strained into the can. Theretore it any of our readers find it necossary to buy? from you when you take th trom of Othe awe
you shall have several guilet intervis. the gentlemane who is trying to malie firit-didit ciese at your factory, and who employs the
serrices of io factory instruetor to assist him in
the commendeble the commendeble work:

## Bloniy Milk.

Helfer calved in June last, and is still milleing. During the summer one of her fromt milke Tould occasionaliy give clotted and bloody milk,
Thero is now a small lump in the teat, and two
with milksing, will have to be opera if it it interferes
veterinarian, disappear with age, but ise this weaknees may disappear with age, but as there are three teats
now affected, I do not think it would bo wise to breed her again
The labor problem is, undoubtedly, one of the most serfous that the farmers of this country
have to deal with.-HON. THOS, GREENAY.

## GARDEN AND ORCHARD.

## The Apple Orchard.

## By H. s. prakt.

When trees are received from the nursery they should be heeled in unless immediately planted, completely covered with soil, or placed in wate until they revive.
thorough. A hoed previous to planting should be a good foundation, but in any case the ground should be in a high state of cultivation and fertil
ity. The apple will do well on almost any kind ity. The apple will do well on almost any kind clay loam. Stiff, clayey, sandy or gravelly soils will give paying results fnom a well-cared-for orchard. If the land is not naturally well
drained, underdraining should be thoroughly done. drained, underdraining should be thoroughly done.
No tree can grow and do its best on wet, cold land.
Every orchard should be set with some regu-
larity. Some recommend planting on the square; larity. Some recommend planting on the square, that is, the trees are planted so as to be in line
in all directions. Others prefer the hexagonal method ; this enables one to set about fifteen per cent. more trees on an acre of land, a great item where land is valuable. In the latter method of planting, the trees in the second row are set ing a hexagon and enclosing a seventh in the center. To ascertain the correct position for the first tree in the second row, and, consequentin, the distance apart for an the rows that way as the alstarice apart which the trees are to be
set, fasten one end of one to the first tree in the frst row and the other string to the second tree in the first row. Next stretch out the strings,
and the place where they meet is the position for the first tree in the second row.
(We heve never seen an orchard set on the hexagonal method, and fail to see how by this plan any more trees can be set on a given area,
although we believe the land will be more uniformly utilized, and consequently the sunlight more evenly distributed throughout the tree-tops. - Diditor.]

Before any trees are planted the ground should be staked out, in order that the trees may all be placed correctly. It is better if
shere each. tree is to stand.

To plant correctly and quickly, use a board lour feet long, with a notch cut in the center against the small stake and put a small pin in each of the end holes: remove the board and dig the hole where the first stake was placed. Replace the board and plant the tree, keeping it in
the notch of the board; if the work has been done cerefully the tree should occupy the exact position of the previous stake
When planting
When planting, one man may go ahead and dig the holes, and another follow and set the deep, and a little surface soil placed in the botPlant the tree four or five inches deeper than it stood in the nursery, and slightly in-
clined towards the prevailing winds. The roots clined towards the prevailing winds. The roots stoppage in the circulation of sap upwands for the manufacture of plant food.
Only a few trees should be
Only a few trees should be removed from the
place where they are heeled in at a time and the place where they are heeled in at a time, and the
roots should be kept in thin mud or water to prevent them from drying out. Remove all hroken or injured roots. Head back the tree to from three to five strong branchies, and cut these may be forced by the circulation of plant food It is always well to leave the last bud pointing in the direction in which we wish the branch to grow, as the last bud usually makes the strong-
est growth. With ref
northern exposure is generally the best adapted, as it is not so likely to be injured by early fall
or late spring frosts. In regions where there are or late spring frosts. In regions where there are
many high winds and no natural protection for the orchard, a wind-break should be planted. The best wind-break which I have ever seen was composed of a double row of Norway spruce,
planted eight feet apart and alternate in the maple, planted alternately able wind-break, and forms a handsonve backIn order that young trees may grow rapidly
Iney should be thoroughly cultivated until the they should be thoroughly cultivated until the
middle of summer, when cultivation should cease in order to allow, the wood to harden for winter. is the best method, to follow, but a strip should ation. As the trees grow and repulire the plant it is often advisablo th intorplant with short-liz nes give a good "return from the liand As the
apple trees grow, these fintererns thust be re
moved, as a robbed tree cannot give the best re sults. The greatest evil of interplanting is the tendency for some growers to allow the secondary
plantation to remain too long and so injure the apple trees.
When an orchard comes into full bearing all cropping must cease and the orchard receive thor ough cultivation until about the middle of summer Such a crop tends to prevent capillary evaporation from drying the ground, and also furnishes a large quantity of vegetable matter to plow down the following spring.
Where a large area is under orchard, the inability to obtain sufficient farmyard manure the best of all fertilizers, causes the shrewd orchardist to tax his brain to conceive of some suitable substitute. When a leguminous crop is
plowed down there is considerable vegetable plowed down there is considerable vegetable roots furnish a large amount of nitrogan.
Other plant foods must be returned to the For a supply of potash and phosphoric acid, un leached hardwood asheg are the beat we cinn obvery useful, but their correct composition must be ascertained before using.
In the spring, after the ground hag become be plowed rather shallowly. Great care must be exercised, as deep plowing will cut of many feeding roots. After plowing, keep the ground
worked on top with harrows or cultivators, at worked on top with harrows or cultivators, at ground could be worked soon after each showe so much the better
About the middle of July is the best time to cease cultivation in order
When interplanting with small fruits is prac ticed, it is much more difficult to keep up the
fertility than in cases of general rotation of crops, hence the cultivation and fertilization must
be much more thorough.
(To be continued.)

Pear Scab.
I have a pear tree 25 or 30 years old; blossoms profusely, but bears very little. The leave and fruit turn black and mouldy. Fruit cracks. Ould you give a remedy in your valuable paper
Ontario Co. W. C. Ans.-From the above description, I think it is apparent that your pear tree is affected with pear scab, a fungous disease known technically as Fusicladium pirinum. This disease affects to a greater or less extent most of the varieties commonly grown in this Province. It is particularly bad on the Flemish Beauty

The fungus is surposed to live over winter in leaves. In the leaves. In the spring it first appears on the erge intio large black blotches. On the fruit it to a deadening of the tissues.
These become darker and increase in size until, if badly affect ed, the entire pear becomes covered and eventually cracks. This cracking usually accompanies the scab, although it may not be directly caused
by the disease; as it is claimed to be, in some by the disease; as it is claimed to be, in some
varietic, the result of certain irritable external influences.
Since it
Since it is believed that this fungus winters in the young branches and diseased fruit, it is rquite ease should be prevented; for once having secured a foothiold, the spores are fapidly produced and The besteminated, especially in oool, moist seasons. The best means of prevention is spraying with made soon after the leaf buds expand should be ond, just befor, the heassoms open; the third, immediately after to Livaiuins fall; and subsequent sprayings at intervals of two weeks.
$\begin{aligned} & \text { O.A.C., Guelph. }\end{aligned}$
A. B. CUTTING

## A Big Onion Crop.

I saw ann article in the Frarmer's Advocate, tained from growing onions, and which was fully illustrated in your valuable paper, and grown by
Mr. G. P. Collyer, of Middlesex Co., Ont. Now last season. My soil is of a sandy nature, or
dark loam. and in hiuth stato of manure every year, with all the well-rottod maspring of 1902 I drilled in a little lese than four
Pounds of onicm seed, which I purehased of J. $\Lambda$.
Cimmerg er 600 bushels of onions from three-quarters of round for a hamber of years. and I fird they do

## Fertilizing Orcharde.

A correspondent writes to know whether would advise the use of commercial fertilizer on his orchard. The soil is sandy, and it is almost impossible to get barnyard manure. There is no doubt that the orchard needs barnyard manure which should be applied as frequently and liber ally as possible, but as it can scarcely be ained, other alternatives must be resonted to. For this purpose we have several commodities As the soin is sandy, we may salely say it nceds all the fertilizing constituents, and as the owner has a business in town, we would suggest that ho secure all the wood ashes possible to supply the potash to the treas. For nilrogen, and to supply humus, green crops may be grown. In the pring, if peas, oats and vetches are sown and plowed down, followed by a crop of buckwheat retain plant food during fall and apring the to will poll the land and soon be plonkuly suppled will nitrogen and humus. Phosphoric acid is still lacking, and though probabinty will the al ashes and green crops. Probably the by the in which to breen crops. Probably the best form of strperphosphate of lime. The price per pound will depend upon the per cent soluble phas phoric acid and also upon local condition. So the superphosphate with the spring week or two later, then again with the summer crop. The amount to apply will also depend up on the per cent. of soluble phosphoric acid, and in buying, a certificate stating the percentage should be obtained. When this factor is determined, enough of the superphosphate should be added to furnish about 25 pounds of soluble phosphoric acid per acre to each crop. About the trees it may be sown a little thicker
Another good method of obtaining phosphoric acid is to collect bones and stratify them in a large wooden trough or tank with wood ashes. When the bones become sort enough to mix with the ashes (which will require about six months), he whole mass can be applied to the soil. This is an excellent application for gardens or lawns, anes a erost common-sense method of utilizing ones and ashes
With such treatment, and by applying a liberal coating of manure about the foot of the trees, a orchard on the very poorest of soils should in
short time be coaxed into growth anid bearing.

## Canada Hardwood Ashes.

In the February issue of Country Life in Ame alf pubtished at Harrisburgh, Pa., is a large whase ifustration of a most beautiful private how 'the benefits The object of the picture is to n our lawns." slightest note And we think there is just the the illustration. Perhaps we feel too keenly of the subject, but why shaps we feel too keenly on ashes be taken to the States to bood harawood rade fertilizer making to be used as high the most spand ing their lawns and park complish the same end, spend large sums of mone on their commercial fertilizers ? Surely there lesson for us in that beautiful illustration ur lawns and orchards need fertilizer to main when it can growth. Barnyard manure is good are objections to the use of in many cases ther albout some trees Hy ond lawns and lawn, and then giving it a watering with dilut liquid marure, the grass is siven a life and increases its beauty and utility on the farm. The ashes may also be applied to any field crop with good results, and every garden is benefited by a sprinkling of them.

It is not the price which we get for our stock ween the RAHAM, Pomeroy. price obtained.-ANDREW

We have made a pound of pork from ever hree pounds of a pound of pork from every grain that we fed. -W. M. CHAMPION Reaburn

POULTTRY.

## Wryneck and Roup.

I am glad to say that the wrymecked cockerel I wrote to you about seems to be getting better so Mr. Graham won't have the pleasure of in specting his carcass this time. After I wrote to you I saw an inquiry about a wrynecked hen and the advice given was to starve the bind for
six to six to twelve hours and then give two tablets of
Santonin 2X, repeated every hour till given, and then give a tablespoonful of sweet are or feed the bird crushed garlic bulb. I gave the santonin and fed it onions. The bird's neok was like this $S$, with the head twisted under the neck: it is now nearly well; the head is still slightly to one side. It is said to be the result either of
digestion trouble or worms, and is a brain or nervous disease.
I have just cured another cockerel of diph theria or roup, am not quite sure which. It was dumpish in the morning, and would not eat, and very cold at night. I took it in and went to feed it, when I found its mouth was full of bad smelling mucus, and its tongue seemed glaed sprayed with a mixture of coal oil, Graham's iniment and listerine. I think that, checkeid the disease to some extent, as its head did not swell nor did it have any discharge from its eyes or cium sulphide, so used peroxide of hyidrogen, recommended for routp, but which is used by doctors in diphtheria. This was mixed with water, one to four, and used in a small oil can. I about one-half inch in diameter, of lard two parts, vinegart, mustard, and Cayėnne pepper, each The part, with enough flour to make it thick. The bird is now doing well; it is very thin, and breeding, but as $\$ 10$ would not buy me as good breeding, hut as $\$ 10$ would not buy me as good
a one, am well content to have saved it at all.
Prescott Co.
C. W. BEAVEN.

## Raising Turkeys.

The first essential in raising turkeys is to have table birds, small boned, plump individuals should be used, and old birds when not fat or otherwise incapacitated are better breeders than the yolunger females. A large range is always required for
exercising. The hen turkeys usually begin laying in early spring, and to more easily secure the eggs, nests are arranged in secluded places about away to lay, they should be kept up until they away to lay, they should be kept up until they
have used a new nest a few times ; they then will not desert it. Generally speaking, turkeys become broody after having laid about eight to twelve eggs, and, if possible, they should not be
allowed to sit until they have laid about twenty.
all natural incubation, and the best mothers are the turkey hens themselves. They are isetter protectors, better rangers, do not wean the young so early, and are kinider to their young that are
chicken hen mothers. A turkey hen will cover $f \mathrm{from}_{\mathrm{m}} \mathrm{mfteen}$ to twenty eggs, and requires twenty-
eight days to hatch eight days to hatch
them. When the young hatch they should be left alone until the old turkey brings them rossible a clean coop with an enclosed pen should be arranged near the nest
to harbor the youngto harbor the youngweek or two. If If this is not practicahe, they should be crassy plot. ${ }^{2}$ They must be kept clean and dry. Running in the cold, wet
grass in the morn-
ings is fatal to oung turkeys. They food during the any ood during the first Went y-four or
thirty-six hours. tiren food must be literally fed. Other oods for the young ane stale bread
rumbs, hard boileded
nims aind cur r ded
nilk, for the first

after this, cracked grain, table scrapp, mill (growing turkeys) begin to develop red the poults wattles, they are then about able to care for themselves, and will need nothing more than a leed of grain at night to induce them to come given in wet weather


Foxicound PuppIEs.
H. Readhead, "Bow Hill," Celgary,

## An Enger Rocori.

A lot of poultrymen are doing. a good deal of lalking about how many egge their hens lay in like very much myself. It is I thint paper, which T greatest papers of the world, not, one of the farmer papers of the world, not only for the 38 pure-bred everybody. But let me tell you what me: Duri Plymouth Rock hens have done for 38 hane laid the month of Jamuary, 1902, my March 144 ap eggs ; in February, 611 eggs July, 709 . August, 676 ; May 839 ; June, 827 ; ber, 580 . Nowgist, 676 ; Septomber, 611; Octomaikes a total of 7,599 ; December, 200. This age of 200 eggs per hen for the year. Now, if there is any man wilh Leghorn hens, or any other frem, that can beat my hens I would like to hear
T. J. ROBINSON. Durham Co., Ont

## APIARY

## Do we Need a Honey Exchange

 by morley petrit.So many good ideas have been advanced of late wation of homence to co-operation and organito know fust whet to ese on the is at a loss time seems to be ripe to on the subject. The time seems to be ripe to do something towards not be out of order to consider carefully the con ditions with which we have to deal

In the first
the industry is still in its infancy, andd, although following the tendency of the age toward special ization, it is by many conducted as a side issue; consequently, the bees and honey do not receive
their proper share of attention. If the six or eight hives happen to produce more than enoug for family use, the balance is apt to be looked upon as so much clear gain, and turned over to
the grocer at his own price. The latter, having the grocer at his own price, The latter, having
bought at a low figure, cain accommodate his customers by selling cheap. In other words, the small producer thoughtlessily sets the retail price low at the beginining of the season. He does not lose much on a few hundred pounds, but the large producer, who must to a certain extent follow his
lead, loses considerably in his thousends and tons.
How is the proldecer to know how or whiore to
sell to the best advantage? He may have largecaverage yield, and conclude that have a very plentiful, while, penhaps, a few miles away there is little or none. This is often the case. He may have heard that Toronte, Whinniper or some other place is a good market for his sur quently certain centers are crowded with honey, while outlying points, perhaps nearer the producer, are experiencing a shortage. How is thls
to be avolded ? These and other similar problems can be solved by the formet similar proberly organized and properly conducted exchange, embodying the co-operation of the thousa
WHAT A HONEY EXCHANGE COULD DO.
A well-organised and properiy-conducted honey for the beneft of fits and distribute information for the
ducers. members Information could be collected from the members, and e monthly or fortnithith buthett
published for thelr especial bonent, ahowing the
number of hives and condition of bees, algo the number of hives and condition of bees, also the all parts of Ontario and adjoining Provinces at that date, of the current and two preceding years. These reports should also show how much honey
has been, consumed In each section of the country in former years, and whether the soipply this year meets the demand. If a shortage exist, Juast enough and not too much can be shipped in from the nearest place having a surplus. In cese of surplus, perhaps by Judicious advertiaing, the demand can be increased to meet the eaupply. In any case no overcrowding of the market shiould
be allowed, Better to export the surplus at a be allowed. Better to export the surplus at a
much lower figure and distribute the sman loss over the members of the exchange, in proportion
to. their honey crop, than allow it to remath and is A matter which is at present sadly neglected is the advertising of cines, while the most pleasant and mutritious of thturn sticets is comparatively unknown in our Cansdian homos. The reason is not far to seek. "Honey is honey," and under existing conditions sale of Brown's honey almost as much as his
own. The only way out is for Smith. Brown, et al, to form a honey out is for Smith, Brown, et honey of the exchange. They would then agree come exorbitant, by the way, on account if the direct competition of fruit, syrups, and for aign
honey. .- They would advertise extensively uitil along with "papa" and "mammat" by the lisping Another matter which can only be mentioned here, is that of proper grading of honey and
putting it up in the best shape for market. The puting it up in the hest shape for market. The of members is properly graded and packed, and
each package should be sealed with the seal of the exchange, not to be opened agajn except by
the consumer. This seal would come to be sought
after by buyers. the consumer.
after by 3uyers. The thoughtful reader will be able to work wees the manifold advantages of a well-organized

## QUESTIONS AND ANSWERS.

$0 .{ }^{2}=0$





## Veterinary.

annowerot by our Voterlanary Editor. 1
Shbsoribers are kindly requested to read the condtitions at the head of this department before writing or mailing their enquiries.

## n-.-anto Tmont.

I have a cow that has a disease of the throat. She has a lump a little larger than a good-sized cuity in getting her breath, she is runine difmter freely tot the noese, and the mintter clogs in her mouth and chokes her so she is coughing a good deal. Eats and drinks fairly well; she has had the disease for nearly three months. Is the
trouble tuberculosis ? The lump is between her Jaws, right below the windpipe. SUBSCRIBER.
Roselend, Man. Ans.-The trouble is probably due to the lodgment of some foreign body in the soft tissues gullet (larynx or pharynn). Would advise you
to examine, very carefully, the parts mentioned to examine, very carefully, the parts mentioned,
which cannot be properly done without the aid of open, and if any foreign substance is the mouth it, as a matter of course, should be removed which would likely be all the treatment necessary. The lump below should be freely opened with a not necessarily indicate tuberculosis. You might however, have the animal tested with tuberculin. LUMP Jaw.
Two cows had lumps between their jaw bones When about the size of goose eggs I had a vet
He pronounced cases of lump jaw. He gave mee medicine to
drench with, and now, three weeks after treatjaw ; is it contagious, and doesh. Was it lump aw ; is it contagious, and does a cough attend Essex Co., Ont.
Ans.-There is no doubt the cases were lump
jaw, but the bones were not affecterd. It is not jaw, but the bones were not affected. It is not the discharge from a diseased one, might contract coughs mentioned have no connection with the disease. If the coughs continue, you had better
have your veterinarian test with tuberculin indigestion in lamb
Lainb holds hay in its mouth most of the
me. It will eat grain and roots, but is no hriving. It does not chew its cud. but is not

## 

1. Mare has scabs the size of pumpkin seeds in her ears. When trotting she whistles. When standing in the stable she kicks the side of the
stall, and when tied outside she pulls back and breaks the halter. She "acquired these habits within the last month. Are they due to worms? his hair is dry and thin. Iast fall is not doing well; his hair is dry and thin. I feed, him two quarts
all. What will rid young pigs of worms ?
2. 
3. Last spring my pigs, about three weeks duld, tools diarrinoes, which fasted three of four | ront ones. |
| :--- |
| Kent Co |

Ans.-1. Dress the scabs three times daily with Carbolic acld, one part; sweet oil, twenty parts. Nothing call be dione for a whistler. Put her in
a bour stall until she forgets the hebit of lifecing, and tie her with a strong rope halter that not due to worms, but to carelessness in han-
ding, and they are hard to cure. d ling, and they are hard to cure.
2. Give him a larative of about eight ounces
inseed oil; scald his chop, alnd give him only what he will eal. Feed often and a little at a time. Give ifteen grs, each, sulphate of iron six ounces raw lo simseed oill, toccoraing to size. ate. This was due to something the pigs or sows 5. A veterinarian can remove the teat, if it
must be removed. It is an operation an amamust be removed. It is an operation an amachite Honsms.

1. Horse went lame in his shoulder early last fall. I applied tiniment, and followed by blisters of different kinds. He got neariy better, and I drev rails with him a few days ago, and he went
as lame as ever before night. as lame as ever before night. leg about the same sprained the tendons of fore
I bathed, bandaged leg anout rubed with liniment, and followed by blistering. He is still lame, and the tendons hard and swollen.
Middle
esex Co., Ont
Ans.-These horses require the same treatment to affect a cure: Take binity, take some months centharides, of each two drams, vaseline, two ounces; mix. Clip the hair off the parts aud rub the parts. In 24 hours rub well again with the blister, and in 24 hours longer wash off. Let his head down now, and apply sweet oil every day tilister as at first. Give rest, and again and blister monthly until cured. rest, and after this
gore back and withers,
gaddle rests horses has a sore back where the worse now. It raises in little lumps and bets raw. Another is somewhat the same, but does York Co., Ont.
will he.-The harness must be fixed so that there will be no pressure on the affected parts. Dress with raw parts with butter of antimony, applied Bathe well with cold water for four dressings. dry and apply the following lotion: Sulphate zinc and acetate of lead, of each one ounce: water one pint. Simply bathe and use the lotion on burbal Enlargicmicmi
Four-year-old colt has puffy lumps on the outside of his hocks; one appeared at two years and
the other at three. He is not lame. Dufferin Co., Ont.
Ans.-These are bursal enlargements. Keep him quiet in a box stall. Blister with two drs with two ounces vaseline anid cantharides, mixeed rub blister well in. Tie so that he hair off and the parts. In 24 hours rub well again with the blister, and in 24 hours longer wash off and apply vaseline. Let him loose in the stall now and
apply vaseline daily until the scale comes off.
Blister every month indigestion
Cow calved last week; before calving she had chop. The meal was increaset to twice the sick, appetite impaired, and secretion she became duced. I am now feeding pulped mangels, two
quarts chop, and clover hay Ans.-The amount of choubsCRIBER. Ans.-The amount of chop was increased so
suddenly that it caused indigestion, and conso suddenly that it caused indigestion, and, conse-
quently, loss of appetite and decteas ind

Agalnotia ins Bow.
Sow farrowed in February, but had no milk tried to raise the litter on cow's mill, but they
all died. The sow was in good condition fed very lightly for four days before farrowing and not fed at all for 36 houns after. She appeared sick in 24 hours after farrowing, and I purged her with oil and Epsom salts, and got all right, except for the absence of milk. She $t$ was mith fever fromin feeding soon after farrowing. She has bred successfully for several years.
Wentworth Co., Ont.
Ans.-Agalactia, or an absence of mills, occasonally occurs in all classes of animals without tice to withhold food for $\mathbf{3 6}$ hours after farrowing. The want of nourishment was probably the cause of the sickness in your sow. The starving or fasting would certainly tend to cheok the should have encouraged. In cases of agalactia. the female shbuld be fed liberally on soft food to
encourage the secretion of milk. In some case oncourage the secretion of milk. In some cases liberal feeding will correct the fault, and in others not breed the sow again; young pigs can be raised on cow's milk; it should be diluted with one-third of its own bulk of water, a little sugar
adided, and given often and a little at a time, at adided, and given often and a little at
a temperaturd of about 100 degrees.
meirer with a covor-suon.
Heifer had a dry cough all winter,
heezes loudly and breathes shoort anid quick The least ettertion affects her breathing very tuberculin ?
2. Heifer just calved. Before calving one of She is hard to mill about twice its normal size. Carletion Co., Ont.
Ans.-1. The symptoms indicate tuberculosis perience, it is not necessary instruments and ex erinarian to test with tuberculin, but unless he has had experience it will pay him to emplioy an expert, as a person with no experience will probably bungle.
2. Experiments with a view to enlarging the external openings of the milk ducts, in order to cessful, and often nake the case serious. When the openings are congenitally small, as in your case, it is better ing, or fit her for ; either have patience in milknot allow any inexperienced At all events, do Benefit has sometimes been gained by inserting plugs in the teats, and allowing them to remain the openings, but great care must be taken to have them thoroughly disinfected, and of the proper size and shape.

$$
\begin{aligned}
& \text { siape. } \\
& \text { IHISGLLLANETEOS. } \\
& \text { Id you treat horses }
\end{aligned}
$$

1. How would you treat horses to make them regular?
2. What causes horses to slaver at mouth? rusting in the stable?
Ans.-1. Feed a reasonable amount of hay and oats of good quality, with a carrot or two daily Groom thoroughly at least twice daily, anld clothe warmly. This will keep them sleek and healthy. require medicine to keep them healthy and the kidneys regular is all wrong. The regular or periadical administration of drugs for this pur-
pose is injurious. Horses should not be giver drugs unless sick, and, of course, the drugs to be given them will depend upon the disease. It requires careful feeding and plenty of grooming to keep horses looking well. A lazy man never has
a sleek team, as nothing will take the place of a sleek team, as nothing will take the place of
grooming and attention. 2. The usual cause of slavering is irregularities
of the molar teeth. A veterinarian will correct this. It is sometimes due to irritants in the lood, and a change to pare food is indicated.
3. Rubbing the mountings with prevent tarnishing, otherwise it cannot be pre-
vented in a moist atmosphere vicious mare
I bought a mare a month ago. She appears
to be in season all the time. She is wild and disagreeable to handle: is continually switching her tail and passing small quantities of urine.
Bruce Co M. M. D. Ans. - Your mare is not suffering from any dis-
ease. She is a mean, cranky, vicious, irritable brute. If you are not very careful she will table No medicinal tieat ment will be of any value. Her ail can be tied down to the cross bar to pre-
cent her switching, and it is possible that her
rankiness is partially due to rent her switching, and it is possible that her
crankiness is partially due to ill usage, and may
In' curat ly hindness. lion curat lo himplness. A mare of such disposi-

Frese smovid bis telimarid.

1. My colt, 10 months old, runs loose in box out on the sides, Find ore is split are flattening ters of an inch
2. What should he be fed
3. How old should a colt be before being orked ?
four years old ? Addington.Co., Ont.
Ans.-1. Get a pair of hoof clippers, a foot knife and rasp, and dress the feet to as near the normal shape as possible, or get your blacksmith
to do so. This should be done about once a month, as the wear is not equal to the growth, and if neglected the feet become abnormal in size and shape.
4. All the first-class clover hay he will eat about two quarts scalded crushed oats night and morning, and one quart whole oats and a couple
of carrots at noon. A feed of bran should be given in addition twice weekly.
5. A colt should be handled and educated to
go in harness before two years old, but should do little work until four, or better five years 4. He will make a better horse if he does lit-
tle work until fully matured. tle work until fully matured.
6. I noticed my horse passing white worms. He does not look as well as he should, considering the food and care he gets.
Prince EL. urd Co., Ont.
Ans.-1. 'Tike 1i ounces each, sulphate of iron, sulphate of copper and tartar emetic, and one ounce calomel; mix and make into twelve powders: Give a powder night and morning, in
damp food. If he will not eat them, mix with a little water and drench him. Starve for ten hours after the last powder, and then give a purgative of eight drams aloes and two drams inger. Feed bran only for 24 hours after giv2. Repeated blistering and long rest will usuklly effect a cure.
indigetion ili cow.
Cow has been sick for fiftean days, eats little and does not ruminate, and bloats at intorvals Quebec Fast Iow
Ans.-She has indigestion. Ans.- She has indigestion. Purge with 13 . Repeat the dose in 36 hours if necessary. Follow with two drams nux vomica, and one dram each, sulphate of iron and gentian, night and bloating continue, give $1 \frac{1}{1}$ pints raw linseed oil and two ounces oil of turpentine. A sick cow
will not ruminat
neozerina.
I have a young mare with eczema in hind legs, She took it about a month ago ; her legs are itchy and swollen ; hair is also coming off. Please prescribe a cure.
Ans.-See last issue of our journal, page 213, Indigestion and skin disease.
opetrealmia.
ng over her eyes. Ans.-Place in
A. L. S.

Anse with one portially darkened box stall. cyes well three times daily with warm water, and after bathing put a few drops of the following lotion into each eye: Nitrate of silver, ten grs.;
distilled water, two ounces.



## carakter in minime.

Heifer was noticed shivering one morning, bu ate her food. Next morning the same; was chew ing her cud at noon, but did not appear right stall. Next morning she seemed was phit in box dead at tan o'clock. $\quad$ R. T. Ontario Co., Ont.
Ans.-It is impossible to diagnose the case without further particulars of symptoms. A post cause of death. She may have died from slo tion thal hemorrhage, or possibly from inflammetion of the bowels. In fact, death may have
beem due to one of many causes.

HORSES WITR covar.
My horses have a bad, hollow cough Ans-It is well.
the cough, without possible to say what cause are many conditions that cause coughs. There coughs are usually caused by heaves, and if your feed little bulky ford way, all you can do is give larger quantities of frst-class quality, and ity. Dampen both with grain, also of good quality. Dampen both with lime water

## PHCOERING AFTER WOUND.

In the spring of 1901 my mare got her leg Posterior surfice of the pastern. It was low to heal, and now there is a thick, dry scab Bruce whole pastern is swollen

Ans-The
action in the parling is due to inflammatory trame aloes and two drams ginger. Apply hot poultices of linseed meal to sorten. Ahe scably hot moved from the scab After the dry surface is redaily application of a little butter of antimony Apply with a feather. You will find it is a ver hy an matter to reduce all the enlargement caused by an aecident, and in many cases an operatio

Ansonss in foot
Horse want lame. On removing shoe I found a bloonataliod spotion whioh matter escapes Grey or prick. The protruding suusstance is a pruise tion of the soft prorts of the foot, and will disappear on subsidence of the inflammation. Apply cid, one part; sweet oil, fifteen parts applied warm three times daily, LUMP ON THREA Please inform me, through your valuable
paper, a cure for a two-year-old steor which has paper, a cure for a two-yearold ste
a lump on the side of the throat.
Lambtion Co., Ont.
Ans.-Ascertain whether the lump contains pus If so, lance and wash out with warmin water and carbolic acid. It the lump is firm and does not contain Ipus, rub frequently with foding. If the
lump is hard like a bone and attachod to the jaw, it is probably lump jaw. For treatment the last issue, page 218.

## TORPIDITY OF EIDNEYB

Mry mare's urine is milky, thick and foamy and her hatr dry. I have given sweet nitro, with Victoria Co. Ont.
Ans.-There is torpidity of the kidneys. Do
not give sweet nitire; it is more of a stimulant than a diuretic. Give a more of a stimulant trate of potreh, in demp or boffect tota, oviry night for three doses. If this does not clear the
urine, repeat in ten days. wis vomer
For a year and a half one of my eives vomits What she eats, ceppectelly tumitps and salt. She looks we quidins, - It may be cud. Dinat it is not vomition, but teeth are irregular have them dressed. I cannot account for a sheep vomiting turnips and salt nd not other food, and if it really be nomilion, would advise you to not feed her $\varepsilon$ ny turnips, turnips may disagree with her.

Tast fall my mare's legs orminimainh
broke out. Later her eges got socke, and she became
powder
better. powders, and her legs are better and eyes some
better, but the pupils are contracted. W. J.
Ont Ane-As her legs are better, no further treatconnection with the cracked heels. She evidently has a constitutional disease called periodic
ophthalmia. Its recurrence cammot be avoided, ophthalmia. Its recurrence camot be avoided, and if she has a few more attacks she will, in ali
probebility. go blind from cataract. When af-
focted give her alight purgative of sey, six focted give her a slight purgative of say, six
drams andoes, and two drams ginger; place in a
conntortable, partially darkened box, bathe the oyes well three times daily, and put a few drops of the following into the eyes after bathing, viz:
Sulphate of zinc, ten grs.; sulphate of atropia Sulphate of zinc, ten grs.; sulphate
five grs.; distilled water, two ounces.
 1. Three-year-old colt has an enlargement on
one stifle joint, and the other cracks when he 2. Another colt, the same age, had weak fetmost of the first summer. The pasterns are the oblique, and she stumbles now when $I_{\mathbf{R}}$ am break Ansoe Co. Ont.
Ans.-1. The colt's stifle bones come partially out, and the cracking is the noise made by the and repeated buch as you mention. Absolute rest will stringthen the liga-
ments, but it is not probable the lump can be ments, but it is not probable the lump can be
removed or a perfect cure affected, but the colt
vill make a fairly useful animal, especially for dill make mork.
2. Very oblique and long pasterns are always
weak. It is a normal conformation and little can be done. Repeated blistering might be fol-
lowed by an improvement.

## Tiscellaneous.

Subscribers are kindly requested to read the conditions at the head of this depa

HARE IN FOAL-FHEDING RATIOIS.

1. I have a mare of about 1,600 pouthds in
pal to a sire of 1,900 poumds. She is eight foal to a sire of 1,900 pounds. She is eight colt. The time of gestation will be in about little signs of emlargement. Have been feeding
her elover har her elover hay and two quarts of groen feeding
three times a day, also a handful of oil cake, oats
night and morning, and some salt at might. Is night and morning, and some salt at night. Is
thire any danger that she will not have enough
milk to supply the oolt? If she does not what milk to supply the colt? If she does not, what 2. Should the rations for dairy cows and fattening steers be the same? I have ensilage, plenty of oat and wheat ohop, and some soil cake.
What would be a balanced ration for each out of my feed ?
2. Is it advisable to feed stock ford which is put up by companies, or will stock do juict as well iif fed oil cake and plenty of salt ? FARMIGR.
Simcoe Co., Ont. Ans.-1. There should be nio danger of her not
milking, if you continue feeding her as described, and give plenty of exercise. Give her some light vork if possible. If she does not prove a good bran as soon as possible
3. As the object in feeding cows and steers is
almost identical, namely, to produce fat, almost identical, namely, to produce fat, the
rations may be somewhat similar. Of late, howrations may be somewhat similar. Of late, how-
ever, theree has been a strong sentiment in favor ever, there has been a strong sentiment in favor
of feeding wider rations than were formerly used
in fattening cattle. In this case it is difficult to in fattening cattle. In this case it is difficult to
determine a balance in the ration, on account of there being no analysis of ripe thres. 3 d clover
hay. We have assumed, however, that it is of about the same composition as pea straw, and
have based our calculations on this assumption. have based our calculations on this assumption.
If bran cannot be had conveniently, thirty pounds
of ensilage, fifteen pounds of clover, four pounds of oat chop, two pounds of wheat chop and two
of oil calke might be priven of oil calke might be given to get a ratio of
$1-6.5$. Where the wheat could be exchanged for 1-6.5. Where the wheat could be exchanged for
bran, we would substitute it for wheat ant"pil
cake making four pounds of oats and four of bran, we would substitute it for wheat and
cake making four pounds of oats and four of
bran, with the roughage. This would be fed to cows each day for every 1,000 pounds live weight: The steers might be fed thirty pounds of the en-
silage, twenty of the hay, two of oats, and one pound each of wheat and oil coake, making a a
poatio of 1 to 7 . As feading proceeds the grain
rauld ratio of 1 to 7 . As feeding proceeds the grain
should be increased up to eight or ten pounds. tind

## mant guleries.

Is it a good practice to bury dead animals in an orchard, such animals as an old horse that mals? profitable a business as the Chinees-American believe? Would you consider it wise to attempt
to raise it in this country for commercial purposes ?
3. We clover seed raisod in Canaida is exported to in price. Is this true? What is the difference where could one obtain first-class, reliable clover seed? 4 4. Is swamp muck or marah mud in any way
benefited by composting with lime alone? If so what proportion of lime should be used, and how long should it remain in compost belore applying
to the land?
P. E. I.

Ans.-1. In burying such animals, many of the roots of the trees would be broken, thus retarding anirmal would furnith mity be thint the decaynot injure causing excessivie growth. It would 2. We do not know what repiresentations have been maide by this company. The growing of ginseng hat been carried on quite extensively on parts of Caneld it is grown on a amall scale. It requires special treatmont and soil conditions, and unless one were prepared to furnish these it could on a small scalo.
on a smail scalo.
3. As a geneiral rule, the best clover seed is
exported.
It costs no more for freight than exported. It coests no, miore for freight than
cheaper grades, and sells better on the foreign charikets. TThe difference in petrice dopends largely apon the local dealer. In the open market there dollar. By applying to a reliable cents toedsman one the best export seed, you would probably get the 4. Generally, mu acidity which is muck has a certain amount of the soil. By composting the muck with lime, the partial decay, thus hurrying the process that takes place in the soil. When comprocting that lime, use about ton bushels of freeth slacked lime to one hundred of muck, The two are laid in course of four or five summer months, at the end of which time the complost is ready for use. Wood eohes greatly improves this mixture.
sherp induring orops.
We are having some difficulty with our neighsuippose the case to be our follows: A. We wi adjoining farm from $\mathbf{B}$.; $\mathbf{O}$., the present tenant, aas posisession until the first of April. A. hald cilling privileges as soon as last harvest was feall grain. C., of course, has the privilege of keeping his stock at B's barn until the first of April, but he is allowing his sheep to come into sheep are doing considerable damage by eating off the grain, also injuring it by tramping on soft days. C's sheep also come over a lawful fence of $\mathrm{A}^{\prime}$ s and do similar damage. The sheep appear in getting over A's fence.

1. What steps should A. take ? on A's fall grain on the rented praperty ?
2. Can A. legally impound C's sheep ?
3. Can A. legally impound C's sheep ?
4. Can A. make C. house his sheep ?

Ans. -1 and 3.-A. should warn C. against trespass on his, A's farm, by C's sheep coming tual, impound the sheep, which he is legally en
titled to do. 2. Perhaps not; but as the case is stated we are uaable to see that he is under any legal
obligation to A. to keep them off. It would rather seem that if the grain is to be protected ranging to have A. must see to it himself, by ar-
the field. ranging
the field.
piskehirion colors.
Is there any standard oolor for pure-bred
Percheron stallions? Is a black as pure bred as
the the gray? Should his legs be free from hai
or like a Clydesdale's? Peterboro Co., Ont,
Ans.-Pure-bred Percherons may be either
black or gray. We do not know that there is any standard of color for the breed, but we know that some of the best are black and some of the
best are gray, and that the blacks are now quite
as much in favor as the grays. The most ap-
proved have little, if any, long hair on back of
legs.
A. and B. own fencone disputes.
A. and B. own farms joining, 100 rods of line
ance running between. A. builds north 50 rold lence running between. A. builds north 50 rous of his farm to C., keeping 10, and builds the 20 ods of line fence himself. 1. Can B. force C. to build 40 rods of the re-
maining 80 , making him take 10 rolls of maining 80 , 2. Supposing the 10 rods is a poor fence,
must B. supply rails enough to build it ? 3. Or must C. take what rails there is there and build from them, supplying more if he does Ans.-The facts are not stated with sufficient clearness and fulness to enable us to answer your questions. Rut we may say that if you are un-
able to agree with your neighbors regarding these able to agree with your neighbors regarding these
matters of line fencing, you should talke advanlage of the provisions in that belhalf contained in the Line Fences Act (R.S.O. 1897, C. 234). Your first step thereunder would be to notity the
other owners that you would, after one week from the service of the notice, cause three fencelviewers of the Tocality to arbitrate in the premises (Sec. 4). This might of itseelf tend to bring about an agreement between you, antd by Sec. 14, any
agreement in writing (Form 4) between owners respecting such line fence, may be filed or registered and enforoed as if it were an awarth of fenceViewers. A short form of agneement (the Form 4
referred to) is to be found in the schedple to Act. warbles-ifiokive ox. 1. Is it possible to destroy warbles or embryo of
same in cattile by feeding fower, of tulphur or some chemical in food, without injuring cattle?
2. How much sulphar is necessary to destroy vermin 3. Young ox was trained to kick by children of neighbor, from whom I got him, by tickling his heels
with a fork. Is a fin beast to out of stable, except that he frequently kicke one over tongue of slefgh. Khat hets forward out of stable and backwards in stable. Takes periodic turns of
Hecking. Will not punishment on legs for kicking make Elicking. Will not punishment on logs for kicking make
him 'worse? Please suggest a remedy which' will prove ofiectual, if possible. Mrove enectual, if
Ans.-1. District.
Ans.-1. No.
sulfocate the lice ; they into the air channels and so oug. As the kicking spells are periodic, we canno suggest any remedy, except always giving good treat and never abusing him.

OROPS FOR HOG iPASTURE
Which is considered best for hog pasture, rape,
lucorne or vetches? Are any of them good for cattle feeding, and when should they be cut pood Car-lucerne or vetches be cut same year as sown ? Do hogs do
well on pasture with little other feed? well on pasture with little other feed?
Ans.-It our corrempondent had all these crope s would have an ideal hog pasture. The lucerne would be ready for eariy fummer pasture, the vetches for July, the second crop of lucerne for August, and the well on the same crops, although the rape Cattle do taints the milk of cows. The vetches are cut same year as sown, just like peas; but lucerna requires grain crop, but if'sown alone early in spring, which is grain crop, but if sown alone early in spring, which is
decidedly the better plan, may. be cut the same season. The second season it may be cut three times. By changing hogs about from one of these crops to the ing period, say the last six weeks before marketing when more concentrated food should be given. Would you kindly Pasture,
Would make a good pive me some advice as to what would make a good pig pasture for coming summer ? I have about en acre of ground near my pen that
have grown roots on for two seasons and would like to sow something on it so that my pigs can graze for
part of their living.
SUBSCRIBER. Ans.--Peas, oats and vetches on one-half the plot, and rape, sown at different dates, on the remainder
would give green food from the middle of June unti roots were ready for feeding. Rape might be "sown on the 1st and 15 h of June and 1st of July. The and carry them to the hogs, but Hf kept short' by
pasturing pasturing or mowing will give good results. By sow-
ing alfalfa with the grain a catch might be secured, hereby providing a crop for the succeeding year. For alfalfa when once established.
What duty on imported horses.
What is the rate of timport duty on horses from
canada to the States, and how far is Chatham and i.ondon trom Detrote?
Michigan
U. Ans. - The duty on Canadian horses entering the stock, over that valuation $25 \%$ ad valorem. Pure-bred stock for breeding purposes, registered in offcially
recognized U. . records, passes into the States free
of duty. Chatham is forty-slx miles from Detroit,

## 

1. Is buttermilk, good for ohickens as a drink and to mix with chop feed for them?

Could it be fed the same as skim milk
Is it as good as skim milk?
. Is it as good as skim milk
until they get about three weeks young cirickens
5. Could five ole hens take care of the chick ens from a 150-egg incubator as well as a Kent Co., Ont.
Ans.-1. It is frequantly used,
2. Yes.
2. Yes.
3. There is not much difference unless the
skim milk is always sweet, and then it is most kim milk
4. First feed to young ohicks should consist of hard-boiled eggs, one part to three parts of dry
bread crumbs. Them for five or six weeks feed coarse oatmeal, moistened with skim milk, with any breatd crumbs alternating every two hours About four o'clock each evening feed a little
cracked wheat. Give green food often, and a litle meat food occasiomally. 5 . Yes, if the weather
about 10 or 12 chiciss to a hen in cold weather and 15 to 18 when warmer.

CEMENT VENERER

1. I have a house which is lathed and plastered How would it do to take off the clap-bioards and fill in with concrete, having the cement extend about two inches beyond the studding.
2 . How much cement will it take for 800 feet of face measure, six inches thick, and how much of face measure, six inches thick,
will it cost? Gravel is plentifut.
2. What do Jou think was the matter wilh ould not hold up their heads or stand up. I another one died a few hours afterwards. W. W.
Huron Co.

Ans.-1. It would be a good plan, banies advertising in this journilal they would give you the most accurate estimates. 3. We cannot tell by your description what was the matter with your sheep. Be sure they are not too fat, or constipated. See that they
AMOUNT AND VAI
amount and value or megilage in silo. I shall be greatly obliged to you if you can paper a fair and acurate rule for estimating amormt and value of silage in bulk. $\quad$.
Ans. - Much det

Ans.- Much depends upon the depth of the silo. the silo will weigh much more than that taken at the top. Generally speaking, thirty pounds per cubic foot is a fair estimate of the amount of ensilage in has been estimated at about $\$ 1.75$ per ton; under Ontario conditions this includes
cost of preparation of the land, cultivation, rent for land, cutting and harvesting. The value for
feed of course depends upion local conditions; the stage of maturity of the corn, and the prices of other feeding stuffs.
preserving fence posts.
Can you give a method of treating cedar posts
to make them more durable ? It will be of interest to a great many of yotur readers. I am
engaged in the Page fence bbusiness, and would like to khow if there is any way of malking cedar posts last a natural lifetime; also I intend putting up foot bridges across rivers with Page
fencing; the anchorage will be cedar, buried six feet deep in the wet mud at side of river. What
I would like to know is, is there any known process to prevent cedar from rotting in such a
place? Huron Co., Ont.
Ans.-Coal tar is one of the best materials for
overing wood to increase its durability. Three covering wood to increase its durability. Three
parts of coal tar to one of unsalled grease makes whitewash is also good buld be applied hot. Lime whitewash is also good, but the parts
dry when the preservatives are applied.
sowing Alifalifa.

1. I want to sow firteen acres of alfalfa, eight for
pasture and seven for hay. What would be the best spring crop to sow it in? How much shall I sow per
acre? Would you advise mixing any other seed with that sown for pasture?
2. My land is clay loam, well drained : do you think
H. R. R. Kent Co., Ont.
Ans.-1. Barley has always proven the best nurse Ans.-1. Barley has always proven the best nurse
crop for aifalfa, although we have seen good catches
with oats when the season was favorable. Sow the with oats when the season was favorable. Sow the
urse crop thinly. Most people advise sowing ulfalfa
adone, and thus sown early it may be cut once the samme alone, and thus sown early it may be cut once the sare
season. If the seed is pure and vital, from 15 to 20 season. If the seed is pure and vital, from 15 to 20
lbs. per acre will give a good catch. Timothy, or
better, orchard grass, milght improve the field for asture, but we would not advise any mixture.
3. The chief trouble with spelt is its weaknes 2. The chief trouble with spelt is its weakne
straw, otherwise it should do well on your soil.

## 1. TREE SEEDS-BEREKEEPING.

1. When do elm and white ash seeds get ripe?
2. When is the time to plant them, and in what When is the
3. What kind of bees are the best for a farme
to keep ? clover ? ? kind yau prefer; do they work in red 5 . How do you make the best kind of bee
hive? hive ?
Kent Co., Ont.
Ans.-1. The seeds of elm ripen in early sum-
mer, May or June, and white ash in autump. ner, May or June, and white ash in autump. oxception of slippery elm, which must be kept in a cool, not too dry, place, until the following
spring. In propagating any tree or shrub, try natural as possible.
4. A farmer going into beekeeping should get ing good work, as these will by that hias been doing good work, as these will be accustomed to the proved queens can be bought.
5. None of the
to any extent, owing to their work in red clover to any extent, owing to their tongues being too
short to reach he nectar.
5 . Make the 5. Make the hives out of dressed cedar, 12 inches wide. Fit the corners tightly. cedar, 12 good sound bottom board, easily detached, that
projects abbut two inches projects abbut two inches on the front end. On deep by one-half inch wide should be made to rest the shoulders of the foutdations upom without kolding up the tolp. On top of this hive one or
more stories may be placed during the honey flow, the supers being made like the thive honey without any bottom. Any kind of a board will serve as a top. The entrance should be about Have the hive just wide the width of the hive. tion that will fit your extractor. This is a doscription of the simplest kind of hive, amd is very satiskactory with farmers, of course you can build more elaborate hives if you wish, blut we beekeeping and want something simple.
orimson olover.
Would you give ine some information in regard to
crimson clover? I would like to know: (1) Time and ziethod of planting. (2) Does it yield good haye and mhat is an average yleld per acre? (8) Does it seed In Ontario, and, if so, what is the yield? Any further information that you may be able to give will be
thankfully received.
A. R. McFR. Eilgin Co., Ont.
Ans,-Crimson clover is one, of the most tender of the legumes. It is grown in Southern Ontario as a
cover crop in garclens and orchards, and is used to cover crop in gardens and orchards, and is used to
enrich soils after eariy crops have been taken oll. It is estimated that an average crop adds as much as $\$ 20$ worth of nitrogen per acre to the soill, and where there is a crop of two tons to the acre there will be
four tons of rootai left fin the ground. It is four tons of roots left im the ground. It is
sown in orchards in July, after cultivation hown in ceased, and alo on corn land. It is fre-
huently used after buckwheat to build up a poor soil. It is seldom harvested as a hay crop, and cannot be expected to live over winter. Its greatest value is as
a cover crop and for plowing down on light soils. It a cover crop and for plowing down on fight solis. and keeps down weeds in the fall. We have not known seed to be harvested in Ontario. Some Nlagara district fruit-growers let the seed ripen, mow the crop,
removing the hay to other portions of the ofchard, reattering on the land and disking in to seed that portion, while enough seed is threshed out in the PEA WEEVIL.
Would you kindly let us know the cure or preven-
of pea weevil? tion of pea wevil?
Victoria Co., Ont.
Ans.-Put the peas as soon as threshed in a tight containing carbon bisulphide on top of the grain, and cover from difusing prevent the gas which will be carbon bisulphide quickly vaporizes, and the vapor, being heavier than air, settles through the peas, poison-
ing the bugs. A pound of the liquid should do 20 bushels of the peas. Lanterns or matches should not
be used when the gas is in the granary, as it is very be used whive.
explosive

## english plantain.

I have a field seeded with clover that is also badly
infested with English plantain. How should I treat ${ }^{\text {it }}$ ? Middlesex Co., Ont.
Midalessex Co., Ont.
Ans.-Cut the clover early, and if spilkes of the plantain are found, plow the land shallow and cultivary for wheat or spring crop. The weed has not cut for seed. OEIIENT FLOORS,
Would be pleased to know what thickness cement hoors are made in stables.
Mns.-For alleys two fnches, cattle stable three inches, and horse stables four inches. See Ju
issue, 1902, and also March 2nd lisue, 1903 .
training for tere track
Can you recommend any good book on train
ing, feeding and driving the race (harness) hol ing, feeding and driving the race (harness) horse y in the pacer, and am anxious to get informa tion regarding their training for a race. 'SPEED.
Wentworth Co. Ont Wentworth Co., Ont.
Ans. - "Ed. Geers'
Ans.- 'Hd. Geers' experience with trotters and your purpose. The book, in cloth cover, can bo haid through this omice on recoipt of the price
$\$ 2.00$. [For
or continuation of this department, see page 279. Subscribers are kindly requested to read the woriting or mailing their enquiries,

## NOTES AND NEWS.

## Forestry Association.

## The Canadian Forestry Association's annual meot-

 of but recent orgentiation, and diening. ${ }^{\text {eth }}$. Bethe Nith a queetion which Canadians, up to the past fown yeara, have needed to give but little concern, the gsooof ite meetinge very largely attonded. The ouldent and ever-indreasing importance of the worl of the Association and the foresight and deliberation whlehthey ahow in planning and carrying out their work they show in planning and carrying out thelr work it will be a very infuential association. As mate
pointed out by Prof. Goodwia, of Quebn's Univeraity pointed out by Prof. Goodwis, of Cueenn's Univerality, our forest resourcos are yeari, depreciating in value,
mamaly because the people concerned ere not edveated to the neccesenty of conserving the, forest resources. becoming more valuable, due to intelligent handling Our future supply of lumber depends nargoly mpol worth. mediate action, and an organizod ssstem of foreotry will most quickly sathefactorily arrange proseht condt organized in expected that the courses soon to to Universitities will connection with Toronto and Quean'o Universities will do a good work in more widdely die-
seminaming an interest in our forest wealth. An oncouraging feature of the sonvention wae the fitiorest that is being manifeited by leeting lumbermsn. It tm
to these that we muat largely look for protection
 than any other single infuence, Mr. 8, P. Stevenson,
of Neison, gave a useful paper on "Forestry Wort in
Manitobe." The Aseocietion passed a resolution Manitoba." The Association pesed a resolution
urging on the Goversment the need of greater protice-
tion urging on the Goverrment the need of greater protec-
tion from forset fres, the exploration of unnetica land to decide whether or not it was sultable for acrlcultural purposes, and that those unift be docined the settlement of alsolated the lota.
The following omicora were elected: Patron, Lord
 Diram Robinson, Ottawa : V. P. Aubrey Whitc, ors-Dr. Saunders, Prof. Jos, Macoun, Thos, SonthJorth, J. Lotbinere. Booth, O. J. Booth, J. Bortram, E. Gf A Railway Commission and a Transporation Comimission.
10th, it Whesech annoum the Throne, at ottawa, on Mareh duced this seeston providing for the formation of a commiasion to inquire into and report ipen of a portation question and the terminal feclition in Canada. It will probably consist of three membere. One
will be a railway expert, and the steamehip and mer will be a railway expert, and tho stoamehip and perr cantile interests also will each have a representetive, the railway expert, and that he will be chairman of the commitesion. The othet two membere wifl bo mor in whose experience, lnowledge and wiedom the public
will h have confidence. Inquiry will be made best means of providing apeedy transportation to the seaboird, and of promptly handling our profucte. eepecially grain, when they reach the Canadian torminals. The conumission will doubtless report as to
the improvements under way at loort Colborne, whith is to be a point of transhipment for grain brought down on the giants which navigate the upper lakew, and they will probably also give some attention to the question
of whether the depth of the canals is the growing demands of the grain export trade. No
time. will be lost in appointing the commision and

## getting it under way. That Big Beef Merger.

A few months ago, the elty papera, told the Aladdin story of the great. packing-house marger,
Ananced by Mr. J. Pierpont Morgan. A Migh author: ity, speaking on the subfoct, not long stace, sate:
"The government mildly estifantes the clepital " The government mildly estimates the chpital in-
vested in the 1,000 abottoirs in the United States at vested in the 1,000 abattoirs in the United States at
$\$ 186,000,000$. The operating capital would be much larger. The value of the sheep, alone, killed each yoer is $\$ 220,000,000$. On a rough eatimate, it would ro
quire $\$ 2,000,000,000$ to control the ive anid dead quire $\$ 2,000,000,000$ to control the Hive and dead the mere control. There would still be room for large
opposition." No : it's a little too blg for even ilr. opposition
Morgan.

## P. E. Island.

 somowhat of a storiny month-10ts of mow and rathe
poor travelling. But wo like to see the felds well

 the dev. Great quantities of this fertilizer is boing Cerried into the center of the county on the rallionod So givin wuot, and still the demand is not hail satio lod. Thit natural fertilitar has now boon very largely hire lor ovep forty years, and continues to giv

 cheosemnking and milk-teotimg eontrinued for two weeks.
Theor wais a large attendance from among the cheose mitere at our be colity thations. The eschoon tis under
 and Provinclal Governmente. W. S. Blair. Horticil.

 outtor of oulth ot grase and clover soods. Last scar, of foul woede. Mueterra, one of the worst, got a

 the agticuitural papers, heve roused fermers to dethe chappent. Wo aro hopping for Dominion legitiation Hacruptlouts and amtoneet noed doateras.
Horras ware nevere to sacreo here. There is a strong tehaid for ell litide at good pricen


 aeth hoge are oc., alive, but there are not many w.

## South Peel.

Tho clover threabers aro heving a busy season, here beligg o large amiount of rod clover to thresh. Clover pastured last summer and the second growth
atartad cearly in the seamon io turning out fairivy woll. averading two buahelin per acre. There is a great improvement mado on the clover machines. The blower
attechment to being used th place of the carrier, and
 seloen bring from sis to $\$$ seo. There is plenty of feed more Hve stock to transform thes rail matoflal into the friteted protuct, stch as booe, porr, datry products, otc. Thooe who bought foeders last fall, when they were high in prico, will have to study ecoinomy in
foeding to make ends meet, as the trade in beef cattie hase taken a drop
Many horses elett this part lately for use in the
elty. whil some wero shipped to the Northwest for
 quite a n number of houses empty, simply because the
young men who own them think that they sould young men who own them think that they would
rither have sliggle lite than to take all the responsibiltites that would come on their shoulders on beconyoung patriotic Canadlan who has the wellare of kis country at heart should not act so selfah. He should
take avvice from the words of the prophet., those words that are familiar to all: "It is not well for

## Central Canada Exhibition.

The dirrectors of the Central Canada Exhibition
mave changed the date of the annual exxibition have changed the date of the annual exhibition from
the mast week in August to September 11 th to 18 th It will now come inmuediately apter Toronto, and will run concurrently with London. The change in date
was due to the efforts of a great number oter Was due to the efforts of a great number of farmers
and bustiness men who clatimed that August was too early for this part of the Province, as was indeed
shown by last year's show. It is not expected that she London show will make any appreciable draft ol
 tew who exhhit at both places. The increaso in in
the
number of local exhbits, due to the later date, will umdoubtedly more than compensate for the loss that may be incurree
fessfonal exhbbltore

Farmers' Institnte Specialist.
In order to bring the U. S. Departnient. of Arri-
culture Into closer touch with the Farmers' Instituto

## Oxford County.

COUNTRY Horse trade
There has been quite a lively trade in horses in this district. Many farmers have been selling their teams that were getting up in years, say trom 8 to 10 years, and buying three-year-old colts. But some torily. Three-jear-old colts of the right build have fold from $\$ 150$ up; parties who were looking for three-sear-old colts say that at every farm they callec at several parties had boen there before them on the same arrand. This plan of salling horses before they bol nes, is perthape the most profitible way tor the trm er, but we often feel sorry to part with a t them that coits us in every way; we get atteched to them. Is we keen them untll they are 12 or 14 years of aee they deteriorate very fast, in market value at least. A great many mares wero bred last season, and in course of time horrees will not be guite so scarce. In the meantime, those who have them to sell are " in clover."
an nelgibors had a mare in foal, and as she nad not been out for several days, he turned her our for laxeroise, sho jumpod and played around The yard very Hively for a time, and next mornhing a dead colt was lying behind her
fn the stable. Wo turned our driver out ind the yerd to pley after several days of idiloness; ho
 ator Everal days' confinement is not good, especially
for a young horse: far tafler to hitch up and dirive ror
out.
Soveral farners have been troubled with lice or their cattle thio winter. If some mheop dip or kerogo into theolr pownder is applised shortly aitor the cattlo
 sulte dilimult to got rid of them. I profer dry insoct powder in cold woather, as the animals are very apt
to got cold aftor an application of any liquid prepara-

## stock ferding

Young calvos learn to eat sooner when thes are cettle eating.
Cattle are doing very well this winter, there are so
many roots to meny roots to food to them. People many say as they
likeo, but roots are the " clear thing " for cattle keap them healthy and hearty. Our cattor catt straw
as as greedily as they ordinarily would eat hay. of
course, the straw is good and well saved. were what is here considered a great crop. I I think our turnips would run about 38 tons per acre, but
notico from Bull varioty at the experimental plot at ottawa gave yleld, of nearly 54 tons. They must have been
" whoppera.. "whoppers.". A farmer in Scotiand, wishing to get wonderful crop of turnips he had, told that it only took five turnips to make a cartload-one in each corher and one in the center to keep the others from roll-
ing. But $I$ further notice in the buletin that phen omenally large yield was obtained by sowing this May only yielded while the plot sown on the 26 th of know the frrat sown would naturally be coarse and woody, and ours, which were not sown until nearly
the middle of June, were likely a much better quality than either of the oitawa experimetal lote. Moral : Get the ground ready for turnips as soon as possible
nod keep it stirred, but don't sow until about the and keep it stirred, but don't
middle of June In our latitude.
wod and ends
Wo have been busy getting our year's supply of
firewood, and are spreading the manure on the fields
an名 18 do yet, and must have part of a day's thresting ed up and well oilled and repaired, and everything in
readiness for spring.

> The Telephone Monopoly.

As the readers of the "Farmer's Advocate" are
aware, the effort of the promoters of the Markham and
Pickering. Ont Pickering, ont... farmers
priviege tele of onone tine to oubtion the the priviege of puting an instrument in the Locust Hill
C. P. R. station was blocked, but it brought to light on agreement by which the C. P. R. had entered into
n agrement an agreement granting the Bell Telephone Co. the ex-
clusive priviege of using their stations on condition
of their givivg the C. P. R. Iree service. Action nder the Criminhal Code was taken agringe the Telion Phone (io by the farmers, the monopoly bing regarded
aspon Ituerference with the course of public business.
and
 the prosection to the btter end Munictpal tele
phone aysums aro also suggested, or purblic ownership
of the whole or the whole telephone system, to be run os is thie

The Waters and Nockett Shorthorn Sale, The auction sale, on February 26th, of the herd of Mrs. Waters and a contribution from that of Mr. John Sockett, of Rock wood, Ont., was quite successeful and satisfactory to the seliers, the 21 females sold. averaging $\mathbf{\$ 1 1 5}^{115}$. The three young bulls catalogued were not up to a high standand, and cild not furd auctionen, largo company was present. The popular avineer, Mr. Mos. Mgram, of Guelph, handed the the result by the mellers and and was complimented on the result by
Claret, 3 years, and call ; E. B. Battye, Gore Bay. 823 Circe, a years, and calf; Alex. Tupling, Honey-
Nell's Duchess sth, 4 years, and catt; Jno. .w..... 18 Cook, Marmora
Noll's Datay, 2 years; Jas. A. Watson, Eden Millis... 14 Nell's Duchess, 5 years; Geo. Fraser, IITinnedose
Iris sth, 3 years ; W. Agnow, Lowville Carnation, 5 years, and calf ; R. M. Mortimer,
 Orange Bloseom, 8 years, and calt ; E. B. .rat ye. ${ }^{135}$
Nell of Ankell 8 th, 9 years, and calt; Henry Arkell), Iris Arkell .................................................. 12
 Frances. 2 years ; Geo. Fraser...................... 110
Alexandria, $2 \cdot$ years ; Wm. Parkinson, Eramoso.. 105 Nell's Daisy 2nd, 2 years; Geo. Fraser.............. 100 Eurtha's Pet, 2 Yoers : Wm. Parkinson Vlictorine, 2 years ; Wm. Agnew.......................... 90 Nell's Arkell 2nd, 11 years; Geo., Armstronggy




## South Perth

Since last report, wo have had a plentiful fall of snow, which has lain on the ground fairls woll, prolecting the wheat and young clover. Up till this last weok, the weether has also been remarkably mild for ebruang and from these owo taications wo merer that the outlook lor the cliver and wheat crops next year quite promising. This tact, we think, is of no small mportar, af it opte tho inroads of stock-raising. and upon the estapee product or the averago tarri; feetilizors, depends ultimately the fertility of our soil and of these green-manuring crops, clover still holda first place.
There is
nen, owing to the bil nen, owing to the big slump in the price of tat cettle. was on last fall, and are now suffering the inevititable consequences. The prospects for butter and cheose are mach petter than for beef; ; but the extreme scarcity dalrying to stock-raising Our cheess factorieo
eason, and will doublless be sitro very succeosiul the big creamery next summer. With cheesest at 10c and buttor 20c., there are many who prefer the former, because they get a bigger lump of cash for
 on skim milk calves which looked as well as any fod 4.red up ", wilk, but they were being constantly "doc Society it it annual meeting of the South Perth Agr. Society, it was declded not to send delegates to the
meeting of the Faira and Exhibition meeting of the Fairs and Exxibition Assoctation in
Toronto, as it was folt that the cirout eas Toronto, as it was felt that the circuit feir idee would
in time work disaster to the to
 cess. It is a good idea, and, like other mose mucgeneral favors ${ }^{\prime}$ benefit, will no doubt yet movement
The institutes were well a attended this year, and at
several places in the several places in the Riding, Women's Institutes wer
organized, but with what measure of success it is yel organized, but with what measure of success it is yel
too early to anticipate.
On the ore early to anticipate. on the whole, prospect
ore bright for agriculture during the coming year.
H. B.

## A Grain Shocker.

From Nebraska comes the report of a grain stooker the device that it will stook grain as tightly as can be
done by hand.
Sereral
firms have investigated the some ofers to the inventor to introd made hand watched with interest by all countries where whll beg

## Foot-and-Mouth Disease.

 husetts being found affected with the disease.

MARCH 16. 1903
Hessrib: Hartman's Shorthorn Sale. The dispersion sale by auction, on February 24th of the small but choice Shorthorn herd of Messrs.
J. W. Hartman \& Sons, Flmhedge, near Meatord County, Ontario. was very largely attended by farmer county, Ontario. was very largely attended by farmer
from the surrounting district and breeders from many sections of the Province. The cattle were nicely bred
and in excellent condition. Capt. T. E. Robson, and in excellent condition. Capt. T. E. Robson,
1lderton, offciated as auctioneer in his usual happy style. The bidding was brisk, and the prices very satisfactory to the sellers, while the buyers got good value for their money. The highest price, $\$ 320$, wa paid for Nonpareil 61st, a red threo-year-old cow with
calf at foot by Imp. Stephen Fitz Forrester. She was bred by J. \& W. Kussell, Richmond Hill, and bought by Mr. J. Bowes, Strathnairn. Mr. Harry
Smith, Exeter, took the red five-year-old Ury cow. Smith, Exeter, took the red five-year-old Ury cow.
Tellie R., with call at foot by the Watt-bred buil, May Duke, at $\$ 275$, and the red six-year-old bull, cow, Marjorie, by Imp. Blue Ribbon, with calf by her side, at $\$ 250$, and Mr. N. Dow, Tara. took Effel 2nd, a red four-pear-old Wry cow, at $\$ \mathbf{3 2 5 0}$. A pleasing
icature of the sale was the good prices bid for bill cature of the sale was the good prices bid for bulls,
the four sold making an average of close to $\$ 160$, while the average for the whole herd was $\$ 170$. The aged roan buil, Abbotsford, bred by Hlarry Smith, a oted prizewinner and breeder, now in his ten-year-old
orr., looking fresh and vigorous, brought $\$ 225$, and forr., looking fresh and vigorous, brought \$225, and
fell to the bid of Mr. W. G. Millson, of Goring, Ont. The total of $\$ 4,270$ for 25 head ought to be conidered very sutisfactory.
Following is the sale list, with purchasers Cows and Heifers.
Konpareil 81st, $\mathbf{3}$ years, J. Bowes, Strathnairn... $\mathbf{5 3 2 0}$ Nellie K., 5 years : Harry. Smith, Exeter.. $\begin{array}{ll}\text { Marjorie, } 6 \text { years ; Harry Smith. } \\ \text { Eifel 2nd, } 4 \text { years; } & \text { N. Dow, Tara }\end{array}$
 Caledonia …….......................................... St. Vincent Belle, 7 years ; R. T. Clute, Toronto.
Mina. Iass. 5th, 10 months ; R. D. Bowes, Elmhedge ........................................................ y.........

 Mabel, 10 years, and caif ; D. Mils, Bay View... 160
Ury Maid, 10 months $\quad$ Hudson Usher, Queenston. 150 lara, 3 years ; Thos. Bristow, Rob Roy............ 140 Mina H., 5 years; Robt. Ratty, Maaford............. tawa .......................................er,'s...... 140 lora May, 2 years; W. Douglas......................... innie May 2nd, 1 year; A. W. Hough, Meaford lara2nd, 11 months : J. Conn, Heathc


## Bulls.

Kbbotsford, 10 years; W. G. Millson...
uke of Colonus, 1 year ; H. Heisie, Thornbury. 155 Royal Geonge, 1 year ; H. Fulford. Thornbury... 130 21 females sold for $\$ 3,640$, average $\$ 173.50$.


## Canadian Horse Show.

The executive committee of the Canadian Horse Show have decided to make some alterations in and additions to their 1903 prize list. The height of pairs
of harness horses will be 15 hands 24 inches, instead of 5 hands 3 inches, as previously decided. In the
hunter events two additional classes are added to the unter events two additional classes are added to the
beavy and middle weights and a special class is added to the lightweights. The lady's hunter class will
again be a feature of the show. The special clesses again be a feature of the show. The special clesses are for livery team, delivery wagon single horse.
butcher's cart horse, four-year-old Canadian-bred mare or gelding suitabie for riding or cavalry purposes, over
15 hands and under 15 hands 3 inches.
Horse and runabout, mare or gelding, mare or gelding suitable for lady to drive, and team of harses to be shown
lhefore a T cart, mail, demi-mail, Stanhope or spider uhaeton. There will be no classes for Clydes or Shires this year, as the Spring Stallion Show catered to the
interests of the heavy horses. April 29th and Both and May 1st and 2nd are the dates fixed for the show and May 1st and 2nd are the dates fixed for the show,
which will be held as usual at the Armories, Toronto.

Annandale Stock Sale.
The sale, on the E. D. Tillson estate, of the Annan-
dale dairy herd caime off as advertised, on March 5th. Never before in Canada was so large a herd of dairy cattle offered in a single sale, the total number to go
under the hammer being 121 . This included bulls, cows and young stock, thirty-one of the number being
pure-bred Holoteins. The longest price paid was $\$ 125$, by Velson Clemment, for Annandale Queen. This
cow has a milk record of $7,616 \mathrm{lbs}$. milk in 10 months, the old cows and calves tending to pull the average
nown. The bididing ons the grade cows was very brist down. The btaditig on
and ranged about $\$ 80$ (nd ranged about $\$ 80$. It ls now the intention of the propriet
estate to go into the breeding of beef cattle.

## THE FARMER'S ADVOCATE.

## Live Stock at St. Louis.

At the large and representative joint mieeting of roonth, the unanimous sentiment was thet Canadian Etude, herds and flocks should be strongly represented it the St. Louis Fair in 1904, in order to advertiso country and a conter for the breeding and dovelopment of high-class breeding stock unsurpassed in thriftiness and constitutional vigor. The meoting above relerred clared: "We teal thet the areding of ourbed de mals is one of the most important industries in Can ada, and that the Governmient of the Dominion should maike liberal grants to pay the expenses of such an oxhibit and provide a liberal prize list as well. We peensara, and that the exhibit would be a groat advantage, appreciated by Canada." At previous intar-
national exhibilions in the United State the grant national exhibilions in the United States the grant
for an exhibitlon of live stookk made by the Dominion Gor an extibition on live stoolk made by the Dominion
Government had been mainily enjoged by ontario. The Other Provitces are now becoming 'alive to their opportunities, and the intention is, if posibile, to exhibit cluiding the sturdy live stock from the western ranges. Arrangements are, we understand, beling mede for the visit of an infuential deputation, to Ottawa to repro-
tent to the Government the importance of providing ent to the Government the importance of providing
liberally and early for an adeguane displey of our live stock at st. Louis, and It would sispm to pe ouly
 occasion to
provision.

## Porl Paelding Troubles.

Application, has been made by the CampbollShearer Co., of London, Eng., whoso claim is $\$ 20,000$, Packiug co The Bank of Palmeraton, Ont.. Pook or $\$ 38,000$. The comippany was tincorporated in in 1898 . with an authorized capital of $\$ 99,980$ ot this, notes given for $\$ 18.000$.

## Guelph Horse Show.

The Guelph Horse Show Assoiation, recently nit 6, with prizese amounting to $\$ 1,500$. Thio oflcera are: John Mh. Bond, Hon. Preesident: H. Lookwood,

 with a committee of prominent business ren and horred mien.

## MARKETS

## Canadian Hogs in Buffalo.

To the Edttor "Farmer's Advocato"
Sir,-Our market is still takiog Canadian hoge, for a long while to come. Hoge are sanroo th this country, and are seliling high. They sold hert to-dey 87.60, po you can chee our tharket extreme in tine tordey to $\$ 7.60$, so you can see our market io in line with any of
them.
There is every prospect of a good trade in Canadian hogs for a long whilo to come
East Yufalo, March 9 th, 1903 .
EIRICK

## Chicago Harkets.

85 Chicago, March 12.-Cattle-Good to prime steers? $\$ 5$ to $85.75 ;$ poor to prime steera, ${ }^{85}$ to 85.75 ;
poor to medium, 88.50 to $\$ 4.80 ;$ stockers and
 heifiers, $\$ 2.25$ to $\$ 4.60$; cannera, $\$ 1.50$ to 82.50 ;
bulls, $\$ 2$ to $\$ 4.25:$ calves 83 to 85.40 . stors, \$4 to $\$ 4.60$. Hogs-1llized and butchers' 87.30 to 87.65 ; good to cholee henvy, 87.60 to
 Good , bulk of sales at $\$ 7.80$ to $\$ 7.60$. SheopGood chaice wethera, $\$$ mived $\$ 4.25$ to $\$ 5$; native lambs, $\$ 4.75$ to $\$ 7$.

## Buffalo Marikets.

East Buffalo. N. Y... March 12 -Catele-Recoipto
 medium, 87.90 to 88 ; Yorkers, 87.85 to 87.90 $\mathrm{Yigs}, \$ 7.70$ to $87.80 ;$ roughs, 87 to 87.25 ; stags,
$\$ 5.50$ to 86. Sheep and lambs-Western top

 sulls to good, \&3 to 85.50 .

## Iontreal larkets.

Mon treal, March 12--Oferings very light. The best
 Calves, 5oc. to $\$ 2$ each, according to quality.

## Torento Markets.

Western Cattle Market is dull Now that finer weether is approaching, drovers are expecting to see things brighten up and cattle more to have very little effect on the cattle trade

- have vart datile
hiont thipptity optco offerthty. Very tow on oftor, nond prico paid to-day was 94.75 , for load of extra choice export cattle : medium export cuttle, $\mathbf{\$ 3 . 4 0}$ to $\$ 4.25$.

Butchers' Cattle.-A good demand exists for best hutchers' cattle for local diemand. The hotel buisinest of this city wai never so sood. Best butcher cattle, $\$ 8.50$ in quality to export, not so heavy, sold at from $\$ 3.50$ to $\$ 4.40$; one loed only reached $\$ 4.40$ Bedium, $\$ 3.00$ to $\$ 3.75$; canners, $\$ 2.60$. | export |
| :--- |
| 83.50 . bulls sold at $\$ 4.00$ : light bulls $\$ 3.00$ to | ${ }^{3} .50$.

Feoders.-Good demand from tarmers for best short-
eop feoders, at from $\$ 4.00$ to $\$ 4.15$, average 1,000 keep feeders, at from $\$ 4.00$ to $\$ 4.15$, average $\mathbf{1 , 0 0 0}$
ba, ; medium light-welght feeders, at from $\$ 3.60$ to 83.85. ${ }^{\text {Stockers.- Not many on ofler ; no demand from }}$ 3.40 . oft Sheep. The rum of sheep rather light. The trade airly brisk on all oftered, at unchanged prices ; best export ewes at $\$ 4.00$ to $\$ 4.25$; bucks at from $\$ 8.00$
to $\$ 8.50$ per cwt.
 ready sale at from 81.50 to $\$ 5.75$ por evit. On phir
of spring lambs, reared by Mr. I. Skoen, Port Oredit, of spring lambs, rear
old at $\$ 11.00$ each
Milch Cows.-Not many on ofer. All milich cown of good quallty readily mell at from 838,00 to $\$ 56.00$ per head.
Celvee sold et from
83.00

to $\$ 10.00$ per hent. or | trom |
| :---: |
| Ho | Hogs.-Owing to light supplies, the price advationd roem $\$ 0.10$ to $\$ 6.85$, and will surely go to $\$ 6.50$ noext and not above 200 ibs., Itve weight, of cars, unfod or atered. Drovers report a scarcity of hoge ready for and northern districts prodict a greater supply than ever for the ensuing soason.



Wheat.-Red Produos MArker. middle frelghts ;
 $72 \mathrm{c} . \mathrm{to}$ 73c. per buehel ; red-at 72 Hc . ; goose at
from 67 c . to 68 c . in Toronto, No. 3 extre for export, sec. per buishel;
in to 51 c . in Toronto, at trom t1c. to 51e. and 38c. equt; in Toronto at iram silte.
Bran.-City mills sell bran at $\$ 16$ to $\$ 17$ per ton: shortan.-city mins serk brad Hay.-The quality of hay ou ofler is. bad, and prices are away down, from $\$ 3.00$ to $\$ 15.00$ per ton. per ton for shoees.
 Light at $\$ 8.50$ per cwt.; heavy hogs, 88.25 : and
sows at $\$ 6.50$ per cwt. 7.Hides.-No, 1 steers, 8ito. per 1b. ; No. 2 steers, 7 le . por ib. ; hides, 7c. per 1b.; calf skins, selected, 10 c .
per 1 b ; sheep akins, each, 80 c . to $\$ 1.00$; wool. fleece, 16 c. per lb. ; wool, unwashed, 9 kc . per lb . Butier.-Deliveries were liberal at from 20c. to 25 c .
 per dozenn for choice ner-latd eggs.
Cheese.-The market sted
Cheese.-The market steady and unichanged at 13 c .
per $\mathrm{lb}_{\text {Potetoes.-Prices range }}$ from $\$ 1.00$ to $\$ 1.10$ per bag from farmers' wagons ; in car lots, at about
$\$ 1.00$ per bag ; in good supply ; no indication of a rise in price.

There is a good demand for choice dessert apples. Greenings are quoted at $\$ 1.25$ per barrel,
and $S_{\text {plies }}$ at $\$ 2.00$, for choice, unspotted fruit ; 10 loads on offer.
Poultry.-Turkeys are quoted at 19c. per 1b. ; chickens, per pair; at 80 c . to $\$ 1.75$; ducks sold at
18 c. to 20 c . per Ib .; geese from 12c. to 15 e . per Ib .

## British Cattle Markets.

London, March 11 --Live cattle steady at 120 . to
3 j c. per $\mathbf{l b}$. for American steers, dressed wolght
 beof, 9 fe. to 10 e . per 1 b . ; sheep, 14 fe . to 15 fe . per lb ., dreased welght.


Be sure that Luck
Is only Pluck
To do things over and over ;
Courage and Skill,
Patience and Will
Patience and Will,
Are the four leaves of Luck's clover

## Mission of a Mrs.

 trying to remember whether it was a notroo. Ho was

 To the table mod met down to oexanine it. Thero was the
 tural moumbly, and, inat poppuare, Journal,
 Trour mol betior." then furiber of of
then further off. willing. And I an old bechelor "o Mirs. Luther


 Aap, then .he beasitated.
ho avoed thmoment.

 0 andont tho alock
 reading about patent neethboxese and undercruarining. and the nems. of the vilage.
 hemotod hise dreame at tumee. Ho wonderad shat ere was ithe, and be thought of the kind of woman ho
 In imggining how it would aem to have her meot him
 Ho woined dogsoall, trysing hard not to to think d the dimuoteturg oessject. trying hard not to think of
 calinigg very nolghborly. Ho appent his evonings at toea, ho meant to church regularys, and to all Sunda).
 owier for the loter.
Luther was on ane cold, raw day in oarly November that
 glance acrosas the road, the saw a wooran out in the



 sho never finda a word of tault
wooden egs miside it struck with such thor and the hat the cat started In his sleep. suther pois bant


 trom Lettula gantly." "That's too hard work tor as

 No one had beon there, hhtual of her verore for "
 Ho carrien tur tus mome puir of …ns she was ery arthatic monnme "III nover wear 'e
to would make
He tova excuses for seeing her, wnd finally some time in the winter, he asked her, in fear and trembling, if she would be Mrs. Luther wilkins.
So it happened in inttle less than a year the letter tas given to its rightiful owner.
new "Why, It's nothing but, an advertisement of some nomed it. "Let'sk keep it.", seid ,"Luther, softly. "If it hadn't been for that "Yes, welll keep it," said Letitia, blushing.

## Power of a Sweet Voice.

There is no one thing that love so much needs as a sweet voice to tell what it means and feels,
and it is hard to get and keep it in the right tone. One must start in youth it in the right watch night and day, at work and at play to get and keep a voice that shall speak at all times the thoughts of a kind heart. But this is the time when a sharp voice is most apt to be acquitred. Watch your voice day by day as a pearl of great price, for it will be worth more to you
in the days to come than the best pearl hid in in he days to come than the best pearl hid in to a hearth and home. It is to the heart what
light is to the eye. It is light that sings as light is to the eye. It is a light that sings as it will keep in tune through life.

There is no saying to what perfection of succose a man may come who begins with what he
can do, and uses the means at his hand. He malkes a vortex of action, however slight, towards Let a man but lay hold of something-anything and he is on the high road to success, though it may be very long before he can walk comfortably in it.
To be sensitive is to be lovable ; but to carry semsitivene
unlovable.
The one look out, and not in against such a nature is to able to do for other people, not what they migh do for us-that is the keynote of harmony believe, is in the end of little consequence. The only thing of consequence is what we do. The
on sense of the term, cultivate the mind, give vent to the purest affections and noble feelings, and pen not every thought and desire in self. Live in seeking their happiness you will promote your
If you wish to be miserable, you must think
about yourself, about what you want, what yo about yourself, about what you want, what you
like, what respect
people ought to pay you; what people think about you and overything you touch; you will make sin and
misery for yourself out of everything which God misery for yourself out of everything which God
sends you. You will be as wretched as you sends you, You
choose.-Kingsley

It doesn't amount to much to always promise and never perform. Nothing ever attains confhonesty and truth excepting what is attended by Finish every day and be done with it. You absurdities no doubt crept in; forret them soon as you can. To-morrow is a new day; be-
gin it well and serenely, and with too high a gin it well and serenely, and with too high
spirit to be cumbered with your old nonsense This day is all that is good and fair. It is too
dear, with its hopes and invitationc moment on the yesterdays.. Emerson.
Bad luck is not ant to pursue long the man
who is going in the right direction. on is going in the right direct

## Humoroas.

A man left his umbrella in the stand in a hotel
recently with a card bearing the following inseription "This umbrella belongs to a man who can deal a
 Mace a card thus Inscribed? " When Mrs. Parvenu was poor, they used to say "Indexd! What do they sny now ".
"They say she Is a brilliant conversallonalist, Cladye-Did he get on his knees when he proposed

## THE QUIET HOUR

## Counting the Cost.

When God is to be served, the cost we weigh The andons balance, erudging the expense. A thousand lamps from git ted roof may sy Where its poor votaries turn the night to day. And who will blame? But if two tapers shine Apart before some solitary shrine Why wasthis wast ? Mndignantly men say. To God, releasing him from dismal fears, What cost him nothing for an offering!
Unlike to hers, commended while she she
of that true nard which grows in spiky eea
A rich libation on her Saviour's head."
There is in this age a great tendency to make Christianity as easy as possible. Just as we are bribed to buy tea or baking powder by the prizee this congregation or that for the entieed to join provided of course when the no entertainment the easily won disciples are easily lost-and whit is such discipleship worth at any time? Will it stand any strain? It was easy to win the in plause of the crowd the multitudes ware easily induced to follow Christ on Palm Sunday-when His cause was popular and pleasant-but the crowds were just as reaidy to shiout "Crucify !" few days later, when His cause had become unpopular. Let us see the attraction the Master
Himself holds out to those who would follow Himself holds out to those who would follow
Him. St. Luke says that when great maltitudee went with them He turned and said unto them: "If any man come to Me, and hate, not his father, and mother, and wife, and children, and brethren, and sisters, yea, and his own life also, he cannot
be My disciple. And whosoever doth be My disciple. And whosoever doth not bear ciple." He then explained by two parables, that we must count the cost before starting out on His service. It is not only in times of persecution that we must face the necessity of being called to
give up all for our King; only those who hold themselves and all that they have in an hold hand, ready to sacrifice everything if He requires it, can possibly be said to fulfil the hard conditions He requires of a true disciple. The will
may be taken for the deed, as in the case mbraham :- For ". was not Abraham case of justified by works, when he had offered Isaac his son upon the altar?" But let no one think it is an easy thing to follow Him who has solemnly eth not all that he hath, he cannot be My disNow comes the strange fact that it is the very costliness of this service that makes it so attractive. If the Son of God had come to earth and gloriously in a chariot of fire, He would never have won the admiration. of the world.
David refused to
David refused to offer to God that which cost him nothing, and it is certain that a religion
which costs us nothing is a very worthless thing. It is not really attractive, for no one cares even for a game if he can win it without effort. Why do so many boys wish to be soldiers? It is not
the desire to kill, but rather the enthucine the desire to kinc and glorious thing to go forward, in obedience to the word of command, even "into the jaws of death." We don't really want to slide easily and are all attracted hy heroic self theory at least we by a life of self-indulgent luxury. The conductor of a train was once taking up the collection in thurch. When a man failed to put anything on she plate he reached up absent-mindedly for the
bell cord, and said: oT will put you oft this rain if you do not pay your fare." of course it is not always possible to put a contribution on
the plate, but let no one think he can "beat his way" to heaven. God does not need our sacri-hem-and it is well to remember that required times refuses to accepit the gifts offered. In the very beginning of man's history it was so, for
'the Lord had respect unto Abel and to his offering: but unto Cain and to his offering He had not respect. Mon't let us be satisfied with giving
away only the things we have no use for.
don't then give to God a little of what is left. Ho requires the "first"" fruits, and if we present only
the "lact." hing else we han our lives, our money, or anywill accept our offirings? A young man omco aid to a colleper irient. "If I fail in my exam iving in our family? , the church, as we have a shortly. That seems rather like giving the refuse to the Almighty, doesnn't it ?", The words struch home, and the young man did indeed enter tor minstry, but instead of accepting the comfort
soul, to his Master's service among the crowded London tenement houses.
fices must isalites were warned that their sacrifidden to bring anything "blind they were formaimed." The prophet says: "If ye offer or maimed. The prophet says: "If ye offer the bind or sacrifice, is it not evil? And if ye offer
the lame and the sick, is it not evil? Offer it now unto thy governor, will he be pleased with thee, or accept thy person? saith the Lord of hosts.' Don't we Christians often feel perfectly satisfied
to offer worthless sacrifices? It might be well for us to cultivate the spirit of the little girl who kept all her brightest coins for church and S. S. If she had no bright ones she scoured the old coppers until they shone, singing all the tinfe, "The We must count the cost before choosing Christ's service, lest, as He says, we begin and
are not able to finish; but we are forbidden to are not able to finish; but we are forbidien to count the cost when actually offering our gifts.
We must not count the cost of our offerings, for Christ has said : "Let not thy left hand know what thy right hand doeth." It was not Mary who explained that the ointment she poured out so gladly in her Master's honor might have been
sold for more than three hundred pence. Kingsley's sad irony may often have been true of our gifts-don't let it be applicable in the future :

$$
\begin{aligned}
& \text { I whis not good onough for man, } \\
& \text { And so was glven to God." }
\end{aligned}
$$

pope.

## "Thursday."

The way to thoroughly enjoy your dinner, we are told, is to have earned it yourself. Probably these worthy monks will find the fish which is to cause they all went a-fishing on Thursday. That they are enjoying their outing can be plainly seen by a study of thelr' several faces; and why should they not? The artist has brought out delicate shades of character, and has fittingly grouped them. The four kindred spirits watch with keen interest the landing of his prey by the jolly old tied his rod to the stake, sits placilly, by the tied his rod to the stake, sits placidly by the feet, and the monk behind him baiting his hook, but catching no fish; with the monk to the left, with chair tilted backwards, taking his ease without disguise-has each a place in the typical pic-
ture of monastery life across the ocean. Thursday work and healthful play will assuredly result in too good an appetite for a fitting fast on Friday.
H. A. B.


My dear Guests,-
The three best sets of Canadian Hemory Gems Ont.; Miss Marion Lewis, West Flamboro Ont end Miss Mary Ker, Fenwiok, Ont., to whom the prizes are accordingly awarded in order of names three of these did not limit their contest, and Canee of these did not limit their selection to judged. The contriluitors, other than the prize winners, were: Janet E. Waterman, Elsie Ar nold, M. Adelle Kyle, Alberta Bastedo, Maggi Love, Jessie McIntyre, Myrtle Bailey and Sadie [Note from Editor-Many of our most noted Canadian writers were entirely overlooked in thi contest, but, in spite of this, the quotations sent in were of great literary excellence. Among the
authors chosen were: Roberts, Ralph Connior, $G$. authors chosen were: Roberts, Ralph Cohmior, G Sangster, Morton, Brown, Lampman, Stafford, Faton, Duncan C. Scott, Annie Jaok, Seranus and Ethelwyn Wetherald.
Many of the extracts sent were of such length time. The prizewinners will receive their books promptiy, and the editor of the Home Department takes this opportunity of acknowlediging with of these prizes, which are, indeed, well worth striving for.]
A. B.-I hope you will no longer be a stran ger to the Ingle Nook,", Did not your name appear in the "Advocate" in the old puzzle days? and my occupation has always been that of the and my occupation has always been that of the in towns and cities, but much prefer country life.
but one-that was from an admirer four years old. Jessie McI.-Your letter was quite interesting. I should like to visit your Prairie Province. I hope those who were not successfill this time will not be too discouraged to try again. We have

> OUR COMPETITIONS.

Not all of our readers care for essays or memry gems, but the majority or them like some thing in the puzzle line, so this time we will cater Do. you know your alphabet? Here, then, is a chance to test your knowledge. In the following puzzle certain letters are used phonetically, to represent certain words, and three prizes will be awarded for the most correct and neatest sets ple: What two letters name a well-lonown plant? Answer, I V (Ivy).

1. What two letters mean to adorn ?
What three letiters meras one wh

What three letters mean one who hates
What two signity to impatr?
What two mean to surpass?
What two are shabby or worn out ?
What four mean higher, more lofty
What three are excited by malice?
.. What two signify frigid?
What two describe this puzele?
11. What two describe this puzele?
12. What two form a weapon ?
13. What three make a mounnful poem ?
14. What three signify vigorous operation?
14. What three signify vigorous op
16. What two are a transgression of due limilts?
17. What two are overgrown with rushee?
18. What three beget weariness'
20. What three name a book of the Old Tes-

A certain amount of license is allowed in sounding some of the letters, but all are elearly ceived until May 10th. Send all work to Pakenham, to the address given below. This is a very simple contest, and I look for a large number of Ingle Nook Chats, Pakenham, Ont.

Thar bein' nothin' to cultivate in the city, 'M renarked the tarmer, "TWell": "time. the summer boarder whime elt home was noxt door the are volces to be cultivatod, and then we have
"' there
a harrowing time."


## A Wise Adviser.

Mother," said Nettie Small, "I believe that b Mrs. Grahame coming along the road. I expect the is coming here, and the floor isn't clean am sure I never dreamed of any visitor coming t day, and just look at my dress ! I am afrai Grahame will talk:

Dismiss your fears, Nettie," said her mothe (who was busy hooking), "Mrs. Grahame never alks, at least not in the Mrs. Grahame neve Nettie, Mrs. Grahame is a good conacientious toman, in wise counseltor and a faithfut friend There is no deceit about her. If more women less ill-feeling in this respect, there would be Nettie ran upstairs to dress. The door-bel rang, and Mrs. Small warmly welcomed her vis
"Come into the dining-room, Mrs. Grahame and take off your wraps. You can stay the afternoon, can't You Sall, only a little while, for Maud
'No, Mrs. Small has gone to visit a friend. Oh, you are busy long a time. Nearly all the women in the settlement have caught the hooking fever. It is very prevalent during the months of February and
March. I am glad that I am not susceptible to the dfseaso,
"Why,"
in "Why," said Mrs. Small, "don't you believe " No, I don't.
wiser (though some people to, but I heve grown But I learned a lesson when I hooked the last matt, which I shall never forget. I was hooking all alone, for Maud was kept quite busy doing the housework, attonding the poultry, etc., and nicely stamped, and me. it was a lary proud of it. I was anxious to get it finished up early, so I
worked yery hard. Sometimes I was so tired worked yery hard. Sometimes I was so tired one morning I couldn't get out of bed, The doctor was sent for, who pronounced the disease nervous prostration, caused by overwork and lack of outdoor exercise. I was laid up for several unother mat.
"Really, Mrs. Grahame, I am not surprised that you don't believe in hooking, after such a trying experience. It is certainly hard wo feel very tired when night comes
ence. I am certain that mat-hooking is experihealthful occupation for women. Yet many women still persist in breaking down their health, and ing some rag mats to put on the floor. They talk of economy, but I fail to see where the economy comes in. Half-worn garments are cut up, that
with a little mending would last for months, and have known women who actually bought new material to finish up their mats. Worn-out rags are almost useless, for they are hard to hook, and the mats won't last long if they are used. The cuttings from the tailors." "But they are expensiv
Grahame?
sive articles anyway homemade mats are expensive articles anyway. Just figure up the worth spent, which should be better employed. Farm$\mathrm{ers}^{\prime}$ wives and daughters have no time mats. If they have, some more important work is neglected
". Very true, Mrs. Grahame. Nettie does not
Ne in, hooking, either. She would much relieve in hooking, either. She would much prectical literature. But where is she only good " ? " is upstairs, Mrs. 'Grahame, and houldn't wonder if she is reading the 'Advo when she is reading an interesting article. Work just received the 'Advocate' this morning, and
James and the boys all want to read it the minJames and the boys all want to read it the min-
ate it is brought from the offce."
"J Just like our folks, for all the world. There a general rush for it. We subscribe for Ther other magazines, but it is the especial favorite it contains so much profitable and instructive nformation, it is truly a credit to the publishers
My boys laugh when they see me rending the agricultural columns."' "Why, Mrs. Grahame, do yc rally I call the men's department ? ${ }^{\text {yc }} \underset{1}{\text { really read what }}$ I call the men's department? 1 always read the Home Department, and enjoy it very much, but
don't bother reading all about live stock, agricul " 1 lt is the women's business. too, Mrs. Small Farmers' wives and daughters do not read enough
good practical literature. We should encourave ooys take far mond interest in the farm since we have trken the 'Farmer's Advocate ${ }^{\text {' }}$ We con
sider it the best magarine published in Canada.

Isn't the Christmas number something to be proud of and prize highly ?" "Yes, indeed. We were all delighted with it. Such a handsome cover, beautiful engravings, and so many instructive, worten articles
Hook Now, Mrs. Small, take a friend's advice. with plenty of good literature, but don't allow them to read trash. Don't sit leaning over that mat all day long, but go out for an hour or two every day, to enjoy the fresh air and sunshine.
know that we should be Industrious, but we should not work too hard. We should always arrange our work systematically, and take some time overy day for rest, reading, and recreation. It weve pays to violate the laws of nature. We shoul But I must start for home at once; come and se ss soon. Good-bye
"'Thank you for your advice; I am sorry you d-bye, Mrs. Grahame.
Charlō̃tetown, P. E. Tsland.

## THE CHILDREN'S CORNER <br> Growing Up.

We often hear it said that there are no chil dren nowadays; the little ones are so clever (or
think they are), and loarn such a quantity of things at school, that they seem quite grown-u ong before they get into their teens. Now, it is not very wise to grow up too fast. Perhaps yo early in the morning are conceited all the fore noon and stupid all the arternoon." I hnow that people who live on a farm will be shocked
that saying, but whether it is true or not it is certainly true that the children who insist on growing up too soon, and who look down on their elders, are conceited all the forenoon of fiternoon of life tooty for as they feel sure they all the more than anyone else, they soon give up trying to Sometimes they like a stagnant pool of water, Sometimes they are not even sensible enough to whe ashamed of themselves, as the snowdrop was pushing itself forward in too great a hurry.

Far down beneath the indrop woke,
Far down beneath the snow,
nd said, I mean to sleep no inore
want to leave the cradle-bed
will, I will grow up,' it sald
You must not go, the tulips cried Why, you can scarcely creep
So nestle down and sleep.
No, no,' it answered, quite ill-bre
I will, I will grow up, it said.
So up it crept, and soon its head
Peeped forth above the ground.
The air was chill, and drifts of snow
Lay melting all around.
Lay melting all around.
But I will not go back to bed,
I will, I will grow up.' it said.
And so it upward pushed its leaves,
Thowgh yellowed with the frost:
Thowigh yellowed with the frost:
And soon a tlower-bud shot forth.
And soon a tlower-bud shot fort
And by the storm was tossed.
'Tis time iny pretty flowers ivers) spreat
will, I will grow up, 't soid
In April days so soft find warm
Making their way in thrifty clumn
Of deepest emerald green.
No storm winds now; warm sun,
To kiss their buds of blue and red.
And there they saw the snowdrop stand
Who would grow up too fast;
Its leaves were pale, its feeble flowers
Were tattered by the blast.
And all ashamed it hung its head,
And wished that it were down in bed
It is very foolish to look down on other peo
le because they show signs of age and hard wake fun of a poor old Saucepan that was busily hiny, and the Saucepan was old and chipned an "I should think it was about time you retired "I suppose I shall the Kettle mockingly. Saucepan, "but I hope to do some replied the irst. I can boil cabbage or potatoes as well as leak, for I have been patched twice, ", "inht begin The Kettle sang louder than ever. "What atched up," he laughed. "Now, look at me "There will be a good many specke on yon
soon," answered the Saucepan. jest at the misfortu" means, but don't sing your so the kettle by all down on your elders. You would admin or look dier who came back from Airica wounded solshabby, far more than one who was just starting gaily orf to the war, without a scratch on himme a worse "old bore" than the sou will vote preach too much when you are wild to get if it doors and play marbles.

> Hurrah ! Hurrah ! it's marble time And every boy who's got a dime Will, after school, be out at play, What if the wind blows chin?

Now bring your "allies " bright, and bring Your bag of " mibs " and make a ring And if it's little or it's big, There's not a feller'll care a fig; Will play, and you must "knuckle down

Oh, don't I wish that I might go nto the land where marbles gro pon the rees like fruit, and pull Though I can't find that country, I'm ust jolly glad it's marble time.

COUSIN DOROTHY.

## Domestic Fconomy.

FOR "SQUEAKY" SHOES.
lew drops of shoes and boots squeaking, put a pers and soles with a small ofl can. THE EMERGENCY OABINET.
Every household should endeavor to have an nished and promptly replenished, carefully fur begin to lower. In it should be lropt envine, oxalic fluid, turpentime, gasoline or ime, ammonia, absorbent paper, alcohol and the thousand and one thinge which, if mot used daily, incpensable when they are wanted.
QUICK REITEF FOR SLIGHT BURNS. scald, perhaps there is nothing to a burn or a than simple flour. It should be applied imme diately and spread thickly over the appled imme lace, the part being wrapped afterward in cotto wool, kept in place by a bandage or strips of old ficial, this remedy will be found most excellent but where the deeper tissues are involved, other

A NEW Vo recommended in preference.
A NEW VARIETY OF APPLE FRITTEER. An attractive and timely dish is apple fritters
en surprise, for which the Boston Cooking School
Magaine Magazine gives the following rectpe:quickly (mellow or eight apples that will cook quickly (mellow Greenings are good for this pur-
pose).
Cut out the stems together with a round pose). Cut out the stems together with a round
piece of apple and clean out the core carefully, Cut out the blossom end, but do not cut deep enough to meet the cavity in the center. Pare the apples, fill the centers with marmalade, dip the corresponding pieces of apple with stem aidhering into fritter batter and press them into every portion, and fry in dritter batter, covering require six or eight mirutes' cooking. Drain and dust with powdered sugar.

## Hygienic Chat.

How few things are so dangerous to health as should be thoroughly aired before under garments new garment should aired before worn, and a paid to it in this respect. Stockings, vests and
skirts are all put on, as a rule skirts are all put on, as a rule, just as they come
from the shop, and things which have been in a shop for months, probably for winter months, are most liable to be damp
When garments have become wet while being
worn, the wearer should possible. wearer should discard them as soon as Wet clothes should be dried slowly. To put
them before a hot fire is to ruin them. Cloth and other materials is to ruin them. Cloth cockle, and boots and shoes contract and become dried and useless if quickly may be convenient. When it is as soon as to change, bodily exercise should be taken to ward person be very delicate will not arise (unless the kept in motion, but if the wearer remains still or iries the clothes while wearing them, colds, rheu-

## Somethite, About Devonshire.


#### Abstract

There is an old house with its three ow windows, one above the other, at the junction of the narrow Strand and the the harbor where it is believed that Keats to ceady in bad health and needing a warm clima pent a winter and spring putting the finishing touches to his "Padymion," revising its proofs as they came to him from the London printers, and writing his "author's preface," which bears the inscription "Teignmouth, April 10th, 1818." It is evident that Keats could sometimes come down fom the cloud's and enjoy some of the good things of this life, for after speaking of the beauty of the River Teign, he thus scribbles in doggerel form :


Here all the summer I could stay
or there's Bishop's. Teign, and King's Teign,
nd Coombe at the clear Teign heud,
You may have your cream
All spread upon bariey bread."
What Devonshire man, woman or child does not, at all events, know of Coombe Cellars, with its cockles, cream and skittles, which for over a century has been the picturesque goal of many a water-picnic up the Teign ? The old thatch has been replaced by tiles of a more modern date, but ld characteristics, its foundations of piles, and the balcony upon which visitors love to linger to view the summer sunsets before they reluctantly eave the enchanted spot. They have enjoyed during the afternoon hours the distant views of against the sky, below them the undulating hills, neadow-clad, that lie beyond Newton." The have discussed with one another the accuracy of Baring Gauld's description of Coombe Cellars, Which he has adopted as the scene of his novel
Kitty Alone." They have heard some of the old muggling legends which adhere to Coombe Cellars, although it is doubtful whether the guilty p, but they still linger on for a sight of the y, but they still linger on, sumber of the sun on thers from the river bank at Coombe Cellars is worth he extra effort required at the oar if the tide and time limit has been somewhat overstepped to nsure an easy passage of their little craft unde etween Shaldon and Teignmouth
For Shaldon I have a very soft spot in my heart, and a prowl around its queer little tangle o nd the climb upwards to the Torquay Road, ha no the climb upwards, to the Torquay Road, ha ands me almost in front of the house where we odged more than once in the old days. It is vidently in private hands now, and I am not been into an old garden where I used to play with those who have all passed away before me and I have seen the spot where a slow-going ol rroise used to drag twsel own the pebble pathway, snapping at the pass-
ng insects until the winter coming, with its warn ing that it was time to go to bed, it would bur ow underground and not reappear until spring ime. "Yes, ma'am, T've heard tell that ther sed to be a tortoise in the garden, but that wa ong before our time." as might have know
without the asking. I was glad to see that th old gateway at Hunters' Lodge still stands as o old, its posts being formed of the enormous jaws of a whale, and, as it were, in defiant attitude could have swallowed two Jonas at one snap if it had had the opportunity. Starting from Shaldo lage around, there are many lovely walks to vil manorhouse, or some old-time record, to march n manorhouse, or some old-time record, to make
them worth visiting. I will mention some their names, in the hope that they may strik. Camiliarly upon the ears of old Devonians int
whose hands our Hone Magazine may fall The whose hands our Honie Magazine may fall. The will know that to reach them one's way generally pall seasons picturesque and beautiful (but some times a trifle narrow, if the pedestrian is heade
one way and a herd of cattle another), for which One way and a herd of cattle another), for which
Devonshire is so celebrated. Going up the Torfuay Road, there are gaps in the hedges anid sev cral gateways, where from an elevation as high as the Ness, and on either side of it. there are lovely neeps at the sea, but if you want to climb up to ncly steep, leading you to Stoke-in-Teign-Head ingly steep, leading you to Stoke-in-Teign-Head
you must turn off to your right. A kind land nwner has placed in a sheltered nonk a seat upon
"Which vou may rest yourself, and while vou ves may learn a lesson from the lines inscriber
"the pedestal of a sundial facing you. They

## YOUTH

" Mark well the hour of need And, reader, neeting shadow tells; And, reader, ne'r commit a
On which a shadow dwells." AGE.
" And as yon sun declining rolls away, To rise in glory at return of day, So may wee see his transient being o'er,
So may we rise upon the eternal shore."
Stoke is described as "buried in a hollow threaded by flowery lanes, noted in springtime
ior their white violets." I am afraid I shall be "or their white violets." I am afraid I shall be a big bunch of those sweet-scented, pure white blossoms which grow in such profusion. Walking, one cannot go on to Coombe-in-Teign-Head, to Haccombe Park, the seat of the farews, no whom the ancient record says that they, "with Carey and Copplestone, when the Conqueror came he found them at home," but later on I may treat myself to a carriage or a bout to Coombe than I could possibly do on foot. If I do either of these I shall be glad to tell you about them
another time.

## Beautiful Land of Nod.

## yo, cuddle your head on my shoulder, dea

An head like the goldenrod,
And we will go sailing away from here To the beautiful Land of Nod,
A way from life's burry and flurry and worry, To a world of fair weather we'll lloat ofl together Where roses are always in bloon.

Just shut up your eyes and fold your hands, Your hands like the leaf of a rose, And we will go sailing to those fair lands
That never an atlas shows. That never an atlas shows.
On the north and the west they are bounded by rest, On the south and the enst by dreams ; Tis the country ideal where
But everything only seems.
Just drop down the curtains of your dear eyes, Those eyes like a bright bluebell, And we will sail out under starlit skies
To the land where the fatios
Down the River of Sleep our bark shall sweep, Thil it reaches the mystle isle,
Which no man hath seen, but where all have beols,
I will croon you a song as we float along
To that shore that is blessed of God,
Then, ho ! for that fair land, we're of for that rare
The beautiful Land of Nod.
-Ella Wheeler Wilcox
What can I do for my Hotle boy," asked mamma. "" so that he won't want to eat betwedn, meals'?" " Have

## On Women in Canada

AS TOLD TO THE WOMEN IN ENGLAND. Mollie has been "off duty" for awhile, and her s getting lazy. Perhaps she has no better reason to offer, but she will not waste any more of her mall allowance of space in the Home Magazine In moking mere excuses. Whet ohe wants to tell you about how, is the high tribute of praise and ing held under the auspices of the Colonial section of the Society of Arts on Tuesday Iast, the 10th Februairy T,arly Aherdeen had consented to was a very large attendance, and amongst the was a very large attendance, and amongst the some notabilities from Great Britain itself and our sister Colonies, a few of whom took part in he discussion which followed the paper. aid there were few countries whose pas received, and whose present development were so closely identifled, with the influence of its women as Canadter it was settled by white races, in all its Provinces by the cherished traditions of the high courage and devotion of heroic women, traditions which had remained the inspiration of descendants worthy of themselves. There could ot be too much sald about the beauties, the atbut its present position has been won by the unemitting toil of its pioneer settlers, and none had borne a heavier share of that toil than the oung mothers, who, well educated themselves wards passed through all the vicissitudes of rea ing young famitties far awhy on the groat 10 orio prairies or in the depths of the forests and mountains. She could best sum, up the chife impres-
sion niade upon her by very close fntercourse alid riendship with Canadian women for several yeare fficial and unofficial, by one word which was nuch in our mouths to-day-officiency. French Canadian, or Manitoban. Nova Scotian, British all alike hall-marked by this stamp. Meet then
all in society, watch them at their sports, examine their philanthropic or missionary work, or observe into the ways of their households, and they everywhere.
After telling the stories of the fourteen-yearold Madeline de Vercheres, who, with her littlo brothers of ten and twelve, and two soldiers, defenđed the Fort of Vercheres against the Iroquois or a week 'of the Lady de la Tours' defence of mies in his absence; of the heroic Laura Secord in 1812, who travelled on foot for twenty miles. alone and wholly unprotected, through a wild
country full of hostite Tndfans, to wash the Commander of a secret plan of attack of which she had heard accidentally, thus saving, not only the ives of our soldiers, but enabling them to secure a brilliant and most important victory ; of that
other band of heroic women who with their husother band of herole women who with their hus-
bands and children sacrificed their all for their country in the days of the American Revolution, of Britain; of the women settlers in the outlying


COOMBE CELLARS ON tHE TEIGN, DEVOMBHIRE, RNGLAND


#### Abstract

parts of Cunada, and more recently, in those wo they too have counted, and are counting, for much in the building up of the new country much in the building up of the new country These stories had their climax in in the following experience, and being a typical illustration of the "all-round capacity" of the the women of the Canade of to-dand capacity of only aroused pomen of the Canadiar interest in her hearers, but appeared in several of the her hearers, but appeared in several of the daily papers on the following morning. It ran thus The Governor-General and his wife when they were malring a journey across the Dominion, dine one night at a house "remarkable even among Canadian homes for its charm and beauty, pre sided over by one of the most attractive of mis tresses-" They were waited on by so trim a parlor-maid that Lord Aberdeen felt constrained to compliment the hostess on the results of he training. "Oh." said the lady, "I am so glad training. "Oh," said the lady, "I am so glad her so presently." "And when that 'presently" cover but 'Jane' arrayed, in evening dress, and consequence of the unexpected departure of the servant, had had not only to wait at table, but to cook the meal, with the assistance, of her mother. Thus, she said, do Canadian women learn easily and gracefully to combine the domes- tic duties of the household, whilst at the same tic duties of the household, whilst at the same time, dressing charmingly, taking their place in society, participating in outdoor sports, and lirecting philanthropic work with great effectiveLady Aberdeen's last words were: "I trust that what I have said has left the impression chat the daughters of Canad left the impression and of sunshine and of promise, and that women who are seeling a new home will find no better country, nor one where they will have fuller scope for the exercise of all their abilities." The chairman, the Rt. Hon. Leqfard H. Courtney, after a tribute to the important part played by both the French and Scotch element in were asserting thair place and making their place in the bullding up of society throughout the whole of the Dominion. To them they looked as the great co-operators in bringing out the real development of the Canada of the future." sir John Cockburn, of South Australia thanking Lady Aberdeen for her beautiful word pleture of the women of a sister Colony, spoke Colonial women were capable, and Mr. Preston Emigration Commissioner for our Dominion, went still further and claimed for our country that it held within its vast boundaries the very "highest type of womanhood," an assertion which hence forth we must all do our best to deserve. The only other lady speaker was Mrs. Boomer, of London, Ont., as representing the made in connection appreciative allusion had been anthropy generally, but more especially with the built under its auspices, and the establishment o the Aberdeen Society for the distribution of literature amongst the several outlying district minutes over the regulation ten, was allowed five enabled not only to confirm all that had been al ready said from her own experience and knowl- edge, but to offer a few added facts to edge, but to offer a few added facts to the record of women's work in Canada wilhin and without of women's work in Canada within and without the ranks of its National Council of Women. Perhaps some of her words of testimony may fer material for another little chat from-


The Sphinx's Riddle
"What animal walks on four legs in the morn ing, two at noon, and three in the evening ?"
How many of the young readers of the "Farm er's Advocate" can answer that puzzle? Do you
know the story of the Sphinx and her riddle ? I
vill tell you : there may not be a word of truth will tell you; there may not be a word of truth
in it, but it is a matter of history, and you may in it, but it is a matter of history, and you may
not meet with it in your school books. The old
writers tell us that Juno was angry at the King writers tell us that Juno was angry at the King
who reigned in Thebes, a city in Greece, and sent
this Sphinx to this Sphinx to plague the country. This the Sphinx did by proposing enigmas or difficult ques
tions to the people, and the condition was that if any one answered one of her puzzles correctly she would destroy herself and relieve the country, hut if any one tried and couldn't answer she
would put him to death. But you ask, "What is
"S Sphinx?" Tt is only an imarination. some Whin put him to death. But you ask, "What is
"S Sphinx only an imagination; some-
thing that never had an existence, but they are described as monsters, with the body of a lion
and the head and face of a man or woman. These
were called Androsphinxes and there were others with catled Androsphinxes, and there were others
with of a hawk. called Criosphinxes.
The Sphinx that plagued Thethes had the face of a woman and a terrible voice She took her
pass unless they solved the above riddle. This
vexed the King of Thebes so that he offered his crown, anid daughter to wife to any man that ancalled Oedipus, lame in both feet from childhoo came limping along, intending to enter the town, but was stopped by the monster, who told him ne must answer the riddle before he would be
allowed to go further. When Oedipus heard the riddle he answered it correctly, at which the Sphinx dashed her head against the rock and disappeared. Oedipus then entered the city, beter, Jocasta, who turned out to be lils awn mother, which leads to another sad story. Now
here is the answer to the Sphinx's riddle: Man here is the answer to the Sphinx's riddle: Man, no hands and knees, walks morning of life craw the middle of life, but growing feoble in the evening of his days, needs a staff to suppurt him

In the Saddle: A Winter Ride.

Riding is enjoyable at any season. There is
inspiriting charm about it in spring weather an inspiriting charm about it in spring weather es, when "the folded leaf is wooed from cours bud," and under the warm zephyrs the peach trees blow in blushing profusion. On summer evenings, when the now-mown hay rests fragrantgave for the chirp and hum of many insocts there is a dreamy pleasure in riding slowly and quietly and on the "days that darken to winter," when the whole landscape is a vivid pageant and a
perishing one, it its dying robes of red and gold, and the crows gather to their annual caucus, call. ing querulously, and the thin ice-layer breaks a med your horse's hoofs, there is a fascination in a meditative leisurely ride. But what about
ride on a winter morning in the teeth of a gale when your horse's nostrils are white with frost, and you brace up and bend your head against the
stinging storm? You'd ." rather stay in the house and knft ?" I wouldn't. You don't know what riding means till you try it on such an I tried it recently-buckled the girths tightly my horse on the shoulder, and away was black-grey, the roads, icy, the wind wild, and from the north-west there drove fine, hand snow
siftings. As I rode, the sky grew darker siftings. As 1 rode, the sky grew darker, the
wind wilder, the snow more fine and dense, all the elements seemed waging a furious battle. But I enjoyed it, and to all appearances so did Thucydides (call him that for short). He shook his head, kicked up his heels, and bounded off at O'Shanter's Maggie. On we went, up hill and down, and I almost caught myself looking back to ascertain whether any terrifylng witch was
about to rob my Thucydides of his tail, as that nimble witch of Tam O'Shanter fame robbed Magsie. But I had no cause to pay such a penalty It was
it was a picturesque road that we traversed, the router There were long, steep hills, sudden
turns, bridges where turns, bridges where one least expected them, and arious cross-roads, every one of which Thucy-
dides would fain explore as a possible short cut suppose, to his own warm stable. The snow
crept under my chin, and sifted into my horse's mane, and I rubbed my nose to keep it from and shrieked through the elms, and the firs
whistled through the oaks, and switched about in eerie wails up through the glens. Not much enjoycan say is what I have said before, "Try it.". all I At one time Thucydides stumbled slightly in
crossing a bridge, and I gasped a little, but he crossing a bridge, and I gasped a little, but he
sprang up and cantered along more vigorously
than ever. and comewhat ; resembled a he shied at a stump that he tried to take the bit in his teeth and carry whither I would not, but on my admonishing him slightly he became all docility again. On passing
some homes the snow was rather a welcome screen, as a good many things appeared off and For that by rights should have been on and off. orf the truth, shingles off the roof hinges, fences the barns, and shutters, lightning-rods, etc., off at various angles, while barrels, boxes, sticks, stones, bones and implements of all kinds were
on the lawn, on the driveway, on the very spot,
in fact, where each It is a where each object should not have been. a farmeridis about any home; and no matter what there any excuse for such carelessness and of methor ? But there were beanty-spots, tock along this road, and as Thucydides and I were
strolling past one of them the storm abater, and
tho cun shone me sun, shone. It wasn't a palatial home by any itable-looking. Everything seemed to have been
put on stralght, and kept so
new shingles on of paint in the fall, the litt row of evargreans on the lawn were trimmed to row of evergreans on the lawn were trimmed to
one size, and the same precision and care weto dent about the barns.
That little beauty-spot seemed to influence the whole landscape, for as we went on I thought "How can peoplo see no color or loveliness it tered, and the road wound aheed of us like gleam-
ing silver rails. There were clumps of fint ing silver rails. There were clumps of faintly blue woods in the distance, a bit of very blue sk above, and deep blue shadows on the snow. Some
of the slopes looked almost pink, and againet their brightness rested the lovely greens of the
pines. The willows, with their tiny yello pines. The willows, with their tiny yellow goldenrod's brilliant autumn beauty had change to a fawn feathery lightness. Along the fences
clustered the brambles in shades of clustered the brambles in shades of golden-brown and purple, and even the lichens on the old rail
fences were green like the first spring leaves. And now, how soon those leaves will be unfolding How soon this pure snow-mantle will fall from the shoulders of the hills and mother earth will come to her own again, anid the
winter rides for another year ।

> O glad brown earth, we greet thee Freed from the shrouding snow Soon shall the shadowy forests wake To starry bloom for thy dear sake

To starry bloom for thy dear sake,
Soon where the rivulets flow,
The crumpled ferns their sheaths shall breal
The crumpled ferns their
The slender rushes grow.
O glad brown earth, to greet thee
The skies of Spring lean low."
CHRYSOLITE.

## Floral Notes.

March is a
early blooming
Cut back oleanders early in spring before star ing into growth.
Drooping house plants will revive if sprinkled
with camphor water
Plant gladiolus bulbs early, as soon as the rost is out of the ground.
This is a good time to take heliotrope cuttinge
All things considered, the Virginia creeper is
the best climber for shading a veranda.
Do not forget to plant a few dahlia seed about this year
Hollyhocks can be made to bloom the first year if the seeds are planted now in boxes and

Bring your fuchsias up from the cellar. Cut plants that are well grown. andle lime water occasionally will help your kill all angleworms in the soil.
Sweet peas can be started in a cool place in
the house and transplanted outdoors as soon as the ground is ready. It may, perhaps, hasten Cut branches of the lilac and other lawn shrub, or fruit or woods tree, bring to the house
and place in water in the sitting-room ; they will
Cenery bird. It
Canary bird vine is a good annual climber. It its pale green, finely cut foliage and yellow fringed ttractive.
Unless your rubber plant is growing well do
not give much water. Kin dust, and give fresh air frequently. Do not place in full sunshine, but do not keep it in much shade. grees. have the temperature about seventy de
Fehruary or March is a good time to start
verbena seed. A light rich soil is required. Verbenas growing thriftily can use considerable ing in the ends of the shoots in the early stages of growth causes the plants to branch freely. When seed sowing is left until late in spring it should not then le attempted, but plants can
procured at small cost.-[Woman's Magazine.

During a sham fight an old general came uniawares
upon a soldier who was lying fast asleep among the corn. Ing him with the full intention of making an example
of him The soldier, thus suddenly startled out of his
slumber, rubbed his prang this feet, presented ar recognizing the officer ". I beg your parcion, general, but we were going through a sham fight, and In order to make an illu

March 16, 1903
GOASIP.
Messra. R. \& S. Nicholson, Sylvan, Ont., in ordering a change in theif advertisement, send the following notes of their Shorthorn herd: "Of our last peeson's importation were four yearling heifers from the herd of Mrr. John Marr, ired by his cheef stock bun, Luxury, a Rosewood, full brother to the champion Smithfield steer of 1899, and almost full brother to the noted silver plete. These heilers are of the Rosemary, W. . Marr Lady Annie, Averne and May Bud families, and are a beautiful lot. Another yearling is Honeycomb 6th, of
A. Crombie's Hawthorn tribe, sired by A. Crombie's Hawthorn tribe, sired by
Spicy King, considered, in Scotland, the Spicy King, considered, in Scotland, the
best son of Spicy Robin. The yearling, best son of Spicy Robin. The yearling, Campbell, Kinellar. . The last three sires in her pedigree were bred by Mr. W. S. She is three times descended from noted Scottish Archer, and is :lue to cutve to Prince Sunbegm, a son of Beottish Archer. These six I consider the
best lot of yearling heifers imported in 1902. The two-year-old heifer, Lady Hope Wimple, was sired by the Lady getter, Prince of the Vale, lately illustrated in the 'Advocate,' and her heifer
calt, Spicy Wimple, cane with her. They calf, Spicy Wimple, came with her. They
are a beautiful pair. Of a former importation, we retained the handsome young cow, Pineapple 9th, who during
the last 18 months has produced two the last 18 months has produced two in Toronto next fair time. They are
sired by Imp. Chief of Stars, the best sired by Imp. Chief of Stars, the best
getter we ever used. Amongst the
home-breds are six red Nonpareil females, most of them having none but imported bulls on pedigree of imp. cow, Nonpereil
31 st. 31st. We have five red Minas of the
purest Scotch breeding a low, thick purest Scotch breeding, a low, thick,
even lot, and two Campbell Clementinas that are extra producers, one Crutckshank Lovely, a granddaughter of old
Imp. Lovely 19th. She is the Imp. Lovely 19th. She is the dam of
the Lovely heifer that Mr. Flatt purthe Lovely heifer that Mr. Flatt pur-
chased for $\$ 500$, and we consider these chased for $\$ 500$, and we consider these
two the best bred Lovelys in Canada. There are also a number of the grand
old Miss Syme sort, more than half of old Miss Syme sort, more than half of
which have won prizes at Toronto, and Which have won prizes at Toronto, and
why should not they. as the last six or seven sires in their pedigrees were all
first-prize winners at Toronto or the old first-prize winners at Toronto or the old
Provincial. The herd is now headed by
the imported yearling bull, Spicy Count, the imported yearling bull, Spicy Count,
a Clara, sired by Spicy King, bred by a Chara, sired by Spicy King, bred hy
Mr. Wm. Anderson, Saphock, Old Mel-
drum. Spicy Count is full brother to drum. Spicy Count is full brother to
the International junior female champion
 at Chicago in 1901. He was the best
bull calf we saw in Scotland, and has
exceeded our most exceeded our most sanguine anticipa-
tions. At just one year old his hearttions. At just one year old his heart-
girth was six feet two inches. His girth was six feet two inches. His
upper and lower lines are perfect, his upper and lower lines are perfect, his
evenness of development, width of back,
beautiful carriage, width and depth of beautiful carriage, width and depth of
buttocks is something remarkable."

A SHORTHORN DISPERSION SALE. Attention is directed to the dispersion
sale of the entire herd of seventeen head sale of the entire herd of seventeen head
of registered Shorthorn cattle belonging
 Park Farm; Goderich, Ont., to take rlace
on April 14th. These cattle were nearly on April 14th. These cattle were naarly
all purchased from the well-known standard herde of Robt. Miller, Stoufville James Douglas, Caledonia, and T. Doug-
las \& Sons, Strathroy, and have the las \& Sons, Strathroy, and have the
benefit of the blood of the high-class benefit of the blood of the high-class
sires used in those herds, and all are in excellent condition. The cows and heifers of breeding age are in calf or have
ralues at foot by Genora's Prince
$=31745-\quad$ son of Valkyrie $=21806=$, 3y the a son of Valkyrie $=21806=$,
by the chaion Abbotsford, out of
Vanity, a Toronto first-prize, anity, a Toronto first-prize winner; or
hy World's Fair King $=38431=$, by Beau Ideal, a Toronto winner, sired by Sitty-
ton Stamp (imp.), and out of Bessie
T.ass (imp.), bred by Sylvester Campton Stamp (imp.), and out of Bessie
T.ass $\begin{aligned} & \text { (imp.), bred by Sylvester } \\ & \text { Camp- } \\ & \text { bell. } \\ & \text { Kinellar. } \\ & \text { Goderich, on Lake } \\ & \text { Hor, is the terminus of the Bufalo }\end{aligned}$ and (ioderich branch of the G. T. R.,
and 13 miles west of Srom Slintion Junct Junction, on,
and the 1.ondon and Wingham branch. Cata-
logues are in preparation, and will be
sent

THE FARMER'S ADVOCATE.

## NOTIOES.

THE HAMLLTON PROVIDENT AND LoAN SOCIETY, of Hamilton, Ont, place an advertisement in these columns, celling attention to the favorable terms on which they are willing to lend money to farmers. Parties interestec should look up this advertisement and correspond with the manager.
' COCK O' THE NORTH."-The most attractive and effective catalogue reaching our offices for many a long day in Abell Engine and Thresher Co AmericanAbell Engine and Thresher Company. It is a beauty outside and in. There is a ane portrat of King Bdward VII., a description and cut of the Gordon Highlander charge at Dargai Hill, the music - Gordon, besides march, the last Duke threshers - A Pot chreshers and engiees. A post card will secure you a copy Adersate, can-Abell Ferine and Thresher Co. ronto, Ont Do so at oneer as the supply may be exhausted.

FREE BOOK ON FORTUNE-TELL ING.-The Mystic Fortune-Teller, PalmIst and Dream Book enables you to onwertain your friends in a most novel wey, makes you sought after at partles and social gatheringe, and arouses in
those around you the beilef that you possess the mysterious and occult powers which are attributed to those who tel iortunes. This book is composed of 48 prges, and besides a treatiso on dortune telling, contains valuable impormation re garding Dr. Ohase's famous family remodies. It will be sent postpaid along with a free sample box or Dr. Chase's Ointment to anyone sending their name and address, and mentioning this paper, to Edmanson, Bates \& Co;, Toronto.

SELECTION OF OATS FOR SEED. We wish to advise you that there is an increased demand for oats for milling purposes, but on account of foreigi grains, espectany bariey mixture, a large proportion of the oats we recelved from you are unit for mining. As oats for this parpose cor mand a premium, we re for this season are free from barleg wild tha coason aro foreign grains, Fild oats and other foreign grains, as milling purposes shall be choice white milling with your hearty coloration in furnishing we with choice oats suitable for milling you will enable wa to btain the highest prices for oats at all 1 mes, ta we will then have both an export and a milling market for the same.
Yours truly, GRAIN MERCHANT.

$$
\begin{aligned}
& \text { Yours truly, } \\
& \text { March 9th, } 1903
\end{aligned}
$$

A PIANO with a record.-We have every confidence and the greatest pleasure in drawing the attontion of Advo-
cate " readers to the advertisement of Heintzman \& Co. that appears in these columns from time to time. This famous firm of piano-makers have been iǹ
business in Canada for fifty years. Their business in Canada for thry years.
pianos have received the endorsement of the world's greatest artists and all the leading musical conservatorles, and of prominent citizens in all parts of Can-
ada. Readers who are thinkting seriousa.da. Readers who are thinkting serious
ly of buying a plano should address this firm, whose head office and warerooms are at 117 King St. west, Toronto,
and who have a branch at 217 Dundas and who have a branch at 217 Dundas
St., London. The firm is noted for their
timen.

## COSSIP.

H. K. Fairbalrn, Thedford, writes: "Our Shorthorn cows an of the following families: Watt Matchlesses. Village Maid, from the same herd, has dropped a bull colt of grand quality, sired by Coming Star The heifer, Matchless 34th, is a good, sappy, growthy animel, and has a model calt by hoyat Thonder =sic82=, sold to the States at $\$ 1,000$. Golden Gem, by Golden Rule, by Golden Crown (tmp.) is a fine red cow, six years old, with red-roan bull call at foot. France Folsom 3rd, dam of the heifer calf tha was shown by Capt. T. E. Robson a Toronto and Western fair.

IMPORTING PERCHERONS FROM U.S In reply to an enquiry from the "Farmer's Advocate," asking if Percheron horses for breeding purposes registered
in the Thompson record were admitted in the Thompson record were admitted
duty free into Canada, or must they be duty free into Canada, or must they be recorded in the new Stubblefield registry we have received the following reply from the Department of Agriculture, Ottawa -iner cortincato acuplo, provide animal possesses
provement stock."

FREE frttry to U. s. of regis TERED STOCK,
A bill passed both branches of the U. explicitly that all animale registered in books approved by the Secretary o Agriculture shall be admitted free of duty whether being imported for purposes of sale or not. This action disposes or a question of interest to Canadian breeders, which for a limited time hae been enshrouded in doubt, and the intelligence will be received with satisfac tion.

QUESTIONS AND ANSWERS. MISCELLANEOUS.
 1. I would like to hear, through the "Advocate," something on feeding rape to pigs. One of our neighbore tried fearfully sick. Is it good for shemp? 2. Is February a good month in which to prune trees?
Pletôn Co., N. s.
An̆s.-Rape is not very widely used to
hog pasture, but where employed it
gives good satisfaction. The trouble with your neighbor's hogs was probably due to pasturing when the rape was wat
with dew or rain, or perhaps they wete too suddenly put upon rape alone for feed. All kinds of stock should be gradually accustomed to rape, and should
not get it when wet until they are well not get it when wet until they are well
used to eating it. It is one of the best fall foods for sheep and cattle. 2. Trees may be
See Feb. 2nd issue

See Feb. 2nd issue.



QOSSIP.
A high-class German Coach stallion to advertised for sale by footi. Anderson, T. R. and O. P. R.

Mr. L. Rodgers, formerly of Weaton, Ont., breeder of Improved Yorkahire hags, desires to inform readere of tho "Advocate" that he has changed hig P. O. address to Bmery, Ont., and will e pleased to hear from his old customars, and many new ones, whom he is prepared to supply with young stock of
either sex and different ages, A good cither sex and different ages, A good
crop of spring pigs is coming and expected, for which orders will be booked for shipping when weaned.

tessin aossup.
Prot. I. w. Memitord. chber Animal tubenatry Dienarment Univeratur of tuluebe, formorify of Mienigen Agrticut.

 the mill San, and long noted for he shorth
 - does not purromes ivivine in collefo doen not prorpose giving up col add atation work in the
Wintaor and sand shorithornge from the (undeor and Sandringham herdibot His
 thed oor roinivi. Tho bull Roval nowe oramploon of the Royal show three





 Sought by Lord Caltoppo): Str Alex-
 Dome.

Werre. Wm. Grathger \& Son, Londen borac. inte. In suding ling chane of
 If would uspocallyd drave the attention monthoold boilis. They arro extra

 table 14 th, wme darr ies the champlon Honestumel Lat, itand their oame ty
 of Freat mbitatanco and cuality, melghing
 Saakio $=3098=$ veikhod. at $3+$ yearr oin bill to H. Bmith, Rxoter, Oot. :
 borought, ont

Hearrs: Brown liros. Lave ont.

 Vertuhn in Mavocate Firave mado
 ling bull, Slir ybma Do Kol Heggervell. 18 son ot Yoma srets Plodgo, A. R tmo soars old, and stred by De Kol 2ndis
 Arrot prise at otawa and Sherrooke.





 amo tair. To To Tos. Anderson, then,
 Kol whose dam, Mondamin's Daisy's
 No Kool hnd butter Boo 3 gri, wand out


 them out of Lady Akkrum's Pietertije's Iosendine, two of whose daughers aro
In Advanced Registry, and one of them






on the Owen Sound branch of the $G$. R., in the county of Bruce, Ont., lies Grand View Stock Farm, the home of a very choice herd of up-to-date Shorthor cattle, the property of Messrs. J. I Black \& Son. This hera numbers bibou 20 head of Mary Booths, Meadowswoeted
Floras and Roan Duchessee, at the head of which stands the richly-bred Missie bull, Marengo B1055, by Myeio's Sailor, a son of Imp. Royal Sallor ; dam Missie of Neidpath 23rd, by Bcoty Imp. Methlick Hero. Marengo is one of the bulls that is certain to become famous as a sire, as he possesses abundance of
ave, has plenty of quelity, is built on
and sixe, has plenty of quality, is buit of
true Shorthorn lines, and handles like sillk. The females of this herd, both old and young, are an exceptionaliy nice lot,
heing large, broad, smooth, and in grand being large, broad, smooth, and in grand
condition.
One of the Floras is MayAower 16808, by. Julius Ceesar 8560 ; dam Flora 87th (imp.), by Sovereigur She has a one-year-old heifer, by Fergus
Chief 26376, that is certainly a cracker Chief 26376, that is cortainly a cracker Royal Beas, a son of Imp. Royal Memhor. This young bull is the making of aomothing extra. One of the Meadow 15, by Tmp. Blue Ribbon: dam Mee dowsweet 2nd, by Imp. Sussex; gran dow Imp. Meadowsweet. This cow is
now $\ln$ calt fo Imp. Baron Heir now In calt to Imp. Baron's Heir
ITaggle Lauder, Vol. 15, is one of the wary Booths, sired by lmp. Prince Royal: dam Naney of Alma, by The Baronet (imp.). The Roan Duches 12, by Don Vampa 9th ; dam Lena, hy Scottish Prince. There are a number of other fomales bred on these lines, rare
 white one mentioned above, is the three-year-old, Golden King 35084, by that grand, good bull, Golden Count 26440 dam Queen Mary 2nd, by Rantin Robin
grandam Queen Mary, by Rantin Robin. Golden King is as nearly perfect in his malke-up as possible. He is very low down, very thick and even, grand
quarters, and a nice soft handler, and can be bought very right. Another bull is the fourteen-months-old red one, by Fergus Chief; dam the above described Maggie Lauder. This bull is also a
typlcally-formed animal, low, thick and beefy. All these bulls, with the exception of the stock bull, are for ale; also, a number of females of various ages. Also, Messrs. Black hav
for sale about 8 head of high-grad cows-a lot that drould do credit to any pure-bred herd. Write them to Alla pure-bred
ford P .
IMPORTANT DISPERSION SALE, Readers are asked to take notice tssue, of the dispersion sals in this splentid herd of registered Shorthorn of the late Lieut.-Col. Tyrwhitt, to be
sold by auction, April sth. at the beat tiful home of Mrs. Tyrwhitt, near Bradord, Ont.. on the northern branch he G. T. R., 40 miles north of Toront bull. Royal Standard -27134- bred iy J. \& W. Russell, Richmond Hill, a bull of exceptional merit and strong indivit ality, having already shown his goor qualities as a sire. He was sired
Scarlet Velvet 21446 , dam Isabella 15th There are besides five yearling and two year-old bulls. which are so even between them, having in them the bloor of such noted ancestors as Barmpto males, rimesenting tes, elc. The te lass families, nre nearly all young an the prime of life, and all of breedin
age have been bred to Royal Standar or Heir-at-Law There will also
osold
alwo Clydesdale teams. sotd two chydescale leams:
drivers, acrustomed to be driven b
ladilies: a nice. even well-fleeced ladies: a nice, even, well-fleceed floc
of twenty wir cotswold sheep fou
Yorkshire brood sows and boar and

## Send Us Your Name

FOR

## Our Spring Catalogue

It's a safe guide for those who do shopping by mail.
it's a money-saver for homeowners and housekeepers all over Canada.
It gives correct information about the latest dress styles for men, women and children.
It's a great help to those who buy things to wear, things for the home and things to eat.

MAILED FREE TO ANY ADDRESS.
Write for a copy at once. Your name and postoffice address on a postcard will do it.

## "T. EATON CO: 190 YONGE 8T. TORONTO, GAN.

ROSES










our steel frame gate
The above cut represents our Steel Frame Gate, and is wired with coil spring steol
wire; cross wir se securely fastened with our Anchor Clasp, malking the gate one oomAlete piece make good money velling our Fencing and Gates, Write for catalogue and

ESPLEN FRAME \& CO., STRATFORD, ONT.
APPLE TREES.


MARCH 16, 1903
THE FARMER'S ADVOCATE.
281


Remington
Typewriter
Simple? Yes
Sure? Yes
Strong? Yos
Romington Typowritor Co. = 6 RICHMOND STREET EAST, TOROITTO.
LONDON, BRANCHES:
OTTAWA.

## Churn, Churn!

  <br>\section*{Windsor<br><br>Salt.}<br>Best grocers sell it.



The High Price of Coal $\mathbf{S N X U V}$ 52 E - 6 n A. Simb ion - smy compan , 51



eossip.
Harry Shore, White Oak, Middlesex Co., Ont., in his advertisement in this issue, oners Shornorn heifers and bull sired by Golden Stamp $=\mathbf{2 1 8 3 0}=$, ty to be in first-class condition, and the nrices reasonable.

Messrs. J. \& W. B. Watt, Salem, Ont write of their Shorthorns: "Imp. Scottish Beau is home in hiss new quarters, and is doing well. We have
now two bulls, Scottish Beau and vice now two bulls, Scottish Beau and Vice
ros, sired by the ros, sired by the two best breeding bulls
in Britain, namely, Silver Plate and Royal Star. Scottish Peer, our other imported bull, two years old, is now
for sale. He is of the for sale. He is of the low-down type-
a right good bull, and his colve are a right good bull, and his calves are a
credit to their sire. We have still several imported and home-bred females and three strong, vigorous young bulls to dispose of. The herd, numbering
nearty one hundred, is looking well nearly one hundred, is looking well,
never better."

Four miles west of the flourishing town of Owen Sound, in the county of Grey, Ont., lies that perfectly-arranged stock
Farm, Rosevale, the property of Mr. W
 that is never satisfied, with a thing half done, and in planning his barns and
stables on his splendid farm stables on his splendid farm has spared
neither time nor expense in finishing nether time nor expense in finishing in the county. The main barn is 87
feet long by 52 feet wide. The stables
are all finished in dressed beech lumber are all finished in dressed beech lumber
with cement floors, thoroughly drainod The ceilings are 11 feet high,; the windows large and plenty of them, ad-
mitting an abundance of sunlight.
The mitting an abundance of sunlight. The
ventilation is the most modern in rse ventilation is the most modern in rse.
Every stall is supplied with a patent Every stall is supplied with a paten
metal water bowl, the supply reing regulated by the latest improved valve
 fitted-up box stalls. The whole a
white as the driven snow with a coating White as the driven snow with a coating
of non-rub-off whitewash. The yard is limestone paved: the whole drained
into one huge cement tank, from which into one huge cement tank, from which
the liquid is pumped and distributed over the fields. On the opposite side of the yard is the boiling and steaming house, where feed is mixed, boiled or
steamed as necessity requines. steamed as necessity requires. Mr.
Shean's crack herd of 'Shorthorns now Shean's crack herd of Shorthorns now
numbers 30 Lead of Crimson Flowers, Minas, Polyanthus, Strawberrys and Lavinias, at the head of whioh is the richly-bred and typically-formed stock
bull, Marengo Heyden Duke (imp.), a son of the great Royal champion prizewinner, Marengo. Few, if any, better
bulls than Marengo Heydon Duke, either bulls than Marengo Heydon Duke, either individually or as a stock getter, have
crossed the Atlantic, and the enormous demand which Mr. Shean has for his get
shows that the people shows that the people appreciate his
royal breeding. On the farm at pres royal breeding. On the farm at pres-
ent are a number of very choice heifers, a few of which are now in calf to Golden Abel (imp. in dam), a son of the
great Imp. Golden Fame. There is only great bull calf left-an eight-months-old
one roan, sired by Imp. Golden Conqueror. by Bapton Conqueror. This is an ex-
ceptionally good calf, and should deceptionally good calf, and should develop into something above the average.
Mr. Shean reports trade as extremely Mr. Shean reports
brisk. Orders are coming in exrom near
ard and afar, and during the last year he
has sold to parties from Manitoba, N.has sold to parties from Manitoba, N.-
$\mathbf{W}$. Territories, Virginie and different w. Territories,
parts of Ontario. parts of Ontario. This herd, as might
be expected, are in the pink of condition, reflecting great credit on the
therdsman, Mr. A. McNabb, whose ability herdsman, Mr. A. McNabb, whose ability
as a fitter and untiring energy in caring as a fitter and untiring energy in caring
for the cattle is amply demonstrated. Lately, Mr. Shean has also added to his herd that splendid show cow, Augusta
3rd, by Lyndehurst 2nd 18276. She is 3rd, by Lyndehurst 2nd 18276. She is
now suckling a grand heifer calf ly now suckling a grand heifer calt
Lord Roberts 41032, and is again in calf to the champion Spicy Marquis
(imp.). There are several heifers sired by Marengo Heydon Duke (imp.) and herd is for sale, and parties looking for good cattle will do well to address Mr.


IF there is one lesson farmers ought never to forget it is the poor economy of buying cheap sededs, just because they are cheap. We sell none but what are thoroughly reliable-the kind that grow with a flourish from start to finish and produce enormous crops. We make a specialty of

## -Improved Short White Carrota <br> -Royal Giant Sugar Bects <br> -Good Luck Swede Turnips

and challenge all Canada to produce their equal. The persistent argument of this business is not "how cheap" but "how good," with the result that Steele, Briggs' seeds always lead the procession.

Send for a catalogue and order direct by mail if your dealer can't supply you.

## me STEELE, BRIGGS SEED CO.,wno "Canada's Greatest Seed House"



TORONTO, ONT.

## HERSEE \& BICKELL Reliable Seeds

発隹 NEW SCOTCH WHITE OATS.



 HERSEE \& BICKELL, smin larmimits, Woodstock, Onlt


HARD WIRE CROBS-BAR.
The H. R. LAMB FENCE CO., Ltd., LONDON, ONT,
Plase Mention Farmer's Aducoctif.

Fannham Oxxoris and Storthoris
MEs


## UNRESERVED DISPERSION SALE


TUESDAY, APRIL 14 TH, 1903, 17 HEAD REGISTERED
SHORTHORN CATTLE
10 fomale and 7 bulls, of conoiee breeding. Conveaancess will meet 11 and 1.20 trains. Catr-
E. C. \& E. C. ATTRILL, GODERIOH, ONTARIO.

DIAPEREION NQOPthOPMS Property of the late col. tyrwitite,
WEDNESDAY, APRIL 8th, 1903, At 1 o'Clock sbarp,

 Rmenol twees and a ram, four Yorkshire brood sow, a boar and a number of store pits ; ilix Condorara icon wain meon of Grand Trunk Northern Division, to miles from Toronto. CAPT. TUCTIOM ROBSON.

MRS. TYRWHITT, Bradford, Ont.

## IMIPORETING OATMMEN



## Portland Cement

CONCRETE SILOS
cannot be excelled WHEN BUILT WITH

## "RATHBUN'S STAR" BRAND,

manufactured by

## Cañalian Portland Cement Co,

Works Strathcona, Ont.
Works at Marlbank, Ont. Montreal, st. Lawrence Poriland Cement co.

Daily Capacity, - 1,800 Barrels.

> For tests, prices and
> other information write to

The Rathbun Company,
310 and 312 Front St. West.
TORONTO.
gossip. Mr. Hugh Pugh, Thitevale, Out., who
advertises Shorthorn cattle and Shropadvertises Shorthorn catcle and Shrop-
shire sheep, writes, under recent date " Trade has been splendid with me this year, and I have sold about all the fe-
males I care to part with and a good males I care to part with and a good
number of bulls. The three calves I am number of bulls. The three calves I am
now offering are all nice ones, in fine connow offering are all nice ones, in fine con-
dition, and with good colors. They are dition, and with good colors. They are
sired by Scotch Stamp, a bull that has done remarkably well for us, leaving caives of splendid symmetry and with plenty of bone, heavily fleshed and rich
in color. We never had a latter season with our Shropshires Holer season with our Shropshires. Home and foreign trade has been excellent. Ewes are now looking splendid, and the lambs are year's prentirully and strong. This our imported ram, and knowing his past our imported ram, and knowing his past
record, we are looking for something extra this year.

SPRINGBROOK HOLSTEINS AND TAMWORTHS.
Springbrook Stock Farm lies in the county of Waterloo, about one mile line of the $G$. Ta line of the G. T., and about eight miles
west of Guelph.
The owner, Mr. A. C. Hallman, is a gentleman well known on
account of his highecloss herds of Holaccount of his high-class herds of Hol-
stefin cattele and Tamworth hogs, and, to stein cattle and Tamworth hogs, and, to
a lesser degree, his large flock of B . P.
Roclk fowl. The herd of Holstelns now number 38 head, headed by Judge
Aakrum
De
Kol Aakrum De Kol 3rd, winner of first
prize and sweepstakes at Toronto last prize and sweepstakes at Toronto last
fall. He iw sired by Judge Aakrum De
Kol 26676 . whose five-year-old milk record is 67 2n lbs. a day, and butter record is 24 lbs . in seven days; dam Mosetta 32083 , Chree-year-old milk record 58 lbs. a day,
testing $\mathbf{3 . 5}$ per cent. ; also prominent in his pedigree are such noted cows as
Imp. De Kol 2nd, butter record 26 lbs. Imp. De Kol 2nd, butter record 26 lbs .
9 ozs. in seven days ; Lpdy Aakrum, 9 ozs. in seven days; Lady Aakrum,
butter record 21 t lbs. in seven days, and
others equally others equally as good. The cows of
the herd are the get of such noted bulls as Netherland Statesman's Cornelius, a sweepstakes winner at Toronto; Prairie
Aggie Prince, another sweepstoko and the herd is aiso strongly infused
with the blopd with the blood of that great bull Nether-
land Prince. In fact land Prince. In fact, none but Ad-
vanced Registry bulls have ever been ased. Aegistry bulls have ever been
used. milk producers, this herd averages from 8,000 to $12,000 \mathrm{lbs}$. each
per year. and from 50 to 65 lbs a day. per year, and from 50 to 65 lbs , a day.
They are an exceptionally large, evenly-
halanced They are an exceptionally large, evenly-
balanced lot, and show a wonderful dorolopment of udder. Last fall, at To-
ronto, they won socond on mature herd,
third on yong third on young herd, second on four the
get of one bull, and, as stated above get of one bull, and, as stated above,
first and sweepstakes oo stock bull ; in
fact, out of 14 entries they won in choice yearling bale there is one veronto winner,
and four bull calves; also, 15
fem and females from six months to four years
of age, a number of which are Toronto and other winners.
In Tanworths, the main stock boar is
Imp British hing Soronto Imp. British King. Second in service is
Huron's Lad, by Hawkshaw's Duke by the great Amber Luthur. All told,
there are eight brood sows that for perfect bacon type could not be excelled.
At present for sale there are a number
of both sexes, some of which are fit for service, and pairs can be supplied not
akin. Mr. Hallman has on hand yet
for. Tor sale a few cockerels that are good
ones. The farmm is connected with Bres-
lau by telephone so lau by telephone, so can be called up
from almost any point.


Chandian Inara Pher

Fifth Millitary Tournament The Armouriles, Toronto, Cunala,

April 29, 30, May 1 and 2, 1903,
 Parliamont Buildinger hry wim Tono



Winter in California
Sunshine and summer, fruit and flowers all winter long in California. The quick way to get there is via the Chicago, Milwaukee \& St. Paul and Union Pacific line. Three thro' trains, Chicago to San francisco, every day. If you're interested drop me a card. A. J. TAYLOR, Can. Freight and Pass'r Agt. 8 King Street East, Toronto, Ont.


OAN BE CURED.
Consumption uninterrupted meen
speedy and certain death. geody and certain death. Th made by Dr. Slocum, the Sunshine and hope for stricken Confacome of the vilue of hlo allo


## TREATMENT FREE.

 To enable despairing sufferers every-Where to bobtain speedy help before too
late, Dr. Slocum offers

FULL FREE TREATMENT
consistina of four laroir sample
 FREE TRIAL TREATMENT and the Four Froe Preparatonos will be forwarkd you tione thoum Systom is a positive cure for Consump
 Simpliouls


\& Where Will You 60 when
\& Where Will You Go when $\begin{aligned} & \text { Want to Borrow Money? } \\ & \text { It will pay you to borrow trom the }\end{aligned}$
Hamilton Provident \& Loan Society
The Society is al ways wilton, Ontario.




 $\left\{\begin{array}{l}\text { ererything else to the borrower. nearly } \\ \text { fulf wou wish to borrow write us with } \\ \text { full larticullos bind wivill } \\ \text { art }\end{array}\right.$

 your neighborbood. Addre
C. FERRIE,

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ANY 15 PACKETS FOR 25 CEITS ANY 32 PACKETS FOR 50 CENTS postraid




VERYONE wanting Garden and Flower Seeds should consider this special offer, as it discounts all competition. You will be surprised with what we send for a mere trifling expense. Large packets, new seed
and of finest quality. You can only get and of finest quality. You can only get these papers at this low price by ordering
direct from us. direct from us
If what we send is not as represented return the seed and price will be refunded.

We want you to try our seeds and prove their worth. Order now. Save money


Mr. W. D. Fith.
Mr. W. D. Flatt, Hamilton, out., in a
note regarding change of advertisement writes that he hais two imported bulls, ready for service, now for sale.

A few days ago, a representative of the "Advocate" called on the wellknown firm of Jersey breeders, B. H. Bull \& Son, of Brampton, Ont., and had a look over their splendid herd of 80 aead of choice Jerseys, and found yielding as usual, in splendid condition. yielding
an abundance of rich milk. That wonderful old stock bull, Monarch (imp.), is
still hale and hearty. For the lest three years bulls of his get have won at Toronto, first, second and third in the junior classes, and there are at present
on hand for, sale seven sons of his, on hand for, sale seven sons of his,
from a few months up to fifteen ${ }^{\text {mononths }}$ com, some of them already winners : also,
old, sons of the noted prizewinner, Bifr two sons of the noted prizewinner, Biry
of Dentonia. These young bulls are pll of Dentonia. These young bulls are
out of winning, tested cows. This firm
have lately purchased the richly-bred have Lately purchased the richly-bred
bull, Imp. Brampton Nameless King, bred by Wm. Rockefeller, New York, for a
long price: ; Bired by Imp. Financial Kigg, a bull for which the owner refused
the enormous price of $\$ 5,000$. His dam, Adoration, won first, on the Island
several times, and she is out of the several times, and she is out of the
champion cow, Nameless. Again, his champlon cow, Nameleso. Again, his
dam and sisters are all tested cows and
dat dam and sisters are all tested cows and
-hold the highest records in the world. This firm repbrts sales away ahead of
any previous year. Lately they have any previous year. Lately they have
shipped seven females and one bull to shipped seven females and one bull to
Hamilton, six females and one bull to Ni-W. $T_{\text {, one oto }}$ one Quebec, and one to
British Columbia. In females, they British Columbia. In females, they
have for sale any number of young have for sale any number of young
animals and a few older ones:
also a number of high-grade cows, heavy milkers, some fresh and some springers. Mr. D. O. Bull has
just been elected a life member of the just been elected a life member of the American Jersey Club, an
no other man in Ontario.
> clydesdales for cánada. Quite an important shipment of nine highly-bred Clydesuales was made from
Clasgow on February 23 rd by Mr. Oswald Sorby, Guelph, Ont. Mr. Sorby had been in Scotland for several weeks
making selections. Amongst the stalmaking selections. Amongst the stallions shipped are the noted Prince Romeo
(8141), and the Yearns Olpb sted horee. Ideal (10573), a pair of big, well-bred horses. The well-bred son of Baron's
Pride; Black Baron (10987), and Golden Pride; Black Baron (10987), and Golden
Victor (11056), are young horses of Victor (11056), are young
blood and merit. At Lord Cecils sale, Mr. Sorby bought the noted prize mare,
Baroness Montague, and her son, Baron Montague. Both were shipped with aniother from the same quarter named
Lady Calista (14167), the daughter of Lhe champion Edith Plantagenet. These, with e well-bred fily bred at Balmangan, complete Mr. Sorby's shipinent, several
in which were bought from Messrs. A. in which were bou

GOOD ONES FOR THE WEST. Messrs. James Henderson, of Belton, Ont., and J. M, Senderson, Indien Heed,
$\mathrm{N} . \mathrm{W}$, T., recentiy shipped to the latter place a good: consignment of draft place a gogi, consignmestesdale, Amphlon (imp.). a ahowy young horse of good
inality and action that won first as quality and action, that won first as a
three year-old af the 1902 Western b'air ; three year-old at the 1902 western Sorby;,Guelph, rising three years old, that took fifth place in an entry of seventeen
at the 1903 Toronto Spring Stallion at the 1903 Toronto Spring Stalion
Show; the Shire, Vulcan 2nd 318$]$, Show:. the Sire, wellington, Fonchill. Ont., and winning second at the recent Toronto Spring Stallion Show'; Prince
Llewellyn, the Shire, rising five vears Llewellyn, the Shire, rising five year
old, a big strong horse imported by Morris \& Wellington ; also, two extra good Shire mares, Lena and Mary, both
in foal to Morris \& Wellington's in foal to Morris . The great rush of settlement Mars. for good breeding and work horses will
result in this lot of stallions and mares

Plant Dimes-Harvest Dollars. Lact of nitrogen in the sol is
detrimenais to the size and uality detrimenal to the size and ounality
of the fruit. The cheapestas and mosi NITRATE OF SODA




 III.

"Firms and Softs" in Bacon. rat hoen do not mato... "orta" " grater poportion than oi iean oom tho taxperienow than it oolt loon, and Tor thio reseon tho timpreaton has boy
Come common that the fat hog to moro apt to grade soft than the lean one. Rushing a hog to maturity withont
due consideration of hts digestive organ due consideration of his digestive organ Rush most common cause of soft pork, ing his digestive organs the chief consideration, and you will not only make a accessfal rush, but you may be absolutegrade A1 "A Firm."
The Ingersoll Pork Packing $\mathrm{Oo}_{\mathrm{o}}$; in a amewhat lengthy letter, speak very de Herbageum to plga from atari to fintab and many of the leading breeders and exhibitors of hoga, among whom are Mr D. C. Flatt, of liligrove, and Mr. J. B . Brethour, of Burfora, speak very highly pigs thrifty and always ready for thele feod. It is an undisputed fact that the Herbae geum-fled hog always grades "firm," and 4o appatraice would indicate. om-

## Our

 SeedsHave been the standard of excellence for nearly half a century. We send by mail, postpaid, Seeds, Plants, Bulbs; larger parcels by express or freight. Direct deal will insure you the best and save you money. Try us. Your address on a postal will bring you our elegant catalogue, free.

## J. A. SIMMERS,

TORONTO, ONT.


HUMAN nature is pretty much the same all over-everybody looking for a chance to buy things cheap. The everlasting rush for bargains is well enough in its way, but you can't afford to juggle in regard to seeds. Weeks and months of time and energy will be wasted if you get poor ones and the only safe way is to insist on

## STEELE, BRIGGS' SEEDS THE KIND THAT GROWI

Never any disappointment with them. We charge what good seeds are worth to begin with, and keep the business on a solid foundation by improving the quality year after year. We have enormously the biggest trade of any seed house in Canada. Such things don't happen by chance.

All kinds for farm and garden on sale by all reliable dealers. Send for illustrated catalogue and place orders early. Insist on Steele, Briggs' Seeds, and avoid all substitutes.

## STEELE, BRIGCS SEED CO., wmo <br> Canada's Greatest Seed House

TORONTO, ONT.


McLAUGHLIN CARRIAGES ARE GOOD
CARRIAGES
 WE BUILID NOTHING KISE guarantee satisfaction. озhawa. ontanio.

## NO HUMBUG. Thoo

PLEAEE MEMTIOM FARMER'S ADYOCATE.


## coselp.

Registered Hereford bulls of breedin age are advertised in this paper by Mr. age are advertised in this paper by
R. J. Mackie, of Oshawa, Ont., whose
herd is one of long standing and first. herd is one of

Parties desiring to import cattle from Scotland should note the advertisement of Mr. James Boden, of St. Anne d enced stockman and breeder of Ayrshir cattle. His address, while in Scotland will be as stated in the ad., care IC

We have received from the Internationa Stock Food Co. their handsome cata logue for the famous stallion, Directum 2.052. The catalogue lists the per breeding, with photo-engravings of his ancestors, and, incidentally, mention that International Stock Food is being used with great success in the
national Slock Food farm stables. national this farm is headed by Dan
stud at thes Patch 1.59 1-5, Directum $2.05 \frac{1}{4}$, an Roy Wilkes 2.06t. It will be made great horse-breeding establishment.
FARNHAM OXFORLS AND SHORT: Forty-nine years is a long time for any tion, and when that reputation in proves with age it is the surest guar antee that the motto has been hones and square dealing. Such is the
heritage of Mr. Henry Arkell, of Farn ham Farm fame. This noted farm lies half a mile from Arkell Station, on th C. P. R., and four miles from Guelph,
on both the C. P. R. and G. T. R. I 1881 the present Farnham flock of Oxford Down sheep was established by th importation of a number of choice sheep from the leading fiocks of England, and ically, fresh importations have been mad and the flock enlarged and improved, until at the present time there are 28 head, comprising 125 one and two year
old rams, 35 of which are flock headers of rams, 85 of which are flock headers
50 breeding ewes, 28 ot $\cdot$ which have lambed and are now suckling over 50 lambs; the balance, younger ewes and ewe lambs. One of the stock rams is
Bryan's 125, bred by John Bryan \& Sons, Witney, England ; without doubt one of the best Oxford Down rams alive weighs, in ordinary breeding condition
 Hampton Hero 5 th, bred by J. T. Hobbs, Maiseyhampton, Eng. This ram is a prizewinner of note, having won second place at the Pan-American; first place
at the following State fairs: Illinois, Indiana, Wisconsin, Minnesota and St. Louis. With such a record, comment is
He cost Mr. Arkell $\$ 150$, and heedless. He cost Mr. Arkell \$150, and he considers him cheap at the money.
During the last year. Mr. Arkell has shipped Oxfords to Wisconsin, Ohio, Wiunesota, Indiana, Massachusetts, Maine, New York, Pennsylvania, Michi-
gan, British Columbia, N.-w. T., ManiCoba, Nova Scotia, Quebec and Ontario, and has over $\$ 800$ worth of orders now
booked for next fall.

BOOK REVIEW.
Any book reeriewed in this department may
be ordered through this affice. One of the most complete and concise works that has come to our desk is Engineering for Land Drainage," by Charles G. Elliott, C. E. The book is xceptionally well bound, the quality of Co paper excellent, and the typography lear and well executed. There are $؛: 30$ pages of good practical information in he fook, including many illustrations it is pricicipally intended for those who ie charged with the responsibility of making plans for and executing drainage nhorens, anyone doing drainage on a smatler (e.hnival schools,book in colleges and Kap. Our thans are wiley \& Sons, publishers, who have generously arice the volume in our office, where


Baby enjoys his bath all the more, and his sleep to the
sweeter when you use BABYSOWN SOAP

It ooftens and soothes all skin irrits-
toons keeping it heal thy and freath Don't use imitations on Baby. albert toilet soap co , mpas.

E. W. GILLETTT ㅇMNTNY

TOnOwTO, ONT


## COSSIP.

Mr. Wm. Howe, North Bruce, Ont breeder of Yorkshire hogs, writes "My stock is in excellent shape, and sales are very satisfactory ; have shipped stock to several States, also to Manitoba and different parts of Ontario hred have some choice young sows, jus also, a some yet to breed, on hand service few boars about ready for strong and numig stock are arriving are the get of Oak Lodge Justice -4822- and North Bruce, Herald (imp.) -7496-. These boars are both excellent breeders. I am also offering for sale a good young Shorthorn bull of a good milking strain.

On March 5th, Mr. Geo. Jackson, auctioneer, Port Perry, sold for Mr
John Morrison, of Whitby is retiring from business, his farm stoo and implements for the handsome total
of $\$ 6,225$. Six horses 17 Shorthorn cattle, $\$ 2,657$ (average \$156) ; 33 sheep, $\$ 400$; and 4 grade cows, $\$ 402$ Mr. Morrison had previous-
ly sold, this year, privately, $\$ 1,000$ $\mathbf{l y}^{y}$ sold, this year, privately, $\$ 1,000$
worth of pure-bred cattle, $\$ 770$ horses, $\$ 200$ of sheep, and has at least $\$ 1,000$ worth of fat cattle yet in his
stables. At the beginning of the stables. At the beginning of the year,
it is estimated, he must have it is estimated, he must have had ove
$\$ 9,000$ worth of stock and implements on his farm. Who will say that farming does not pay? Mr. Morrison, however,
was no slipshod farmer. What he did was no slipshod farmer. Whate
he made it a rule to do well.

$$
-\quad-
$$

Mr. Hharry Smith, E advertisement, ofiers some choice young
 "Among these is Vulcan, a very thick, blocky fellow, by Imp. Royal lrince 36092, and out of Village Maid, by Tupp.
Earl of Mar: imported Cruickshank cow. Village Blossom, who was the dam of the wellknown sire, Abbotsford, and the greatest of all modern Shorthorns, Young Ab-
botsburn. It is worthy of note that the dam of this young bull is now 16 years old. Her dam bred until she was over 20. Abbotsford, as fresh and useful as a two-year-old, recently
changed hands at a good price when nearly eleven years old; while Young Abbotshurn was long past the usual age of show bulls when he defeated all beef
breeds of all ages at the Columbian Exbreeds of all ages at the Columbian Ex-
position in 1893-a record for vigor and vitality that probably cannot be equalled by any other tribe of Shorthorns. All interested should send for catalogue of the young
is offering.

Thos. Mercer, Markdale, Ont., is well known over a goodly portion of the con-
tivent, on account of the splendid herd of Shorthorn cattle kept in his compo-
dious Mous barns, one and half Ther his untiring energy, Mr. Mercer is the owner of one of the best 200-acre farm in the County of Grey, on which stand
one of the best equipped stock barns in the Dominion. Ruuning along the cefling of the stable is a power shaft oper ated by one of Mr. J. McGills noted fread powers, connection with tere shan
being made to the straw cutter, grinder. root pulper, wood-sawing machine and threshing machine. Mr. Mercer's herd at present numbers
Stamfords. Clarets. Floras. Young Sterlings, Matchlesses. Red Roses and Fashions, headed by the superb bull,
Broadhooks Golden Fame. Vol. 19 Broadhooks Golden Fame, Voll. Kinellar
(imp.), bred by $\mathbf{S}$. Campbell. (imp.), bred by sired by the great bull. Scotiana
Golden Fame: ; dam Roan Rose, by Ab-
This bull is a roan of botsford 2nd. This bull is a roan of
the best build. In the herd are a large number of young females, from which can be picked winners, and any or all for sale. In bulls, there are
for sale that are fit for service, two of them especially good ones. Mr. Mercer
enjoys a splendld trade in Shorthorns, which extends from the Southern Statea o the Northwest Territories.
"PURE, MEALTHY, TASTY."
Their sale proves their worth.


CEYLON GREEN teas are displacing Japans, just as "SALADA" Blacks are displacing all other black teas. Sold only in sealed lead packets-25c., 30 c., 40 c ., 50c. and 60 c , per lb .

## THIS IS MR. T. L. PARDO'S (M.P.P.)

INEW BANEMMENT BARRI the finest and largest in kent co., ONT.

WALLS AND FLOORS BUILT WITH

## THOROLD GEMENT

WHAT MR. T.
Ordar Springe, Kent County, Ont., Not. 21, 1800
Estate of John Battles,
Drar Sirs,- I write to saig that we have now fully completed the Etabling in my new barn, apd I am well pleased with the work done through high, and a silo $14 \times 14$ feet, same height as walls, built in a corner of the basement wall, there boing econcrete floor throughout the whole building. result that our walls and floors are as hard as rock itself. T. L. PARDO.
Oours truly,
EST. JOHN BATTLE THOROLD, \{Manothoturers of "Thorola" Coment $\}$ ONTARIO


SH000 GRND GOMGEIT MOLII FOA S2.8.


## SEWIIG MACHINES Sent on 20 Days' free trial.

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身

For that lived feeliig whin thing donit go sight takte if it iop



to whid munt be a ttached.
bochimade to succuequiley quenter....3. iserappution
whelis fed to the limit with..... F banfecter
all grain thuested is cuighted earretty by
tathealy in season and youn Banklaccont coill case weigher he strong beforeit is cuded. D. L. D. Dle FOR CATALOGUE, ADDRESS

MENTION " FARMER'S ADVOCATE
J. I. CASE THRESHING MACHINE CO.y - Corner of Duke and Jarvis Sts., - TOnONTO, ONT.

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its excellence is in its

Quality,
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 Pulman. Wash . Easter Terim Connences April Is - Ansinesst olleqe

genuine Pratt's Astral Lamp Oil
SOLD IN ALL COUNTRIES AND RECOGNIZED AS THE HIGHEST-GRADE OIL MANU FACTURED.
WHOLESALE ONLY

 ELOHM MATIONAL WATCH COMPANY, Elect, nithole.

Gossip. GOSSIP.
$\begin{gathered}\text { Stockmen desitring pure-bred cattle from } \\ \text { the old Country are referred to to the an- }\end{gathered}$ the old Country are referred to the an-
nouncement, elsewhere in this issue, of nouncemen, Bodsewhere the old experienceat
Mr. Jas. Be the
 Scotland, to bring out an importation. lmprovement all along the Hine ts the atm of Mr. W. W. Milsson, owner of
Green Grove Stock Green Grove Stock Farm, situated in arey Co., ont., atout soven mifles north
of Markdele station on the Owen Sound branch of the C. P. R. A. Alow years
ago, Mr. Millson established a small but select herd of Shorthorn cattle, and
every year since, through careful and every year eince, through careful and
judtclous selection, has improved and increased his herd, till now can be seen in
hhs stables 85 heead of very chotce hls stable 85 head of very chotce
Scotch-bred cattle, representing such Scotch-bred cattlo, representing such
rare good familes as Missies, Urys, rare good families as Missles, Urys,
Clarets, Floras, Tsabellas, Village
Girls, Farty, Queens, Red Rosos, and Roseo of
Autumns, at the head of which is the noted sire of prikewtnners, Abbotsford
1944, whose record as a winner and Whose reputation as a sire of winners
is well known all over America, and who dosplte his ten years, As toricay, and active as a yearling. Second in service is the
splendtldy-formed ball, Freebooter 39509 $a$ son of the noted stre, Imp. Knuckle
duster. In Mr. Millson's herd can duster. In Mr. Milison's herd can le
seen the sweepstakes winners and winners of the herd prize at the eeading
northern shows last fall. Nothing in the herd is reserved, and in males there are several from $a$ few months to a year
old, the get of Frebooter, Imp. Wander-
 Fitz Stephen Forrester, and a a rare good
lot of bulls they are. Write Mr. Milllot of bulls they are. Write Mr.
son, to Goring P. O., Ont. rroadita Rroadiea oxporns.
This magnificent herd of Oxford This magnifcent herd of Oxford Down
sheep was eotabilished twelve years voo.
by the late
Henry Arkell Ont., by the timportation of a nueswater.
andimals, esected animals, selected for their sumeriorty
Indivlually, trom the leading focks of
Oxtord Fill
 every case the best that money would
huy were selectes and the enomous de
mand for or oroadileat oxfords. not only
in Canada, but from difierent parts
 shows that Mr. Arkell's venture
was duly appreciated The fock at
meresent numbers 110 hend. every one of
 trom is im rorted tspork, nothing but the
choicest imported rams having ever ben Choicest inported rams having ever been
usied on the flock, and a a look over them To their various pens will convince the
most skent cal that Broadlea Oxfords
have teon the have feve equals, and no superiors for
size. form, quality and covering. Since
 owned by his son, Mr. W. H. Arkell, a
young man of sterling integrity, and
whose knowledge of Oxtord Down sheep is equalled by teve of There are on hand,


The Incubators





Poulty and Eggs Wanted OHICIENS
OUOKS
Onply ormten formaried on
appliontion $\left.\begin{array}{l}\text { DUCK8 } \\ \text { TURKEYS }\end{array}\right\}$ Higheos marliet priones paid. GEESE Correepondenco sollilited. o Toronto Poultry and Produce Co.
OFFIOE: 740 YONEE ST., TOHONTO. EGGIS FOR HATOHING


Fon: 100 Mammoth Bronze Turkejs sired by 33-1b. inported tom Aloo a oholioe lot of R. G. ROSE, Glanworth, Ont.


$\overline{\mathrm{P}}$ lymouth Rock COCKERELS.
A selected number of very choice vockererels


eossip.
In addaltion to his ad. for seed oats John Campbell, of Fairview Farm, Wood ville, Ont., places in this issue an ad oflering Barred Rock oggs for hatching He has a very nice yarc of birds, and one kind only, which have proved con-
stant layers the winter through, far be stant layers the winter through, far be
Jond the average. Birds sent out last Sond the average. Birds sent out last,
season, as advertised in "Advocate," gave universal satisfaction.

We are pleased to learn that the favor
able mention made in these columns of Dalgety Bros.
Clydessales
latest impgtation or or weldessales, in our last issy has been
well sutained, as shown by their sales.

 Weston; also, to the same purchaser,
the grand filly, Duchess of Millfeld, Vol, the grana fily. Duchess of Milifield, Voll
25, got by the noted Marquis of Mrll
feld 10813. To Coumhlin Bros Col
 gary, Alta.. the darlk brown four-year-
old Clyde stallion, Brymbo, weight 1,700 los.-a good, useful-looking sire, with
plenty of bone: Also, Welteck-dark plenty of bone; Also, Welbeck-dark
chestnut Inckney stallion-sire Duke of Connaught's Helr, Took second prize
Cotter at Cottingham fin fold of eighteen ;
 Alexander Albert 10840, was bought by
Mr. J. L Patteraon who he ir. J. L. Pateraon, who had intended chase, but was well satisfied to parchase from Dalgety Bros, Instead. Prince Alexander Albert has all the action and Style of a Hackney, and should prove a
valuable sire for his owners. There re valuable eire for his owners. There re-
mains yet. the handsome bay Olyde stallion, Dividend 10729., rising Ave, siro Pandora's Prince: dam Daring vill. Ey Cairnbrogio Stamp. Ho is an unto Prince of Wales ; stands seventeen bands, and welghe $2,150 \mathrm{lbs}$. Although only just landed from as sea voyago of enenty-four days,

Wen for 耳ataineme
 H. GEE \& sons, of Fisherville, ont

Egge for Hatching

 Pisin Conlar Vale Poultry Yards $=$



 S. EBees for Hatoring:

 SAFETY IICHDQUOS
 J. E. Illeyer, - Gourook, Nu
 MORGAN'S Ineubator works, London, ont.

 EgGs FOR HATOHING


THE SPRAYER SONG AND STORY.
Why not join the chorus of our pleased patrons:
"WF F ing the gong of tbo Sprayer strong,

The Aylmer sprayer $\mathrm{L}_{\mathrm{O}}^{\text {ONG-LIVEMD, boonueo woll mado; not }}$ p Superlativaly demple: no soot poolicin to seg and loosen; mechhanically perfoct spring rings hold aul the prosure $\frac{\text { Thorough agtation witiln the barrel }}{\text { before spraying, and always at politite }}$
 1
writ now THE A YLMER IRON WORKE,

## 981/2 POINTS

Highest Score at any Dairymen's Convention this season, was received by butter, made from cream separated by a
THE U. S. SEPARATOR WINS HIOHEST HONORS at IIANY OTHER STATE CONVENTIONS

TME MOMEST SCORE AMESTOWN, Dec. 9-12, 'o2. PONTS.
HIGMEST, SECOND HIGHEST AND THIRD HIGHEST SCORES

Nebraska, Lincoln, Jan. 22-23, '03.
HIGHEST SCORE OF ALL
Buy the U. S. Separator if you wish to make the Best Butter. VERIIONT FARM MACrilNE CO., Bellows Falls, Vt.

## BIBBY'S for CALVES

CREAT EOUIMALENT is used to substitute eow's milk where milk is scarce. 50 lbs. $\mathbf{\$ 2 . 0 0}$; 100 lbs. $\$ 3.75$

## Came in Emolant





GOing to Buillal ?
A new house, liann, sllo, conerote floor, or any other such work? If so, use Oureenston Cement

 fermant turucucures built of the itif ferent struds of cement, and then
they would know which is best and cheapest. We especially request patrons about the new - process latter part of last season. Do not who sell the goods most profitable to themselves. Write for prices, We can save money for you

INAAC UNHER, QUHENSTON,

ONTARIO.

dress s. 8. D
ENGLLSH SHIRE STALLIONS


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 in the Dominion including first-prize winnerat Ros al Agricultural Stow in hngland, and Winning
more prizes at Industrial more porsizes Industrial
and other large shows that
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Stallions and mares all ages, home -bred and
imported, al wass for sale. Uver 50 to ct oose MORRIS \& WELLINBTON,
Fonthill P. O., Welland County, Ont.
Registered Clydesdale Fillies Tho well mathon ine

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 JOHN HAUSAM, $175 \underset{\substack{\text { Bem } \\ \text { B. RACINB, }}}{ }$

 The CREAMERY SUPPLY CO., Guelph, for South-wastern Ontario. The T. C. ROGERS CO., Guelph, for Ontario North and East. JOS, A. WERRICK, Winnipeg, Wan., for Manitoba and M.-W. T. JOHN A. ROBERTSOll, IO8 Union Avenue, Montreal, Quebec.
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## GOSSIP.

Mr. A. B. Armstrong, formerly of vertiser who has long been an adpoultry and collie dogs, in the "Farmpoultry and collie dogs, in the "Farmer's Advocate," writes: " 1 beg to an-
nounce that I have formed a partnership with my brother for the bettering of our
wind facilities for supplying the trade with facilities for supplying the trade with high-class stock. The address will now Ont. We have disposed of all our fowls except the Barred Plymiouth Rocks and White Wyandottes, which breeds will be White Wyandottes, which breeds will be kept on separate farms and with unhited range. We can supply eggs for
hatching from first-class stock. hatching from firs
stock of breeding sows, and are now our a position to supply the are now in a position to supply the most exacting customer. One of our stock boars, sire and dam, and has plenty of quality. He has proved himself to be one of the most successful sires in Ontario. The other stock boar is a younger hog that
will make his mark in will make his mark in breeding circles.
". In collies, we have some of the handsomest females that can be found, and they are bred or ready to breed to the best sires to be had. They are handsome, active and good workers."

Mr. C. Rankin, of Wyebridge, Ont., re ports the sale to Mr. J. J. Kiteley,
Dunkerron. Ont.. of his imported Shorthorn bull, Gladiator. This bull was bred by P. L. Mills, Ruddington, Eng-
land. He is a red, of great substance, land. He is a red, of great substance,
and has proved himself to be a grand and has proved himself to be a grand
broeder. His sire was Pride of Fashion (73239), by Pride of Morning (64546). Duthie's sale, 1902; dam Imp. Gladys, socond highest-priced female at the
Hamillon sale last January Hamilton sale last January. Mr. Kite-
ley is to be congratulated on securing thls excellent bull. Mr. Rankin has paid careful attention to the breeding of
Shorthorn cattle for severial years. Shorthorn cattle for several years. He
visited Scotland last summer and selected a nico lot of thirteen head, which have lately arrived home from quaran-
tine. Pride of Scotland is now it the head of the herd, bred by Mr. Watson,
Aberdeenshire Aberdeenshire ; his sire Clifton (74241).
 massive butld, and was bought at a long
figure in Scotland. He is out of the figure in Scotland. He is out of the
same cow as the celebrated Lord Banfi, which Mr. Flatt sold in Chicago, 1901.
for $\$ 5,100$. Among the females is Merry Yor $\$ 5,100$. Among the females is Merry
Lass, a red, three years old, sired by Fortune (70467) ; dam Meriv Lass 4th, by Tip Top. She was bred by Mr.
Cameron, Balnakyle,
Ross-shire Cameron,
second-prize
Balnakyle,
winner at Ross-shire, a second-prize winner at the Highland
Society Show, 1901, and is a heifer of extra front, plents of depth and thickness. Another three-year-old. Deeside Lass, bred by J. Young, Maryculter,
Scotland, sired by Scottish Prince (73593); dam Rosio. Scottish Prince calf, a heifer, by Lord Metheume (79281), and is in calf again to King of Fame, bred hy Mr. Durno, Jackston. Lovely,
bred by Mr. Shepherd, Shethin bred by wr. Shepherd, Shethin, Aber
deenshire, a nice roan of coodl quality sired by Cyprus (66894), a Collynie-bred bull ; dam Lovely 53rd, by Mirabeau. An exceptionally good red heifer is Prin-
cess 3 3rd, sired by True Scotch cess 33rd, sired by True Scotch (80128); (71789). Butterfly 54th, bred by John Marr, Aberdeenshire, got by Luxury (74958), dam Butterly 50th. This is a blg red growing heifer, not two years like making a cood cow a typicat breeding heifer will be found in Baroness Cromvell, a stylish roan, bred by Sir John Gilmour, Montrave, FHe: got by
the preat bull. Spicy Baron the great bull, Spicy Baron (77944) ;
dam Jady Cromwell, by Royal Jamea (54972). In a younger class is a beautiful red, Dalmeny Veronica, bred by the Earl of Roseberry, K. G. Her sire is
Golden Gift (81168) Golden Gift (81168): dam Veronica
8rd, by Minateur of Dalmeny. The other 3rd, by lrnaterr of Daimeny, The other heilers to Rosicrucian of Dalmeny. These are all for sale, as also are two red
bull calves, six months old, by Imp


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 are now onferng a number of choice
and a few young talilions，winners at
fow nico harnss hores
sicorthorns of both sexes for sale．
B $\#$ ．


GOSSIP．
The following is the list of animals， with the purchasers and price paid，at with the purchasers and price paid，at
the recent Government sale at Guelph： Diamond；W．D．Flatt，Millgrove．．．．\＄275 Diamond；W．D．Flatt，
Thomas Ingram ；Hector Parker，
 Earney Barnato；Robt．McEwen， Byron 4th：S．H．Farrell，Kin－ Yorick 4th ；S．H．Farrell，Kin．．．．．15，
cardine Ramsden ；A．J．C．Shaw，Thames－ ville ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． gal Royal A．A．．．．．．．．．．．．．．．． 15 Victor of Hillhurst 2na；F．Stur－ dock，Ponsonby
Scotland＇s Hero
Richard Willixums． Scotrand＇s Hero ；Richard Williwus，${ }^{145}$
Craighurst
Crimson Prince ；Jas．McEwen，Me－${ }^{145}$ Crimson Prince ；Jas．McEwen，Me－
lancthon lancthon
General Buller ；A．A．F．．．．．．．．．．．．．．．．．．．．．． over
Prince
Comet ； Donald of Hillhurst．Colwell Bro．．．．．．． 130 Donald of Hillhurst；Colwell Bros．，
Newcastle John Gilpin ；

| $\begin{array}{c}\text { John } \\ \text { ren } \\ \text { Red }\end{array}$ |
| :---: |
|  |

 Sir Garnet：Arthur Johnston． 110 Prince of Kenwood：Alex．McCaig． Aberfoyle
Hon．J．I．I．
$=$ may ．．．．．．．．．．．．．．．isher，Mild－
 Johnny Cape ；R．H．Lehman，
Orillia Buchan Hero：R．Moodie，Guelph．
Crown Jewel Park ，W．Keyes，11yde Prince of Peel ；Peter Campbell，
Amberley Good Stock；Jno．Thompson，Ches－
 Minnedosa，Man．Geo．Fraser，
Sir Oliver：M．J．Mckillicuddy
 Missie＇s Boy ；J．A．Cockbu Prince Younger：Geo．Tucker，Bos－
worth

 Ked Beauchamp；Geo．Fraser．．．． British Consort；Fraser ．．．．．．．．．．．．．． bank of Kay，River－ Rockingha
land ．．．．W．W．Claus，Vine－ Kinellar＇s Pride：
Bridesman 2 H．Kean，Guelph． now ．．．${ }^{\text {nde }}$ ；S．Fraser，Luck－ Onward；Jas．McBride，Goderich．
Prince of Coverdale：Andrew Porter． Prince of Coverdale：Andrew Porter，
Guelph Silver King：Jno．King，Hills－ Ian Beauchamp ：J．W．Kerr，Mor－ ristown
Bruce Landsdowne；Jacob Gies， Bruce Landsdowne；Jacob Gies，
Macton
Chief Justice：J．M．Roth．Tavi－ stock
Prince
Soln Prince Flder：$: \quad$ Geo Oliver，Galt．．．
Johnny
Bruce： $\quad$ Wim．Wilson，Hur Rockingham Boy ：J．Girroy，Gait
Scotland：S．Fraser，Minnetosal Roan Prince；Alex．Erskine，Ilut Bertha＇s
Elgin Offif：J．Muir Port Warder ：W．Holland，Alliston
Beauch imp 4th： Bloomingdale
Hopeful Red Prince：Mrs．A．Quarry，Mont－
rose Mabomel：J．©．Evans，Guelph
Sir John；A．S．Mclae．Rolsover Sir Wohn；A．S．McRae．Rolsover．
Sir Ceorge White；1R．Mokiml
Orangeville Moorland Andrew ：Wm．Hearn．To，
ronto Matchem Sailor 2 nd ；Sol．Nelson．
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large Standard and registered stallions large Standard and registered stallions
that have shown good speed, pedigrees that have shown good speed, pedigrees
and particulars of which will be supplied on application to proprletor.
A. M. Shaver, Ancaster, Ont., writes
. Sales are good. Our Shorthorns are in Sales are gooa. Our shorthorns are in farmers would rather pay a we for more dollars and get quality, even for grade herds. We have just added the noted
stock bull, Imp. Christopher $\Rightarrow 28859=$, to head our herd.

Mr. Jas. A. Russell, Precious Corners, good demand and sales of over 20 hoars and as many sows since September last. One four-months sow left for sale, from the imported sow bought from $\mathbf{D}$.
C. Flatt at a long price, good enough to win next fall under one year. Two imported sows to farrow to imported boars in April and May, and litters wil

Mr. Smith Evans, Gourock, Ont., writes: "I wish to draw your attention to an error in one of the January
numbers of the "Advocate." in regard numbers of the "Advocate," in regard
to prizes won at Guelph Fat Stock Show. It read thus: 'K. Findlavson
won first, won first, second and third in wether
lambs.i It should have read tha lambs.' It should have read thus:
-Smith Evans, of Gourock, Ont., won first, second and third for wether Tambs.

Mr. W. O. Burgess, Queenston, Ont.,
advertises, in this issue advertises, in this issue, eggs for hatch ing of a noted prisewn that has won highest honors at New York, Boston and Philadelphia shows. His hens, he says, are daughters of the first and second
prize winners at the above shows, and prize winners at the above shows, an
have been bred to a very fine "Bright " cock, and have tails rarried well down. The settings are of 15 eggs, and
price is reasonable. See the ad.

Attention is directed to the advertise ment, by Dr. S. S. Dickenson, Veterinary book, sooul to he issued, on the new book, soou to be issued, on the treat-
ment of domestic animals in health and
disease ${ }^{\text {Twenty }}$ years' experience in disease. Twenty years' experience in
such treatment should qualify for sound such treatment should qualify for sound
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include prescriptions for the various nilments of horses and other farm stock, as well as advice and instruction in
judging and buying horses and guarding against tricks of unscrupulous deelers.
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to the Doctor for the prospectus of the boot

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Our good oid tamily physician, Dr.

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halers, sprays and
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seribes the Carter wire Fence Machine scribes the Carter Wire Fence Machine,
with which a farmer can with which a farmer can weave a wire
fence right in the field. Agents ane wanted everywhere to sell these machines and the Carter coiled wire.
farmer brichton, of Fairfeld Iowa, is just, entering upon a new adver lismg campaign in this paper. It
is apparent that in the is apparent that in his combination
tool the Swino $v$ to prevent hoga tron rooting, Cattle Dehorner and Stock IIrark-er-Farmer B. has something which other farmers want, and buy uberally, else he
could not aford to advertise so regularcould not afford to advertise so regular-
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bug," and accompanied by a cut showbug, "and accompanied by a cut show-
ing the tool and $a$ hog's snout operated Mpon to show how it works. Look up this id., if you keep hogs or have occa sion to mark or dehorn.
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torerst throughout Canada, and this is
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THE FARMER'S ADVOCATE.

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It. Elgin Co., Ont. $\qquad$
Messrs. H. Cargill \& Son, Cargill, Ont., make a change in their advertisement in which they offer imported with calves at foot or in call to their best imported bulls; also, Oxford Down stock. See notice in March 2nd number of "Farmer's Advocate," page 240, re-
feering to Messrs. Cargill's new tabulated catalogse and the character of their herd Send for the catalogue. ovestided. but shows all sides of the

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RANGLES is an acute, febrile disease affecting horses.
It is most common in young animals,
and is characterand abscesses formbones of the of thy ordinury eharcoal tableta. - In anv.
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## ther points.

appetite, staring guor, dullness, loss of appetite, staring coat and general unbetween the Jaws are swollen and ex-
tremely sensitive to the touch. There is a rise of temperature, with. There pulse rate. Sore throat is shown by food and water returning through the nose or dropping from the mouth. As
tho disease progresses, abscesses in the glands point and break. Treatment.-Animal should be placed in
a a well-lighted, clean box stall, where the
temperature is fairly even, and suffieient temperature is fairly even, and sufficient
clothing should be applied to keep the clothing should be applied to keep the runs high, say $104^{\circ}$ to $105^{\circ}$ Fahrenheit, and the pulse is strong, give 10-drop
doses of aconite with hall-dram doses of fluid extract of belladonna in an ounce of sweet spirits of nitre, three or four times a day.
If the throat is much irritated dram doses of chlorate of potash with two drams of powdered golden seal placed on
the tongue three times a day after feeding gives good results. duces the vitality Troubles, strangles rebo neglected. Administer, as directed, regular doses of inr. Hess
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then siince Dec. 1st, 1902; orer 20 of the lot have gone into the State of Maine Have sold all I care to sell at the pres-
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sale on April
th.
$I_{i}$ find that the ' $F$ armer's Advocate' has no equal as an advertiser of stock for sale.

Mr. Mac Campbell, breeder of Shorthorn cattle, Leicester sheep and Berkshire swine, writes: "I beg to, say
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Being a daily mail, it will put me in a Being a dailly mail, it will put me in
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See the ad., in this Issue, of seed oats, py T F Bowman, Berlin, Oty potatoes, he clatms, are large and smooth, free of scab and rot, and only Varieties that proved to be the best yielders and best quality for a num
bet per of years were planted last spring
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Shorthorn bulls Enolish Berlsshices Improved Chester whites ant and Write Mr. Bowman for prices

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Annes,
One is from
grandsire (imp.). Her grandam is l.ottie, with milk record of 64 pounds , .er day, The
other heifer is a mrandldumbter Beauty Stye of Au A henbraindaughter of (imp.). The
hull call three monts. bull calf three months old is a qrandson
of Beauty Style of Auchenbrain, and his danes was third-prize cow in Guelph dairy Cest. The other calf is from Royal
Star. $\begin{aligned} & \text { His dam is Addie. with milk }\end{aligned}$
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