## PAGES

MISSING

## THE GREAT DAIN Iay Lodder


 hub omo tan Haonine pubae the Moemt pullany haek off the waoo.

 can do it imahine that is proeminent tor



The Dain Mig. Co., Preston, Ont The Fairchi'd Co... Winnipeg, Man


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"It is always a mistake to plant old seed, and often it country, but not very rempote nor too different in climate,
Seeds of weeds that are hard to kill out are sometimes Seeds of weeds that are hard to kill out are sometimes
found in field and garden seeds, and precautions must be
exercised against them, exercised against them."

The above is a quotation from Farmer's Bulletin, No. 94, of the United States Department of Agriculture, and its application to Canadian Growers is this

Rennie's Seeds are fresh. They are Northern grown and adapted to the Canadian climate. They are carefully selected and free from weeds. This is a plain statement of facts,
and we stand behind it with a record of thirty-

> WM. RENNIE C Cinure

Ask your dealer for
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PAGE ACME White Fences Any height to 8 ft . $\begin{gathered}\text { Any } \\ \text { length you say. } \\ 16 \text { cents a foot. }\end{gathered} \begin{gathered}\text { From } \\ \text { Gates }\end{gathered}$ 16 cents a foot. Gates
to match, from $\$ 2.25$. Last longer. Easy to
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Lightning has no effect on them. They are absolutely fireproof. Rain and snow-heat and cold-can't rust, crack or warp them. The perfect fitting side lock (exclusively Eastlake) makes the roof absolutely leak-proof, and cost of putting on much less.

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We guarantee Eastlake Metallic Shingles to be made of better material, more scientifically and accurately constructed, to be more easily applied, and will last longer than any other Metal Shingle on the market. Our guarantee is absolute. Our Shingles have been made since $1885^{\circ}$
Eastlake metallic Shingles are made either galvanized or painted. They are handsome in design, attractive on the house and last a lifetime. O cheapest grade will last longer and costs less than the best wooden shingles. Our best Metallic Shingles make as superior a roofing to wooden shingles, tin, slate, etc., as these were to sod roofs. Let us send you the proof. Write us. Complete information free.
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raiser is dircoted to the efmienocy of the
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It is the one artclele that no farmer can
afforat to be without.
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the



We manufacture a full line of Comb-

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CHEAP FENCING
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The Oshawa WIre Fence Co.'e Factory will be sold in June, and I mast olean out all Wire Fencing and Gatea than for some Wire fonoing is much deare: cheaper.

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wire gates.


Whi.e the stock lasts.
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 Nureory
Ont. Telephone 2222

There are two young men of St. Louts partners in a business concern, the vounger of whom for a long time was other extracts from letters of a to the nature penned by a young woman of Chicago, signing herself "Claire." so very long arter, the elder partner re
turned from an Eastern trip in turned from an Eastern trip in time to
attend the wedding reception of his riond and business assoctate. In his best manner the senior member of the firm
offered his congratulations "I do not feel that I am addressing. stranger," said he, "seeing that I have hearing extracts honor and pleasure of letters." " I beg "I beg your pardon," responded the cus expression, "but my name

It Pays To Be Right
A mimet
A =ixime
That is one place This extra wide binder is provided That is one place where mistakes $\begin{aligned} & \text { with a tongue truck, which reduces } \\ & \text { are specially costly. To draft and weight on the necucs }\end{aligned}$ Tome suc are specially costly. To come sucVest time, and then fail of a just reward
because of inferior because of inferior or imperfect har-
vesting machines is unfortinate vesting machines is unfortunate, in-
deed. You may make sure of succes by buying a Deering binder. The Deering is designed and con structed with a view to efficient and
long continued service. It meets full the most exacting demands of the
grain grower grain grower.
Should the grain be tall or short. Hight or heavy, standing or down and tangled, the Deering will harvest it all
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ceing of unusual capacity
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I have the following number of 50 -bushel londs of manure p-r vear
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The Parls Plow Company, Limited, Panis, Ont western Branch: Winnipeg, Man.

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pecial bteel, special galvanizing hard, atiff, spring wire. used in the
American woven wire fence
Tension curves
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Hinge joint allows the
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Gilt Edge, 650 ft., Pure Manile
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Made from high-grade materials. Long, strong, evenly spun and properly balled
Maple Leat 550 ft., Standard Manila. Specially treated to make it insect-proof Maple Leaf, 500 ft., Standard. SATISFACTION GUAPANTEEI.

The Brantford Cordage Co., Limited Brantford, Ont.
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## POTASH <br> FOR FIELD, GARDEN AND ORCHARD

fertilizer important plant food may be obtained from all leading muriate of potash and sulphate of potash throughout Canada the incroased demand for these fertilizer to prevent disappointment year farmers ought to order at once and nitrogenous fertilizers Pash in conjunotion with phosphatic Eatisfactory results. Testimony to this effect is becoming more
frequently heard each day frequently heard each day. Wertilization at ance four our FREEE publications, treating of the various crops, as well as of the
results of fertilizer experiments in Canada and elsewhere
The Dominion Agricultural Offices of the Potash Syndicate Rooms 1102-1105, Temple Buildins, TORONTO.

You can put on a roof that will last a hundred years and be the
right kind of ar roof every
minute Or yon man minute. Or you can put on a ten-year roof," for a century, enuaranteed, in writing till 1932,- -ire hits it, and keep leaking till it is rotted away. Four-dollars-and-a-half a aquare buys "Oshawa
hits it, and keep leaking Either is roof will cost you about the same in money at the start. But the "Oshawa" shingled roof will be FIRE-PROOF-literally; and wind-proofactually ; and lightning-proof-positively. That's the hundred-year roof! And that "Oshawa"-shingled roof will be weather-proof for a centary. We'll GUARAN TEE ith every way for Thirty-Two.
Guaranteed in writing for 25 years-and you needn't ever, paint it, something, isn't it? What would your mill-man say if you

> | Oshawa" Galvanized Steel |
| :--- |
| Shingles are GUARANTEED in |
| every way for Twenty-Five Years |
| Ought to Last a Century |

d GUaranterd And GUARANTEED anteed in writing, over the seal of a company with a
giuarter-million
capital. guaranteed in plain English, without any ifs
or buts, or buts, for 25 long
years,
That, years,
That's the argument in That's the argument in
nutshell-cost the pame asked him to guarantee cedar shingles for even as wood-shingles; fire - proof, water - proof, rust ten years? He certainly would make remarks! proof, lightning - proof; easier to put on; and And even the best cedar-shingled roof will be Tell us the measurement of any roof, and weill tell
leaking badly inside of ten years. Seven out of ten of them leak the first time it rains. No woodshingled roof is fire-proof for a
minute, and the first high wind minute, and the first high wind
that catches a loose shingle-
 you exactly what it will cost to roo
it with less work and for less money. Plenty of facts that concern your pocket-book come to you as soon as
you ask for our free book, "Roofing Right." A post card will do to Why don't you ask now ? over into the next township. The Pedlar People



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## This Year Plant PEAS

Field Peas have sold high for soveral years, -75 and 77 cents a bushol, ias year. This year's oxport demand will
be keen,- - profit there for shrowd farmers.

P P P
Two proits in a pear-crop,-the peas and the vines, - rich
valuable green mantoder, high in nitrogen, Now that the pab.bus has quit
busines in Canada, peas PAY and $\substack{\text { geniness in } \\ \text { basy BIC. }}$

P P P
 -does well even on tirer A land, -and for all you can raise. Plant poas
oarly, -April and early May is bost.

SOW
some
soon -
STOCKMEN
1in m-s mand


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THE "NEW-WAY" MOTOR COMPANY Brighton, Ontario.

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## Queenston Cement

suocesutully uned by the farmers of Ontario for over º yearr. Direet from manufactarer to oonsumaer.
Positively the beat and aheapeit
 formation oheortally eiven. Write an.
Isaac Usher, Queenston, Ont.

# Last Mountain Valley Lands <br> We own thousands of acres of Choice Selected Land in this 

 district, which is in the heart of the
## GREAT WHEAT PLAINS <br> OF SASKATCHEWAN

## Ample TIMBER for All Purposes

Prof. Thos. Shaw, after personal inspection, writes: "This rich and beautiful farming section lying in the vicinity of Last Mountain Lake, embraces one of the finest areas in the Northwest. The land is undulating in this region, mostly open prairie. The soil is rich black vegetable loam, from one to two feet deep, and is underlaid with a clay subsoil. Frost, to injure the wheat, is virtually unknown. Being thus favored so highly by nature, it is not surprising that the production of wheat in this region is phenomenally high; in several instances forty to forty-five bushels per acre have been reaped. Oats, Barley, Flax and all small grains yield relatively as good as those of wheat. Potatoes grow most luxuriantly. Two or three years ago there were not more than thirty-five settlers in the entire areat ; now there are over a thousariantly. and others
rapidly coming in."

Send 25c. for our beautiful new photographic souvenir, entitled "The Lake and Lands of Last Mountain Valley," which is not only a work of am, but a book of authentlo
Wm. mation. We will also send Atlas of Canada, Maps, etc. Pearson Co., Limited, 304 NORT路期N BANK BUILDING, WINNIPEG.

\title{

Che Farmer's Ypdvocate

\section*{- Persevere and

## - Persevere and Succeed.'

$c$

Vol. XLiI

## EDITORIAL

THE O. A. C. AND THE ONTARIO WINTER FAIR That the dairy industry has a good friend at Toronto in the person of Hon. Nelson Monteith, Minister of Agriculture for Ontario, is evident rom the fact that over $\$ 85,000$ has been set aside in the estimates this year for purely dairy efinite in including the somewhat in lists and demonstrations in the Dairy Departer our numerous annual fairs. The figures represent an increase over last year of something ike thirty thousand dollars. Nearly $\$ 28,000$, or to be exact, $\$ 27,915$, goes to the work of the lege; $\$ 35,000$ is for the work of dairy instruction which has been taken over this year by the Department of Agriculture, to be administered from Coronto, and the rest is for the Eastern and dairy schools, at Kingston and for the two latter of which, by the way, is to be wound up

The best thing about this generous grant is hat every dollar oi it is to be expended for usehe crux of the situation, in so far as Provincial id to the industry is concerned. There is no lavish handing out of funds for purposes of questionable utility. This is good, because, while , ond where we are sure of getting value back on the other hand ten cents would be too much lay out without prospect of return. We are prtant prineipe in uonevs. public
There may have been a shade of disappointanent in some quarters that he did not see fit to waited on him in March to ask for a grant of \$,000 towards the holding of a National Winter 1)airy Show in St. Lawrence Market, Toronto. On
t, Chalf of this enterprise, it was argued that the dairy interest is inadequately served at the present winter fairs, Guleph and Ottawa; that a great secial dairy show at some central point is demakers, dairy-stock breeders, dairy-supply firms and others together for their mutual education, ings of the several organizations pertaining to the Qairy business. Beyond the Minister's public utit it is certain that his objections to making his grant were based on broader grounds than a mere reluctance to part with the few thousands of Ontario has at Guelph and Ottawa a couple of - unique institutions, unequalled probably by any at Amherst and in the West, which have been nodelled after the Ontario pattern, for practical ducational value. We have worked the idea out rride in the results. Moreover, the possibilities e in the results. Moreover, the possibilities
he way of their extension are indefinite. It Mr. Monteith's avowed aim to use the Guelph air. at least, as the nucleus round which to build

## the Farmer's Advocate

and Houne Magazine. dominion journal in this EEE WILLIAM WELD COMPANY (Lention john weld, manaera
 $\qquad$ Winnipgo, Man.
-w. W. CRAPMAN
London (Emeland) Ofryces


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ARI COMMUNICATIONS in reference to any matter connected
Oihis paper should be addresed as below, and not to any Addros-THE FARMER'S ADVOCATE, He WILliam WEld company (Lnerted),

London, Camada

an earnest of the rising spirit of the times. dations crystallized into some of its recommen the next session of the Dominion Parliament

FREE RURAL DELIVERY-WHEN Already, during the short regime of Hon. quired the United States authoritics to thas re rates on second-class matter, such as newspapers our cents per coming into Canada from one to authorities to reduce the rates on second-class two cents per pound-all of which is designed periodicals in this country undesirable class of sentiment and business with the motherland, hy
encouraging the circulation of British periodicats As another move in the direction of improving the Canadian postal service, a stipplementary to extend free delivery of mail matter to the smallen and the population reaches 10,060 or $12, \ldots 10$. including the West, with a view to improving $t$ inquiry into the postal needs of the acricult areas of the Dominion, including free ruralt-mat ways, no hint is given up to this time in oth.

## A WELCOME ARRIVAL

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I think your paper a very fine farm fourna
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ivery progressive farmer ought to read ." Th
armer's Advocate.

## HORSES.

## FOALING TIME

 oh is done to poor advantanhe hands of thorough of early foals, and. results being obtained, but the rank and file come the latter end of prefer to have the foal is over In cush and the spring rush so marked, and where the if the May foal would be most would appear as point will need to be considered by farmers whis eturning mares this season, as some catch when on the previous year Almost invariably better results are obtained irom working the mares right up to foaling time. The udder is thus kept from becoming to be irritable with the foal and the foss likely rarely constipated. The writer has taken mare out of the harrows to foal, and the ofispring were puzzled as to the signs of immediate people are the record kept from the service is frequently as accurate. In addition to the increasing pendul ousness of the body, two signs are pretty re appearing within two or of the teats, usually and the drooping over the rump, due to the act laxation of the ligaments, one of nature's pro body as the result of expulsive effort of a large of the mare. Some mares run milk for par before foaling, a sign not at all welcome by horse breeders, who claim that such usually has been fed a laxative diet, a little mare flaxsced and bran, and limited a little boiled grain, as well as being worked, little trouble need. When it regarding constipation in the
foal occur, it needs very careful attention. A homely practice on a stud farm well known to the writer, was the giving of teaspoonful of unsalted fresh butter to the foal as soon after foaling as possible. Whether that
has a beneficial influence or not. we are not pre pared to say, onls const hot we are not pre-
foals were never troubles in needs to be roomy, and should be dry and well bedded. As a precautionary measure, it is wise
to be prepared with a disinfectont treat the navel string, for the prevention of navel or joint-ill and diarrhhea, causing the loss of hun-
dreds of foals every year. The act of parturition in a mare comes on very suddenly, and, arturition in a mare comes on very
may well, is soon over. One may leave a box for a quarter of an hour, the mare seeming as quiet as possible, and cour, the
to find her up and licking the foal. Usually
there to find her up and licking the foal. Usually
there is a little more sign, the mare often chew-
ing a fow mouthfur there is a little more sign, the mare often chew-
ing a few mouthfuls of hay, then dozing for a
few. minutes, and waking with a slight jerk.
Thesco little signs
able conditions, viz., air and moisture, and also ever, should be brought about as an incidental ef rimar cultivation. Seldom need it be the To provide air and moisture farm. soil the great essential is to preserve, under all possible actsions, a loose mulch of surface soil. This he a manket to protect moisture below from bove. Investigations by the wind and air Chysics of the Ontario Agricultural College show used two and growing season of 1905 grain crops fell on them during their pimes as much moistune as growth. In the wet season of germination and one and a half times as much os they required the rain that fell. This extra moisture must have come from the subsoil, where it has heen stave up chiefly in the dormant season. Wio con thus perceive the great importance of consorving mos ture carefully. Much can be done in this diret plow depth, thus increasing the of the soil to pacity of the lower soil ; but far more important $t$ is to have the surface layer of two or three the more effectually will it conserve looser it is below. Even a slight crust will impair its effisurface, where it is quickly evaporator to the rowed or scufled surface will preserve moisture over which a crust has formed. To save soil it can be avoided. If crust does form, break it delay means serious loss moment. Every day's the season should turn out to he dry, may be a case. $13 y$ keeping the surface soil loose, we pre range of root growth. Baking is caused by the starts at the surface as a crust, and thickens as

miliar with the work. It is a great relief to se
the fore feet and the no straight. If there is any doubt. one should
ferel at once. and if there in and
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$\qquad$ and drying out, hence keeps the lower soil moist arouth, this under soil will remain friable, and the lower soil actually did dry out, it would still out hy theckening of a crust alove If the value
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mare is quiet, let the foal find the teat for him-
self, even if he is some hours over it generally blunder to it at last. over To push a foal if not well done, usually make him stupid, and put him quite off it. If after some hours he has
not succeeded in finding the teat, a little may be milked into the hollow of the hand to give him a taste, when he will probably follow the finger-
ends with his lips to the teat. It is of little use

```
With regard to constipation in foals, do not physic them. Give mare laxative diet, let the
coal have the first milk, and, if necessary, intro-
duce a cone of sol
``` loes not pass any matter in the first twenty-four ome away and the manure is of a lighter color one can rest assured that the first milk, containng a laxative principle, has done its work.
Watch the fotal, and see that the natural passages

CLYDESDALE REGISTRATION.
\(\qquad\) dale Horse Association of Canada, the importance of suitable character is urged. Many stallions, standin for service in Canada, as well as breeding mares. have
not yet been recorded, and the registration of their progeny, sometimes only attended to when necessary
for sale purposes, is then attended with unnecoscary en pense, trouble and delay. In the case of a four-cross filly, it is sometimes
difficult to obtain the required information and pevidifficult to obtain the required information and evi-
dence, and this becomes greater as time passes. Owndence, and this becomes greater as time passes. Own-
ers of fillies eligible for registration are urged to attend to the matter early, as it gives enhanced value to the animal, and in the case of change of ownership,
no delay occurs. Every breeder is recommended to keep in a safe place, not only a record of all colts, but
\(\qquad\)
\(\qquad\) and one dollar to members of the association. In the

Scotland, but not recorded in Canada, the sire must should be taken. In filling out application forms, care sires, and, if the dam is registered, her name and number also. All Clydesdale breeders are invited to join the association, sending the membership fee to "the Acure, Ottawa The isee is paid annually are, Ottawa. The fee is paid annually, and the ad-
vantages are reduced cost of registration, and a copy of the studbook fr
Application forms, transfer blanks, envelopes, etc., the Accountant as above, all letters to whom so addressed will pass free of postage, if the letters O . H. M. S. are placed in the upper right-hand corner of the "envelope. An advertisement appears in this issue of The also Advocate," calling attention to the umns, calling a general meeting of members of the association to consider a proposed amendment to the rules regarding the registration of imported stallions

\section*{Views of Western Horsemen Regarding Stallion Enrolment.}

\author{
Saskatchevan and Manitoba, have on their sta
ate tooks some form oo stall
}


 ng whether grade or caros.b-berroment and if pare



 pure-breds or grades of any description. All stallion advertising must contain a copy of the
certificate of enrolment, and every stallion must certificate of enrolment, and every stallion must
be advertised. In the Manitoba Act there is also be advertised. In the Manitoba Act there is also
provision for a lien on the foals got by pure-bred In our issue of January 31st, 1907, we pubished an article outlining the Western enrolment
law and reviewing its working out. Since then -. The Farmer's Advocate and Home Journal,",
of Winnipeg, Man., has invited the views of its subscribers on this subject, and some letters appeared in its issue of April 10th. In view of the
vital interest in this subject of stallion inspec-
tion and enrolment we pive tion and enrolment, we give space to these let-
ters, and may publish more as they appear in the BELIEVES IN ENROLMENT OF STALLIONS. I would say I have made a study of horse-breed-
ing for 25 years. We must post horse owners to ing for 25 years. We must post horse owners to
get good horses, and we must have breeding in get good horses, and we must have breeding in
the sires or we cannot improve our stock.
Unsound horses should not he used. I would lar horses with spavins, ringbones, or cribbers and any person travelling such for public service
should suffer a penalty Liens on Foals.-Service of horse should con stitute a lien for horse fees, without registration
if claimed within cighteen months after fees are We have had good results from enrolment here
hut there should be a man appointed in every

ENROLMENT SYSTEM PROTECTS OWNERS O MARES AS WELL AS STALLIONS





\(\qquad\)
\(\qquad\)
 NROLMENT ORDINANCE NEEDS ENFORCING

THINKS STALLION ENROLMENT O. K. put in force. We are blessed with pure-bred horses uround here. The farmers are all for pure-breds. As regards unsound stallions, the thing is where to draw the rine? I know a stalother ways. I would say that, he is a fine horse be allowed to get colts unless for the man that


Bramhope Cardinal 24058.

ENROLMENT SHOWS UP BOGUS PEDIGREES
brings out the bogus pedigrees enrolment, as it
a. license on grade horses, say ten or fifteen dol lars, and a veterinarian's certificate of soundness provement. My suggestion about unsound horses would be that all horses enrolled shall have a their soundness, or what they are entitled to and then the public would know what was wron 5 . There are so many people who do not know a STALLION ENROLMENT AND THE USE UNSOUND AND
\(\qquad\) ment and use of unsound stallions. Taking your I consider the system of stallion enrolment as one of the greatest benefits to horse-breeding it is
possible to have, and one that cannot be too rigHow is it atfecting the breeding of horses in
your district? As the system has only been in How is it affecting the breeding of horses in
your district? As the system has only been in
existence since. June 1903 it existence since June, 1903, it cannot be expected
that its effect is set very noticeable, only as a
means to prevent the scrub or mongrel stallion means to prevent the scrub or mongrel stallior
from standing or doing stud duty in the country
y exterminiating them, as far as public use goes good stallions as it greatly benefit to owners tion of service fees, thereby encouraging the out lay of greater sums in the purchase of good stalatronat will rely very greatly on outsid spect is already quite obvious, and, as a result the young stock of the West are beginning to how improvement, even if, it is but slight at present. But a few years, and the benefit of the enrolment system will be felt and seen all through
the West. As to suggestions
regarding the use of regarding the use of
unsound stallions, unsound stallions, I
emphatically suggest
they should be avoided, and given no consideration whatever
B y "unsound," By "unsound," it that heredi-
take
tary unsoundness is take it thatness is
meant. In think the meant. I think the breeders can make is
to use animals (male or female) which are
known to possess any known to possess any
unsoundness that circumstance would in-
dicate might be transdicate might be trans-
mitted to the oftmitted to the off-
spring. spring. Accidental unsoundness I see no
reason to object to,
other other than the unsightliness that may
accompany such unaccompany such unfat that the soexists, but I strongly
advise anyone con-
demplating the purchase of such an ansatisfy himself that such unsoundness is accidental or not this cannot be done, I suggest the animal under suspicion be left As you ask what I would suggest by way of suggrevement to present enrolment ordinance I suggest that the issuing of certificates to grade
stallions should be done away with, as these horses are very seldom good sires, and as long as they are allowed to stand for public service patronize them-a practics does much harm to honse-breeding. Another suggestion I would Por service" be extended from 12 months (as now) to 14 , from time such service is performed, as it gives owner of stallion a much-needed exten-
sion of time to enable him to Owners naturally do not care protect himself. patrons for fees (especially in the oase of a year like this, when the sale of wheat is almost at a standstill) or file a claim for service with the
local registration clerk; yet, the owner of horses ocal registration clerk; yet, the owner of horses
must have protection, and the extension of time should give him ample time to obtain it. \(\begin{gathered}\text { R. M. DALE. }\end{gathered}\) R. M. DALE.

At this season it is well to stand the horses dust in the stable, and be very much better for man and heast. Keep to the windward side of

ANOTHER VOTE FOR MR. McKNIGHT'S PLAN Editor " The Farmer's Advocate I have been reading with a great deal of interest
the different breeders' views re your valuable papers' views re licensing of stallions in
letter written my mind the views in the letter written by Mr. S. J. McKnight, Grey Co. (issue,
March 28th), fills the bill the March 28th), fills the bill the best I have seen yet-
for the Government to impose a fine of not less than one hundred dollars on the owner of any stallion
offered for service at a fee less than fifteen dollars. A oflered for service at a fee less than fifteen dollars. A man can afford to travel a good horse at that price,
but at no less. The owner of the scrub stallion, havbut at no less. The owner of the scrub stallion, hav-
ing to raise his fee to that price, would soon be out of business. as farmers and breeeders having to pay the same for both would certainly use the good stalton in preference to the bad one. Now, most farmers
to-day are good jurdges of horses, but the trouble is some of them think that five dollars saved is five dollars made, and do not stop to consider what difference would be in the value of the colt at four
five years old. I do not think it right to pass an five years old. I do not think it right to pass any
law that after a man goes to the trouble of getting good stallion, and paying a big sum of money for him, that he should have to pay a license before he can
offer the stallion for service. rivice.
I am glad you have given a page to this important
question, and I feel sure the Ontario Government will question, and I feel sure the Ontario Government will
do something to help the owners of good stallions, and encourage the others to get better ones.
Middlesex Co., Ont.
FARMER AND BREEDER

\section*{LIVE STOCK.}

CONTAGIOUS ABORTION IN DAIRY HERD My cows abort in from ten to eighteen weeks
after service. Some abort a small calf in a sac. in others it apparently rots a way, a thick weeks from a time about eight weeks or fou ice. I would like to hear through " The Farmer's Advocate " from parties who have had ex is not a particle of accumulated filth in pest. There I have cement floors, and lots of fresh air. How should I disinfect? Should I syringe out the interior of cows' hind parts: Please give directions. How is this disease communicated from
one cow to another? Will switching their tails carry it from cow, to cow? Could a man be prosecuted by law who would send his herd of over twenty cattle (diseased with contagious abor-
tion) to a point twenty miles away, and have them sold in another party's name by public auction, thereby scattering the disease into probably twenty herds? Where can I secure a first-class published work on this disease? Would the summer season be a better time to fight the disea
than the present? In answer to the legal question put, we would
say that the man has rendered himself liable to criminal prosecution, as suggested, and also civil
jured.
Contagious abortion is not one of the diseases
dealt with under the Animal Contagious Diseases dealt with under the Animal Contagious Diseases
Act. The nature of this disease is not thoroughly understood, nor have scientists in any oountry reached an agreement as to the prophy-
lactic measures most likely to secure its eradication.

The following measures have previously been recommended by Dr. Rutherford, Veterinary Dire
tor-General, as being advisable: 1. Strict isolation of all reacting animals.
2. Destruction by fire of the fuetus and it envelopes.
3. Thorough cleansing and disinfection of the stables occupied by pregnant cows. This is most effectively performed by thoroughly scrubbing al
woodwork with hot water and crude carbolic acid woodwork with hot water and crude carbolic acid
the latter in the proportion of 4 to 5 ounces each bucket of water, to be followed by the appli cation of a lime wash, to which one pound crude
carbolic acid to each five gallons has been added If the floors are of earth, it is well to added four or five inches of the soil and substitute fresh
therefor. Admit fresh air and light into the therefor. Admit fresh air and light into the
stable, especially when empty. 4. Sponge at least once a day the valva
thighs and tail of each pregnant cow with an anti septic solution, such as creolin, \(1-30\) in soit
water, or a \(1-1000\) solution of corrosive sullimate (perchloride of mercury) in solt watur. freely. Be careful in the use of bulls. Any hull
6 . which has served an alhorting cow is a source of danger to the rest on through the st nck hull having served some infected cow, and thus conntan
disease. The disease is most insidious
nature, frequently getting into a herd from thin purchase of a cow show no external sign of dismen,
year.
Affected cows show the first evidence being, generally, the ahortion
off all breeding stock, especially if not pure-bre and restock after careful and thorough disiniec-
tion of the affected premises. Internal adminis tration of various remedies, notably pure carbolic acid, well diluted, in doses of from one to fou drachms every two or three days, has many adv

\section*{NATIONAL RECORDS CORRESPONDENCE} Reference having been made in these columns
recently to inconvenience and misunderstanding regarding the person to whom correspondence in connection with the National Live-stock Records Board be addressed, the Secretary of the Record explanation, the substance of which is as fol clear the which will, it is hoped, make more "Ever since the Reand the reasons thereof appears since the Records have been in Ottawa it through correspondence in mish of confusion addressed to Mr. Henry Wade, sometimes sent to Toronto and forwarded by him to Ottawa, and sometimes addressed to him at Ottawa. The reason for this was that for a long term of
years, people have been accustomed to forwarding matter of this sort to Mr. Wade and all th forms which were sent out and which were in the
hands of hreeders, hands of breeders, had Mr. Wade's name and address on them, and even at the present time
there are a large number of these old forms conthere are a large number of these old forms con-
tinuing to come in. After the Records were removed to Ottawa new application forms, giving information as to the addressing of correspond-
ence, were sent out to all persons whose names ence, were sent out to all persons whose names
could be procured as likely to record stock. As

\section*{LIVE-STOCK RESEARCH}

EXPERIMENTS ON COST OF PROThe annual report of the Agricultural College, uary of the recty issued, contains Prof. Day's sumducted at the College during 1906 . We shall coning the experimente the part of the repor The work was an essentially practical unde Caking, being of the nature of an attempt to de marketing, or, in of raising pigs from birth to it words, to find out what
it was likely to cost, under average conditions, to produce a pound of pork. To controversy, the question was first considered. foods foods presented, of course no difficulty, but in the case of home-grown foods
the question was necessarily more complicated. Hav ing regard to the fact of cleaning and marketing
is avoided, and that foods contain that these great deal of smuall, a a
marketable seeds remembering a n d that it is possible, by
judicious seme lower-priced feeds of the
market to the market to materially re thought that a it was
of \(\$ 26.00\) should be considered well
 at 1.5 cents \(\begin{aligned} & \text { per cwt., } \\ & \text { and roots at } \\ & \text { a } \\ & \text { ton. }\end{aligned}\) roo per
The cost of the mainsow was not definitely determined, but an approxi-
mation was arrived well as giving information on these forms as to doubted to be other which wall sarrived a that fair and satisfactory
how the correspondence dressed envelopes were sent out with these forms. The difficulty was found in the fact that pasture
Notwithstanding this, the old forms still con- serve largely of practically no market velue tinue to oome in, and correspondence is still ad- serve largely to maintain the sow while she is not
dressed to Mr. Wade and a sent This being the case, as there are bound to be an estimate of 75 cents per month wower, that changes in the ordinary course of events as time two litters aver year, and suckles each litter sis have some permanent method of addressing cor- ter months of maintenance nine and one-quarchanged. It is not a matter only of the corre amounting practically to tomout, therefore, of \(\$ 3.50\) to he charged against
spondence being addressed in this way, but it each litter makes considerable difficulty sometimes in the drafts, etc., heing made out in favor of orders, while suckling a a inter, proveciates little in valud
dive and and no allowance well cared A number of applications for registration of ciation. Nor was any allowanoe marde for inter
Shorthorns up to the present time have been and- feeding. nor of very small proportions in pig

 In an average of twelve litters, the average
number of pigs to a litter proved to he fit and the average cost of feeding sow and litter during
the six weeks nursing period was \(\$ 3.74\). These litters were hred ing various ways, and included
pure-hred Yorkshires and Tamworths. and crosses purehred Yorkshires and Tamworths. and closses
how twen Yorkshires. Tamworths and Berkshires.
Thw ration

Wade, Registrar Canadian Live-stock Record Wade, Registrar Canadian Live-stock Records,
could not be delivered to the office, and was in. formed that, according to the postal law in inhad to follow the written instructions. If correspondence were addressed to Mr. Brant, and his
name were printed name were printed on all the forms, if at any
time there should be a change, the same culty would be encountered, only in a much diffiserious, form than in the case of H. G. Wade, as Mr. Wade would have only a certain amount of
the correspondence addressed to him at the Rec the correspondence addressed to him at the Rec-
ord Office. There is no inclination to prevent tho general public from knowing the name of the accountant. All letters sent out from the Record Office are signed by that official. It was thought correspondence with the Record Office, ho have thought that a permanent address will be found more convenient than addressing an individual who might at any time decide to withdraw from ,

\section*{.}

and hran, in the promertion of 2 thy 1 hy weight.
added
it was available. Adding now \(\$ 1.00\) for service feed available will be red clover, followed by
fee, and \(\$ 3.50\) for maintenance of the dry sow the total amounts to \(\$ 8.24\), to be charged against of latter. Then sow cabbage seed former to one the average litter of \(6 \frac{1}{2}\) pigs. The total cost, possible, same as turnips-one poend seed to acre;
an thin out to two feet in row ; no transplanting ; an
therefore, of a single pig up to weaning time cording to this experiment, and at the valuation of the foods given, would be \(\$ 1.2\)
At the time that the report was written
 average cost of food per pound of live weight
from birth to marketing, from birth to marketing, was 4.20 cents. To in
dicate how cheaply pigs may occasionally be raised, it may be stated that one lot wasion fed at a cost of 3.55 cents per pound, and another at a
cost of 4.00 cents per pound fixed charge of \(\$ 4.50\) per litter, the total cost of dry sow, averages 4.61 cents. It should be explained that these were winter litters, and it is
no doubt probable that summer litters can be fed no doubt probable that summer litters can be fed
more cheaply. It is stated that until further work has been performed these results must be
The results of the " Co-operative Experiments with Swine," which are also included in this report, cate "c columns in a summary of Prof. Day's ad dress at the recent Winter Fair. It may be in-
teresting to note, however, that teresting to note, however, that although the such as to make comparison a little difficult, the results of the co-operative experiments are in the stantial agreement with those obtained at the
College. At the himhest \(\$ 23\) a ton, and of weaned pigs at \(\$ 250\) meal, at average cost of production in an experiment ine cluding 95 pigs was 4.99 cents per pound. At the lowest valuation of meal, at \(\$ 20.00 \mathrm{a}\) ton, and cents per pound. At the average and perhaps
fairest valuation of fairest valuation of meal, at \(\$ 20.00\) per ton, and
of weaned pigs at \(\$ 2.50\) each, the cost was 4.57 cents per pound
The author comments that in these figures and feeders. We believe that they should give more substantial status to the bacon industry in
Ontario. There is a growing dive Ontario. There is a growing demand and a grow-
ing market for bacon products, not only in Great ing market for bacon products, not only in Great
Britain, but on this continent as well.' The Cana dian farmer is in a better position, through the class of grain that he grows, to produce a more
desirable grade of bacon than his American desirable grade of bacon than his American neigh-
bor. That he can do it as cheaply as is here evidenced, is highly gratifying. We commend a consideration of these figures to every reader, and suggest that they prove a stimulus, not perhaps
so much to an increase in the number so much to an increase in the number of the
hogs raised, but rather to an improvement in the hogs raised, but rather to an improvement in the
quality and uniformity of the product.
BRUCE.

\section*{FITTING SHOW SHEEP}

I have a large flock of pure-bred Long-wool shape for the desire to put in show and sale views as to the best methods of fitting, and par these sheep. Rape throughe crops for feeding Kent has of ripe throughout the County o Kent has of late years been affected by aphis (small
green lice). Can you recommend any substitute tor rape that would not be affected by this pest ,
I thought of trying thousand-headed kale. Can anything be done to prevent the destruction of
rape by the aphis?
SUBSCCRIBER I cannot, perhaps, give your subscriber all the
information he requires, but what I write may be of use to him later. In the fritt place, I assume
that he had made. that he had made up his mind last fall that he
intended showing, that he has had his flock in intended showing, that he has had his flock in
proper shape for the show-ring up to this date. He knows what competition he has to meet. He
has done all he thinks necessary to win prizes, except making provision for the summer feeding of I cannot advise, knowing nothing of the condi-
tion of the flock at this time or the feed available





\[
\begin{aligned}
& \text { vewerythine upp-to-date, to his sai saisfaction }
\end{aligned}
\]
early sort, and World Beater or Autumn King for late; they are the same. Sow kale same time,
thin to 15 inches; then rape, then Yell thin to 15 inches; then rape, then Yellow Aberto have mentioned mangels, but these are not fit spring. feed, or rather not at their best until spring.
This
like pisttering, as the Yankees say. Crops may look one may, it is the secret of success in fitting sheep for show. The greater the variety of green crops, the better the chance to win, providing the
stuff fitting for show are worthy of cuch One time, years ago, while on acherts. father, who then had a flock of a 500 Hisit to my ewes, on the chalk foundation in Hampshire, he had his lambs on two or three different varieties
of green crops daily. We visited most of the noted
breeders breeders of pure flocks. Me Mr. Budd said :"All my show and sale rams never, pass a day without sanI would suggest to your correspondent, let your show sheep have lucerne offered to them
daily. We can grow that when sanfoin is not daily. We can grow that when sanfoin is not a
success, as far as my experience goes. One will beccess, as far as my experience goes. One will
be surprised how a bit of well-cured lucerne hay luscious rape or cabbage. after a hearty meal of It may seem strange to most feeders that I grain, without these various is for the reason that as dangerous as handling dynamite. The sheep do well in the spring while green feed is available, but when the dry July and August comes, and fying green food, the grain only adds fire to the craving for what is not, and the sheep go back and never come again-as the shepherds explained
the matter, "Oh, burned up," To wind up this altogether too long letter written for your correspondent alone, but to those of your readers who are interested in showing
sheep: 1. Grow lots of green feed of various kinds f success . 2. Do not forget to try lucerne; it will remain with you three, four, five or six years, and
can be cut three times a year after first year. 3. Feeding this luscious, cooling food enables you to feed grain in the hot summer months \({ }_{1}\)
4. Don't sow rape seed too experience, it it the early-sown that suffers in my the aphis. I am not an entomologist, but imagine, if at the first of the season the aphis did not find a suitable resting-place for the sole advise later sowing. Spraying, while useful in the garden, cannot be successfully while useful in
the field, out in the field, and as the aphis works on the under side of t t
spraying.
5 . No
5. No crop can equal cabbage, if properly cul-
tivated-none so safe, no bloat, or loss of ears, and, for autumn feed, worth more than any wist
which I am conversant. Middlesex Co., Ont. RICHARD GIBSON.

\section*{SHEEP NOTES}

Lambs should be docked and castrated at two lecting weeks old. Much loss results from neg pure-breds intended for breeding purposes, are a value is on the farm in the fall, and their selling lambed, and are in good condition, all may be saiely sho Yearling sheep in good condition should be shorn, unwashed, before going to grass. They
thrive better in the warm spring days, and there is less loss from "tags" on the fleece Trim the hoofs of the flock before This may save trouble from an outbreak of foo rot. It is well to keep on hand a small phrial ill or foul in the feet. When sheep go to grass, they should be taken ing and evening for a while bran and oats mornProvision should be made for sowing a patch of vetches, and another of rape, to supply succulent food for the lambs , when pastures get dry.
Lambs will be "trumps " this year, and will pay Lambs will be "trumps" this year, and will pay

\section*{THE FARM.}

\section*{SOUND SILO SENSE}

Editor "The Farmer's Advocate
questions asked rear valuable paper from time to time long since one man asked if a silo 15 feet in and not and 30 feet high would feed 30 cows six months. I have a silo 12 feet in diameter and 24 feet high, and cessful tharming to-day. But while many tortial to sucsome are tearing them down. Now, sir, I think it is a great mistake to make a silo 15 feet in diameter.
Men who have had no imagine what an amount of feed these great cannot Ten, eleven or twelve feet at the outside is thens enough, and make it as high as you like. With leess
diameter and mere diameter and more height your silage will both leep
and come out better. If I wanted more room I rather build two small ones than one large one would the results would be much more satisfactory in in and a truism when I say that many have thecome tired of
the silo simply the silo simply because they built cheap. poorly-con kept, and therefore had great a capacity for the stock throw out every year. My advice to those who con template building silos is: first know that you con grow corn successfully, then build well regardlees of
first cost; not too large in you like. Build them round, either, and as high a ment, and the only regret you will have is that you
did not have one sooner. Waterloo have one sooner. GAVIN BARBOUR.


King Thomas (imp.) (12625)

\section*{ROTATION FOR CORN SMUT} Regarding increase of smut in corn during recent sea sons, I beg to say that while we have observed a little sidered that it has been on the increase. Neither in the experimental department, where corn has been grown grown tra measures in the way of prevention. Information from the States is to the effect that rotation of crops is one of the best factors in the way of prevention known. Perhaps where rotation of crops has not been noticeable than it has peen here of smut may be more The reasor why rotatiun is
in the fact that the corn smut spores remedy is found the ground, and only to a very slight extent on the grains of coru. The spores do not spread widely, and if the corn does not appear on the same ground for a
period of three or four vears, the probatility period of three or four vears, the probability is that
the evil will be much lessened. This same fact will indicate that a treatment of the This same fact will of oats or wheat, viz., hot-water treatment or the
formalin treatment, will not he effectiver fornalin treatment, will not be effective for corn smu
These remedies are not advised by our College here, nor by stations in the States. The only remedies effective so far as I know are : first, the one mentioned, namely, rotation of crops; and, second, gathering the
corn smut ears two or three times during the season and destroying them. This latter might be practicable in the case of small growers, but. would hardly be pos-
sible on large farms. We think that the former remed sible on large farms. We think that the former remed
will be sufficient to will be sufficient to prevent an increase of the smut.
Ontario Agricultural College.
H. S. ARKELL

\section*{CORNER POSTS}

Editor "The Farmer's Advocate
I notice in "The Farmer's Advocate " of April 11th a. M. was wanting to know how to set corner posts scription, but I would have objections to that method, especially when I think we have a far letter plan. My structs the highway, and someone may aet hurt, obdark night, and the trouble may lead to a lawait also those end posts generally serve as gate posts, so that that brace rod would take up gateway. I will describe how we have set our end plosts for three
years, and have never had one to lift yet Some years, and have never had one to lift yet. Some
stretches of fence are 80 rods long, 7 and 8 strands of No. 9 coiled wire, and stretched with horses and large enough for a man to get down in and throw out end, on opposite sides of post: cut across post with saw 2 inches deep and 4 inches apart, and chisel ou
now put a piece of \(2 \times 4\) scantling in grooves an spike. Put post in hole. and after filling to top of
scantlings. lay some boards on top and crosswise scantlings. lay some boards on top and crosswise, mak
ing a platform, then fill in rest of earth, and you will
have a post then ng a platiorm. then fill in rest of earth, and you wil
have a post that will not lift, because it cannot lift
all that dirt have a post that will not lift, because it cannot lift
all that dirt out. Caution: 1) not rely on just
spiking scantlings spiking scantlings on post, for they will draw off
whereas by setting them in posts the end would have whereas by setting them in posts the end would have to
raw off end post, which it will never do \(\begin{array}{ll}\text { Welland Co... Ont. } & \text { W. W. Marshali. }\end{array}\) INote -A plan similar to the above was illustrated in "The Farmer's Advocate "about a year ago, but Condemned afterwards by a correspondent, who argued,
with some reason, we believe, that a mortise in the
ower end of the post aflorids a place for rot


\section*{TO GUARD AGAIMST FODDER SHORTAGE} Fditor "The Farmer's Advocate":
I trust your readers will pardon me for offer ing advice which may or may not be needed that is, to preserve all coarse fodder that may not be needed this spring until we can better the American and Canadian ineteorological officers iorecast a dry, or much drier year than the pre ceding one. Our own opinion is that we shall it will mean short straw Should this prove so, rt will mean short straw and a light hay, crop
Taking into consideration the very great increase in. the number of live stock, and the small amount of hay in stock, a shortage of fodde would be almost a calamity. We have already
passed through two fodder famines in our farming experience, ayd we have learned since ther never to waste fedstufis until we see what the harvest prospects are likely to be. Our usual practice is to clean out all our manure yards in straw or chaff we may have left with any spare soon trample it down, and the yards are kept clean through the summer. This leads us to in all seasons. In dry seasons, root crops ary more or less of a failure, while corn, when once started, can laugh at dry weather and rejoice in
the heat that shrivels other crops. To farmers on all kinds of soils, we repeat your sound advice, ""Grow Corn.", We We have been growing it for upwards of thirty years, and never have had failure. Some years it does better than others, but is always a paying crop. We hope to live
to see the time when (to slightly alter Longfel-
low's lines) :

> All around the happy homesteads

Wavd the cornfields, green and shining,
Wave their green plumes in the sunfshine Wave their soft and silken tresses,
\[
\begin{aligned}
& \text { Filling thell soft and the land with plentyses } \\
& \text { Fill }
\end{aligned}
\]

If you do not like the corn crop, grow it and o properly cultivate it, When once you learn trouble than any other cou will find it no more mostly done between spring seeding and hayin the harvesting after your fall-wheat seeding and before root harvest and fall plowing. It can lid grown in hills or drills, can be harvested by maand stored in barn green or dried or made in shock silage, it is good, wholesome stock food, and the
cheno cheapest that can be raised. Grown for the grain alone, it is a very valuable crop. By grow-
ing the flint varieties, an average of 50 bushels may be olitatined, which average of 50 reed for any kind of stock. FRED FOYSTON
Simeoe Co., Ont.

\section*{PRACTICAL HELP}
reference you sent out. The discussions artas fit ent topics have been very interesting and valuable to me, especially the cultivating of corn and sowCorn and Queen Alfalfa. What Prof. Dean had say about milking machines was very inmight say, agricultural papers) men (and ean and ". The Farmer's Advocate. II am have thankful to you for the
Missisquo

\section*{DO SUGAR BEETS PAY} 1 will give you my experience beets. I had two acres last year. I I manured
ground, plowed and harrowed twice the previd plowed and worked again in the spring: sovious early, had a good stand; plowed them four times, scuflled every week in the hoeing season. Was to luad
the beets whenever we were early, but could not get shipping instructions. Fin up I had to pit them, and never got shipping instruction until about Christmas. We loaded with four teams and weighed every load (on scales which are inspecte every time, and there was in the neighborhood oleighs lbs. difference in our weight and the weight at the tory. Mine tested 13.2 , while one of my neighbor got them a crop apparentyy no bet than mine. in off for dirt was about \(7 \frac{1}{2}\) tons. If you had take covered with dirt you could not possibly get that much on them. I got \(\$ 49.00\) for the two acres; charged
for seed, \(\$ 5.40\) We were February 1st, but have not heard from the fact yet. If there is money in that, I think I will try some other way of making money
Regarding the experience of others in the neighbo their beets away in the case of those who go cars was something similar to mine. H. C. BLACK
Simcoe Co., Ont.

MORE USES FOR THE WEEDER
FOR
In a recent number of your valuable paper I read . E. M.'s article on the uses he makes of a weeder I think were the uses to which it may be put a
little more generally known, few farmers would be The weeder along winour find use in the spring. A Farmers' Institute lecturer.
speaking of clover, remarked that fariners were more careless reganding the covering of clover seed than with grain. Does it not seem strange that a man
should go to so much trouble to pre iare seed-bed form wheat, barley or oats, the seed of which coste little ver a cent a pound, and then throw away good cloer seed, at eleven dollars per bushel, on a field, and et it take its chancr, as so many do, when so little
rouble almost cnsures a catch. Some furmers it is rue, put harrows over the fall wheat aiter seeding with clover, but I think it the proper method to have fifteen acres in one dan whakin; he can cover ten slightly, and not covering tha wheat seed down sut working the ground finer. The cultivation is a rule to sow the clover seed iust so soon make it ground gets dry enough that the weeder will the froperly. One of my neichbors sceefled down his wheat hast spring, put the weeder iver half, then got too busy, letting the other half wi. He has a nice catch of clover where the weeder covered the ground, while
the other half is a total failure. Then again, we find the weeder a great help on our
Although break potatoes while the plants are small. Although break-
ing a few of the plants, it lessems the after labor so Although raising twenty to forty acres of cors annually, we are not fortunate enough to own a horse planter, and. consequently, "ither drill our corn or the weeder to old-fashoned hand planter, and we find the weeder to be a much nicer implement to level the
field, after planting, than are the harrows. Anyone
who hat who has used a weeder on corn land knows its advantnges: how it kills all small weeds and stirs and

could do it with a hoe.
Then when we are ex Then when we are ex-
pecting haying to start
shortly, when we think shortly, when we think
we cannot go through we cannot go through
the corn with the cultiVator again, we sow
rapee turnips, or the
mixture so tall that corn be not
the weeder will top of the seeder will breal
through again to put it
the sreve the corn, and cultivate
the hillst, for form the last
time. By thig time. By this met
we never need use a
at all ?
\(\qquad\) deepl-roteded weed
as Canadian thow, anadian thistle,
etc, and have or
fields not only free from
weods. after, the corn is
vestect, a green mat vested, a green mat
the most succulent
ther


MAY 2, 1907
THE FARMER'S ADVOCATE
has pretty nearly given out find greatly to their own advantage the weeder almost indispensable. Kent Co., Ont

FORESTRY AND CITIZENSHIP

\section*{\(C\)} A people without children would face a hopeless
uture; a country without treas is a hopeless. A true forest is not merely a storn house
wood, and at the same time a reservoir of water
When you help to preserve our forests or When you help to preserve our forests or plant zens. The value of forestry deserves, therefore,
to be taught in the schools. If Arbor-day exerece from the forests and how each on sistance, these benefits may continue, they may
serve a good end -Theodore Roosevelt.

CULTIVATION OF CORN
A study of the best methods of cultivation for tation throughout the corn belt, but the soils of he different so different in type and charastor the re so influenced by climatic conditions. that no definite rules can be made that cover all cases. However, a few general principles have been
worked out, and have been found to be of value, Recent experiments in this state (Indiana) have proven that cultivation means bushels of
corn, and that the corngrower can do much to Control the yield in the preparation of the seedconservation of soil moisture One of the secrets of successfui corn-growing is
he early cultivation of land for the purpose of conserving the soil moisture. Careful experiments made by King, at the Wisconsin Experiment Sta-
tion, and German investigators, show that to roduce one ton of dry matter in the corn crop about 400 tons of water are required This
neans that, for a good average crop of corn, an normous amount of water is necessary, A study shows that the amount of rainfall during the growing season-May 10 to September 15-does not begin to supply the needs of the crop. in
this be true, steps should lye taken to hold in the soil as large an amount as possible of the fall, Winter and spring rains. This can be done, in s a team can go on the soil and the danger of ruddling is past. On land which has been falland form a mulch, which will conserve the mois ure and prevent the soil haking, in this way mabed. Fall plowing cannot be recommended for all
sils or all localities. but should be practiced more generally than at present. Fall plowing i preferable to spring plowing l,ecause it can
dlone at a time when the rush of work is not great as in the spring. Fall plowing enables one worms, corn-root lice, and other insects injurious allows the moisture to enter more readily. It
also allows carlier cultivation and insures earlier Manting than spring plowing, Experiments have
also shown that for, a periot of years fall-plowed land has yielded more corn than similar land DISkING Before plowing Solne work done in the way of disking land to Warked results in favor of this operation. Th hisking of the ground breaks the crust that may corporates with the soil any stubble or other Way aidling the capillary movement of the water
Whire grass, straw. weeds or cornstalks are Thowed under in the spring., we often find this inCor the failure of corn plants to secure sufficien
\(C\)
My disking the surface soil before and after
Howing, it is found that the soil is pulverized the intire depth of the furrow slice, which furnishes Fotion The plow With The harrow II many soils, spring-plowed, lumps of greate dry and bake in the wind and sun, a very un
isfactory seed-hed is oftentimes obtained a . Mul can be done to break thes Is or clods and form a mulch which will aid
onserving the moisture, if the plow is fol
(d) with the harrow.
o harrow thoroughly each evening the land land may be cultivated both ways during the CARLy PREPARATION The seed-bet. In deep soils, such as are found in the MissisThe early preparation and frequent stirring of sists in throwing out a deep furrow and planting the soil before planting time is recommended. In the corn in the bottom of the furrow. This practhis way a loose mulch is maintained, the ground tice is not to be recommended for shallow or stiff the corn-root louse, are largely controlled. Ground that is plowed early in the season, and allowed
to stand untouched until to stand untouched until a few days before . It has been found advisable to stir the ground ditions, the best results. has been planted and the time it comes up. For TIME OF PLANTING CORN. this work, the spike-tooth harrow is generally Since the date of planting varies with the and easily worked the weeder may be used. The season, the soil and the location, no definite time practice of harrowing corn after it is up, followed


Usual Method of Breaking Corn Ground
ring plowing this is objectionable, because of the heavy growth of organic matter which will ment of water. Disking before plowing will improve \(t\) his condition. The following of day with the harrow will assist in breaking down the lumps and clods,
on at this Station (Purdue) lead us to believe for the reason that some of the corn is destroyed.
that, one year with another, the early-planted It is true that a few plants will be pullo corn qives the largest yield. Early parlynting for out or broken, but the plants will be pulled this district is from May 1 st to May 10th. Corn under average conditions, are such that the pracshould, of course, not be planted in cold or wet tice is to be recommended
ground simply because the calendar shows the
usual time for planting has arrived, but, by good When the corn is high enough to row nicely, drainage, fall plowing, early cultivation, etc., with cultivator should be started, and cultivators every farmer should strive to have his land in with narrow shovels that throw the soil but very
shape at the prould be used. Fenders are usually found
little shor shape at the proper time for planting. desirable to prevent the covering of the small
Planting.

The method of planting corn will depend upon the seed-bed the seed-behat is rough or very rolling; land that is well prepared previous to planting, free of
weeds, and easily tilled, can be drilled to good advantage. Soils that bake easily, and require much cultidance of weeds planting; soils that have an abun-

In this connection comes up the question of deep versus shallow cultivation. In recent experiments it has been found advisable to cultivate
to a good depth (2늘 to \(3 \frac{1}{2}\) inches) the first and second cultivation, shallower cultivation being second cultivation, shallower cultivation being
given in the later cultivations. This practice is
followed followed for the reason that in the early season the root system of the corn plant is not very ex-
tensive, and will not be injured to any extent by tensive, and will not be injured to any extent by deep cultivation; while later in the summer, when
the roots begin to occupy the langer share of the


Result of Disking Corn Ground Before Plowing.
small and weak
d was given -imilar cultivatio The stalks where large and at ong, and the yield of corn was much

THE FARMER'S ADVOCATE
ground, shallow cultivation is given,
prevent, as far
One fault of the possible, injury to the roots. he ceases cultiv average season. If the season is dry and the torion should be continued, even though the cultivatasseling. This later cultivation is best done with a one-horse, A-shaped cultivator, with teeth similar to that of a spike-tooth harrow, or the much to preserve the mulch. Late cultivation, where practiced, during the last two or the the years, has made many bushels of corn. or three Purdue University Experiment I. I. CHRISTIE, Ind.


Effect of Cultivation of Corn Cro
yo cult cultivation, and yielded 64 bushels of

\section*{THE DAIKY.}

\section*{IMPORTANCE OF SHAPE in UdDERS}

We have frequently had occasion to lay ems.
upon 'the importance of paying attention to to the shapepe
of the udder \(i n\) are aware, there are are udders and buredeters of experience being the deep, square vessel, whose tore part well up under the abdomen, and whose point of attach.
ment pentiod ment behind is also very high up between the quarters.

 pointed the Iower aspecect of the udder is ine and more




 much smaller than the hinder or the rear part, over
one-half as much more milk was obtained frer latter portion of the udder than from the former. The
better developed the udder is--in better developed the udder is-in other words, the bet-
ter balanced its fore and hind ter balanced its fore and hind quarters-the better the
milker the cow possessing it will prove.

COW-TESTING ASSOCIATIONS
\(\qquad\) Sheaner Ont for mormed 1907: Herd average-Daily vield ending 30th January
 Herd average-Milk, 816 lbs.; test, 3.3; fat, 27.4 lb
For 30 days ending 28 th March. For 30 days ending 28 th March: Herd average Koene, Ont., for 30 days ending 28sth March, 1907
average test, 3.2 ; average yield of fat, milk, 26.5 lbs. lbs ary, 1907 : No. of cows tested. 71 , ending average 25 th Janu
milk; 365 lbs .; average test, 4.8 ; average yield milk, \(365 \mathrm{lbs.;}\) average test, 4.8; average yield of fat,
\(\mathbf{1 7 . 6} \mathrm{lbs}\) Highest herd average-Milk, 526 lbs., test, 5.3; fat, 28.2. Highest individual yield-Milk, 1 , 11 , 13s. Highest individual test, 5.3; lowest milk yield
40 ibs.; lowest test, 4.8. For 30 days ending 281
Febre February: No. of cows tested, 53; average yield milk, 481 lbs.; average test, 4.6 ; average yield of fat
22.3 lbs. For 30 days ending 27 .



Was not described or illustrated in our paper, becau
we confess a degree of dubiousness concerning the pra
tical utility of these ingenious cow-stall improvenent tical utility of these ingenious cow-stall improvements.
A great many have been introduced only to be dis.
carded eventually. However, we were assured that Mr A. C. Wells, one However, we pere assured that Mr better in a hut is too narrow for large ones. It looks for Columbia, and an of the leading dairymen of 1ritish to size rather than to have them farded according terprising farmer, has a stall after which well as en- mixed If this were done. the width of the staly was modelled, and which it weeks ago we were favored with a contribution Some should find that \(n\) cow is nhter to turn around in her
Mr. Wells his Wells, in which he described briefly and favoratily. prevent her doing so hy making a sort of rack easily sketch to illustrate it once wrote himill asking for a an the side of the gonto. This can be done by using which appears in this issue tocentime held his article, pates and then nailint so put on cance. up and down the On account of the similarity, between his stall and Mr. which will an 4 inches narrower than it was before
 here given, alongy with of he subjoined description, quoted
from the albove bulletin :
usually done. Before the cows are let into the sta
again the gates are closed again the gates are closed and fastened, and the chains
are unfastened and hooked each cow to go into hered own at one stall, after which allows
is necessary to is necessary to make them secure is to walk all that hind them and again snap youre chains wr ork rolong be-
tied in this way can be fastened and quarter of the time required to do unis if tied by one- the
neck. purpose of mou desire to go in beside a cow for the furpose of miking her, you simple a cow for the
against the cow in the next stall, and the chain being
fastened to the pate of her stall. the gate prevents this cow from lhacking out
By being able to swing this over against the next cow you have a good partition
space than you would have if the divisis more space than you would have if the division between each
stall were stationary. As a cow is always milked
from the right side, this gate must swing Which would have designed a fastening for this gate shown, but it is difficult to have an arrangement which
would be automatic and at the same time absolutely
secure. This fastening whit secure. This fastening, while not automatic, is not unhandy, and it would be about impossible for an ani-
mal to get a gate open if fastened in this way. They
are certainly anot make them by simply cutting up a bar ofsmith can
iron. and bending one end in the half-inch .rves as a handle, prevents the rod from dropping through the staples, and makes a place to which a
tring or small chain may be attached for hancing it
ip. This string Should he driven in the be fastened to a staple, which
the gutter. so the upright stud, over not interfere with closing the gate, and at the same
nime be in a largerse in a convenient place when wanted. wire staples with this iolt makes the
dirty the platform
time, tiine, this arrangement whives she stands; at the same
would be more would be possible for her to have if sheedom were thian it
the neck or head. A further this method is that it prevents a cow in favor of into the gutter when reaching for feed, or when turng
out of the stable abortion has stable, which often proves serious turned way. has doubtless been quito often caused in this When you wish to let a cow out of her stall, you open the gate at the side. which, by the way, starves as
a division, giving each cow a separate turns and comes out through the stall next to cow into it, as she would do if she were backer instead of
A COW STALL WITHOUT STANCHIONS OR CHAINS.
up all these boards, then take a broom and sweep the
dirt from one manger to another till you come to the
end. As there would be no corners
would require but a few minutes, and you would the
have no diffculty in keeping the mangers thoroughly
clean. The hay would be fed from the
 apart to allow the cow to draw the hay yhrowno but
at the same time prevent her from throwin
 ensilages grain, etco, would, ot course, be put in tron
 the partutions in them of thin steel or wod. Which
would make them stull more sanitary and cosier to wise To the queen the milisht arise that it would not br

 coming rry and footings ine the it ir, rather the then by the the animals coming in contact with each other, so It thinh
there woult bo
vitile or no dancer manger were adopted.




 an enstorn frm in regard to having these specially
made. so anyone requiriny them will be able to procure
man

A BRITISH COLUMBIA DAIRY FARM Bditor "The Farmer's Advocate
 tines concerning our dairy farm of 300 acres, in the Chill wadk Valley ve milk between 50 and
co cows the whole vents and



Fig. 1-Side view of Mr. Wells' cow stall.
number and secure good cows, we raise all the
heifer calves. The Babcock test has been a great help in weeding out the poor cows, which we send
o) the butcher. In the spring cows are the rass by first of May, and are fed a little clover
hay and ground oats until the grass becomes firm The pastures are usually green until November owever get nothing but grass. Sometimes

res become short, then the cows get newly-cut e being milked. Our winter feed is: Ensilage 0 pounds: cut straw or clover, 100 pounds
ats, ground, 75 pounds-the
are fed from 5 to 10 pounds 'The heavy milkers and bran per day, according to the guantity age, so that This grain is fed with the roughhave been trying for 15 years to arrange the cow talls so that we could keep the cows clean and
ree from manure, which so much disfigures the

ow, and makes it so hard to get clean milk. W have at last succeeded. We put in new stalls in
winter of \(1905-6\). Since then we have had al most perfect success. If the cow in her stall is properly managed it is impossible for her to get herself dirty. Each cow has a stall. The
manger is movable, so that whether the cow is long or short, the stall is made the right length,
so that the hind feet are near the gutter, and to


\section*{4. - Front view of M}
prevent her backing into the gutter a small rope
or chain is hooked across behind iust above her or chain is hooked across behind, just above her
hocks. The gutter is ten inches deep and tweive inches wide; the top is half an inch below the the of the fioor; the floor slopes a little to cow has perfect liberty. Not being tied, she can
stand or lie at will without soiling herself.

AN AMBITIOUS DAIRYMAN.

\section*{©ditor "The Farmer's Advocate'}

I have been keeping individual milk records minute per day per cow to weigh her milk and set down the weight. I keep a spring balance
and a sheet with each cow's name or number and a sheet with each cow's name or number
directly back of my cows. I started this record to ascertain, if possible, which cows were paying me a profit and which were not. I also have a four-bottle Babcock tester, and test my herd once
a month; it takes four minutes per month for four cows, and a definite knowledge may be had of which cow really pays. I have learned in
these two years that the cows I should have these two years that the cows I should have
called very good ones before, are fit only for the I think, if a man will begin to weigh each cow's milk morning and night, and see what a interested in each cow, will feed better, take betlar care of his herd, and, therefore, receive a arger income. I will here give an instance of
two of my cows. One was a grade Shorthorn, which I was proud, the other a small grade Ayrshire. The Shorthorn would eat twice as much as the Ayrshire (this was when I began my
records). She was giving 35 pounds per her test was 02.3. The Ayrshire was giving 25 pounds per day; test, 04.6. The Shorthorn would go dry four months out of twelve, the Ayr-
etting my herd where they are giving a better ow of milk, and a good-testing herd. In 1904 got an average of 3,000 pounds of milk per cow 4,800 pounds ; and still a good chance to gain This was done simply by weeding out my poor ows. I am in hopes to soon reach the 8,500 mark, with 300 pounds butter-fat. I think, by
using the spring balance, the Babcock test, savising the spring balance, the calves from my best milking and testing cows, and using a pure-bred sire from a good milking strain, I can soon reach the mar
L. S. COLT. am aiming for.

\section*{TEN - COWS RECORD}

Hartman Snider, who lives about one mile rom Ernesttown Station, G. T. R., in the County of Lennox, drew \(\$ 695.95\) from Farmer's Friend being an average of \(\$ 69.59 \frac{1}{3}\) each, besides keeping the Sunday morning's milk for butter part of the
season. The factory started April 11th, 1906, eason. The factory started April 11th, 1906, Holsteins. This does not count calves or spilt Holsteins. This does not \(\begin{aligned} & \text { count calves or spil } \\ & \text { nailk. }\end{aligned}\) LUEEY LUCAS.

\section*{POULTRY.}

\section*{RAISING TURKEYS}

ELEMENTAL INSTRUCTIONS
Huron County subscriber asks us to give a few instructions on the raising and feeding of
young turkeys. This subject was admirably young turkeys. This subject was admirably
covered in a series of three articles by W. J. Bell of Simcoe, Ont., in "The Farmer's Advocate "' o March 15th, Murch 22nd and April 5th, 1906. However, for the benefit of new readers, we shall
undertake to summarize Mr. 'Bell's points, and undertake to summarize Mr. Bell's points, and
will also be pleased to hear from anyone who will also be pleased to hear from anyone who pon personal experience
We all know that turkeys require ample range. It is well not to keep more than one bird for each
two acres of land in the farm. Turkeys are great foragers, and will glean a good part of their living from waste grains and grasshoppers in the creases the amount of extra feed necessary, saturates the premises with some chemical or bacteriological material or other that militates against loss by specific germ diseases, such as blackhead and roup. The more fowls, or, for that matter, the more stock of any kind, kept together, the greater the chance of introducing diseases, and the
greater the damage sustained if they are introduced. This is the greatest obstacle to the success of special poultry-farming, and it applies

An airy building is is sufficient for the the worst. weather. Close buildings are injurious to health and thrift. The ordinary henhouse is too warm
and stuffy. Basement barns are especially to be a voided.

The age of breeding birds is unimportant, but good strong, healthy, well-matured females of me-
dium size, mated to a good-sized, long, vigorous male, will prove the most prolific mating, and on an average five females will be required to make
sure of fifty poults. Some undertake successfully sure of fifty poults. Some undertake succeessfully to break up the hen from hatching after laying
her first clutch of eggs, set these under a hen, and have her lay another lot; but the plap is open to objections. A turkey is the best mother
for her own poults, and an early-hatched turkey is for her own poults, and an early-hatched turkey is
worth much more than a late one. The latter are the first to contract disease, and often introduce it into a flock that would otherwise remain The breeders should be in only moderate flesh and to prevent the females becoming too fat, grain should be withheld from them towards oats or wheat male should have a good feed of give the preference to those long in body and short in leg, as they do not show such a prominent breastbone when dressed as do the deep; Regarding the matter of inbreeding Mr Beli Claims that in the beginning of his turkey-raising experience he selected his birds for many years, and bred them irrespective of relationship. He that deformities, such as crooked toes, wry tails and crooked breasts, were becoming common, To male from a pood he now buys an occasional female from a good flock and mates her to one of best female and mates the following season to her sire. From this progeny he selects the best claims that the untoward effects of inbreding come from selecting the worst specimens as breed-
own part，we cannot help looking askance at the
idea of such close breeding．No doubt ligent，capable breeder，who feeds well and take good care of his flock，may inbreed to some ex－
tent with impunity fent with impunity．It was the selection，care， for the increase of size in his birds，but Nature raised her protest after all，in the form of in－ creasing tendency to deformity，and had not a change of practice been resorted to，we have no
doubt other unfortunate results，such as lack constitution and barrenness would have resulted in course of time．The turkey fancier may be driven to breed closer than otherwise desirable in type and points，but to the commercial grower market poultry，our advice is not to inbreed more many a successful poultryman would suspect that successful，from a utility point of view，if he in－
bred less． successfu
bred less

Laying and hatching． not get out of them should be fixed in tureys can－
fence corners and outbuildings ear－by fence corners and outbuildings early in spring， lookout for a nest some time hefore laying．on the straw makes good nesting，but should be renewe
before the turkey is set． before the turkey is set．Gather each egg as laid
and keep in bran in a cool room，turning it a and keep in bran in a cool room，turning it at
least once a week．When removing an egg from
the nest，it is well the nest，it is well to leave a hen＇s egg instead This is cheating the old turkey，of course，but so the turkey is unquestionably broody，give her then eggs－never more than 20 －and dust the nest thor oughly with fresh insect powder．Make the nes the center and some may be broken liable to be bothered my dogs or skunks，If she is on the nest at night．Make sure that she can before the four wheeks are off．About three day freely over the heen on the nest．shake insect powder Beell is an important point in turkey－raising．Mr poult for lice，and ne her had to grease a young natal application of insect，powder bird should become lousv，use insect powdeng preference to grease．If a coop that has been
used the previous whitewash it thoroughly is to shelter the brood， the hen，so that it may be dry when of dusting preliminary stavg carried the reader through the him to digest the above business，we shall leave the urticle＂＂to be continued in our next＂） From East Middlesex，Ont comes the of a precocious pullet，which began productive terprise at four months of age，laid about three eggs she hatched as many chicks，and is is seven the sunny side of six months．Her owner wonders
whether whether any Professor＇s fowls can beat this record

\section*{GARDEN 敨 ORCHARD}

THE ADORNMENT OF RURAL HOMES
By Prof．H．L．Hutt，Ontario Agricultural College． By the judicious planting of trees alone，the
general appearance of many homes may be greatly
improved，but there is nater general appearance of many homes may be greatly
improved，but there is nothing like shrubs and
vines to tone down the harshnuc vines to tone down the harshness and give detail
and finish to the picture．These present such
variety in form，foliage and thower of Nature＇s handiwork and flower．that no lovel
can afford to be without a roosd follo for them lengthy list of varieties may be found in aly A
the nurserymen＇s catalorues may be found growing wild in most any sectinds of the country． from，the amateur is often
selection．As a guide to
we would recommend th
with．These are selected as
our College grounds，and what
mate here．we feel safe in
mate here，we feel safe in recommending
greater part of the Province．
in the order of their season of hloom，it
coming in bloom with us about the A Cosy Cottage．

the season may be covered from early to lath．age．Among the flowering

the second week of May，lasts two weeks． 3．Pyrus Japonica，or Japan quince，in
about 15 th of May，lasts nearly three worls




6．Bechtel＇s double－flowering crab．in bloom 7．Spiroca Van Houteii；in bloom about third 8．Viburnum and lasts about two weeks． bloom the first week of June，and lasts over two
weeks． 9．Lonicera Tartaric bloom the first week of June，and lasts about a
week week． 10 wergane and June．Weigelia rosea，in bloom the first weeks of 11．Philadelphus，or mock orange，of several from two to three about 15 th of June，and lasts


Shaded with Maples and Adorned with Vines and Climbers．
Home of A．W．Peart，Burlington，Ont
12．Rhus cotinus，commonly known as purple of July，and plumes last tiom about the middle 13．Hydrangea paniculata November． bloom about the middle of August，and lasts
about three or For southern sections of the Province，this list more tender kinds，such as the include unany of the Laburnums，etc．，which are not hardy at Guelph
In arranginy well to avoid the common mistale grounds，it is well to avoid the common mistake of scattering
them all over the front yard．The as has already been mentioned，The tront lawn， more or less open to give an air of breadth ant
expanse to the grounds． expanse to the grounds．A few ine specimen room for full de development and show to they have

unite in the most harmonious way the walls
the building with the surfice of grouping them thus about the buildings，the tall
specimens nay stand in specimens may stand in nooks and corn the tall while lower－growing the view from the winlow neath windows，and in this may be plantor pleasing outline will be presented a varied and near the continuous hedge and near the walks shrubs may also beog the drin or walk，there should be curve is made in a drive curve appear necessary，and nothing answers the purpose better than planting a clump of shruls
in the bend The more one is acquainted with the habits will grow，the better he can arrange thich they give the most pleasing results；but it is well to
plant them fairly coose，and thin out or plant afterwards，as may and thin out or trans give desired effect．
It is well，in planting upon the lawn，where the ground cannot conveniently be given，to mulch
the around the lushes with coarse strawy manure or other material which will hold sood storit and enable the roots to make－ In caring for shrubs and trees about the home，
the main thing is to keep them growing thrif and healthy．As a rule，very little if any pruin plants of that kind．Fach tree or bush showng cannot too strongly condemn the practice of spoil cannot too strongly condemn the practice of spoil－
ing heautiful trees and shrubs by clipping them
into unnatural shapes greens．In in proximity as is often done with ever
Io large public buildings trees and shrubs are clipped into regula in which may be adopted if it is in keeping with its sur－
roundings roundings，but on the rural lawn，where the Surroundings are all more or less natural，and
even on city lawns，where the pretentious，these clipped vegetalle curiosities not ridiculous．And，for the same reason，many other artificial constructions，which reason，many
to from time introduced to time introduced on otherwise natural grounds，
are to be discouraged． vines and climbers are particularly limited lage and town lots where the space is the growth of the surface available is desired for valuable for the adornment of are none the less shrube be used in conjunction with ornamatal them with add beauty to the buildings，and unify are many kinds of and its surroundings．There their luxuriance of foliatire viror climbers，differing in for climbimbing．Some are particularly adapted purpose the upon brick or stone walls．For this purpose，there is nothing better wan the For this hardy to stand the winter． At hardy it is not sufficient－
Io hardy depended up－
on．although if on．although if given protec－
tion for two or three winters
it oiter it often coovers a wide stretch
of wall，but then may he
killed back ground．back to near the
climbers of the hardiest forms of this：the common－
est one（Ampelonsi est one（Amprelopsis quinque－
folia）climbs hy means of
tendrils，and is best to cover a wooden build－
ing．or hide from view an un－
sightly outhouse． Ampelopsis quinquefolia，var．
Fngelmanni）cling to the
lurick or cto （limhing Bistonsweet（Celas－
trus scandens）is bowing vine．iound wild in
many parte of the country，
which climbs byy and，if given a hy twining
soon climp，the pillare，vill
 （4）
hard, bare subsoil excavated from the cellar,
which is usually banked around the cellar walls.
If the soil is not of good quality, it should be
dug out, and good rich soil put in its place
Nor should vines be planted so close to the wall Nor should vines be planted so close to the wall
that they are deprived of moisture by overhanging eaves. On the other hand, the lack of eave-
troughs may allow them to get more water than they can stand
hey cause much annoyance from their stinging hat
which cause excessive irritation when they come in ANNAPOLIS COUNTY, NOVA SCOTIA
tact with the human skin. Each hair is barbed, an
at the time the cocoons are spun these hairs are brok
of and carried by the wind, when they fall on t
neck and other exposed parts of the bory, giving ri
to the painful rach. which is wery gerious with sonpeople, even although they may not have actuall
touched the caterinilars. Dr. Howand's assistants wh
have been working on this insect have suffered very severely, and persons engaged in removing the nes
from trees in the winter time must be careful not
handle these nests too freely, or they may be incol venienced by this rash. The or they may be inco from the trees, placed in a basket with as little
handling as possible, and burnt at once. Dr. Howard states that "a large part of the popular feeling in New England that the brown-tail moth must be ex-
terminated, is due as much to the annoyance of this cash as to the loss of vegetation from the caterpil-
lars." As a remedy for this rash a free use of vaseline
DESCRIPTION OF inSECT.
The brown-tail moth resembles very closely known fall webworm, being of a beautiful pure white,
except the tip of the body, which in both sexes is brown, and from which the popular name is derived. globular tuft of brown hairs. . Both sexes fly freely, and are much attracted to lights-a fact of some imof night-sailing passenger steamers has attracted many as to have drawn the attention of the officers such vessels, who reported that moths have alighted
upon their ships in great numbers in the vicinity Boston about midnight on several in the vicinity of introduction of the species at more than one seaport
                    in Maine is attrinuted by Dr. Howard to vessels com-
ing from the infested districts.
                    spread by direct fight. districts rather than by natural
ONLY ONE BROOD IN THE YEAR.
The eggs are laid in masses containing about 300 eggs. These masses are brown in color from a thick
covering of the golden brown hairs from the tip of the body of the female moth, and the whole egg mass more
nearly resembles a silky, downy caterpillar than a cluster of eggs. These masses average about two
thirds of an inch in length by one-fourth of an tinct width, and are found on the lower surface of the leaves
in July. The caterpillars hatch in August, but do not injure the trees much before winter. As soon as the
buds burst in spring they are at once attacked by the buds burst in spring they are at once attacked by the
caterpillars, which emerge from, heir winter shelters and
do much harm.
summer treatment.
 other poisonous washes, so as to destroy the caterpil
lars during May and June. brown-tail moth are not so resistant to the poisonous effects of Paris green as are those of the gypsy moth.
The spraying of all occhards with the poisoned Bordeaux mixture as a regular practice is recommended to
all Canadian fruit-growers as the best general means o securing first-class fruit free of most of the ordinary
pests which iniure fruits pests which injure fruits. As the brown-tail moth
caterpillars attack many other kinds of trees than
\(\qquad\) be sprayed, and for this purpose l'aris green may be if
used. A good useful poison wash consists of
\(\qquad\) gallons. It is a very usual practice, however, among
fruit-growers to use more than one pound of Paris grut-growers to use more than one pound of Paris
green with lime in the 160 gallons. and, indeed, two
pounds may be used without danger if two pounds pounds may be used without danger if two pounds of
lime are added. Arsenate of lead is a newer remedy of great value, from the fact that it doess not injure
foliage so much, and remains on the leaves for a longer time. Three pounds of arsenate of lead may be used
in 50 gallons of water without injury.
\(\qquad\) enormous loss in Europe and the Inited States, is, un doubtedy, established in one locality in Nova Scotia,
and probably in several others. It is important to find out as soon as possible the range of infestation,
and everybody is urged to semd in as soon ns possible any suspicious nests of insects, or clusters of leaves
webbed together. particularly if they contain caterpil-
\(\qquad\)
\(\qquad\)
\(\qquad\) 6

\section*{THE BROWN - TAIL MOTH IN CANADA.} In 1902 Mr. William McIntosh, of St. John, New
Brunswick, took a single male specimen of the brown-
\(\qquad\) November to the 15th of April it has been possible to
haul logs on snow anywhere in the forest. Every
furmer is farmer is waiting for spring. Altheugh a long, cold
winter, there has been little depth of snow. probably not more than 20 inches at any time, and still we have had at least the usual aunount of sleighing and sled-
ding, consequently the frost has entered the gro more than the usual depth. From present ground to we will have frost in the ground in May I wonder if any of your readers has, n agree with what an old farmer told me not long ago ?
He said he had always He said he had always noticed that after a winter in
which there was little snow, that the more quickly after rains and suffered more from dry weather the following summer than if the winter thad
been one of heavy snowfall been one of heavy snowfall. I suppose if the fact
were reduced to theory it might pe explained the soil is less thoroughly saturated by the melting snows of the winter in which there is a scarcity of snow, and therefore the rains of summer are more quickly abb-
sorbed. It was quite noticeable last sorbed. It was quite noticeable last summer that the
ground became dry very quickly after each rain. and we certainly had very little snow in 1906. If this be
the the case, we shall need to get the cultivators at work need all the moisture we can wet and keep we shall is new will hold good in any case, for the cultivator tions in liable to be used too often. In our observaduring the summer-when farmers use it once or twice sary to keep down weeds-to one who uses it often to tion of the tool However, the right use and appreciawe see it used is gradually spreading, and wherever As deforestation continues, we will be forced to crops. better methods of cultivation, and perhaps there is keep important subject for our Institute workers to frequent cultivation. ingly in fruit trees have come through the winter seemprevalent among some of the old-time farmers that a vertain sleot storm in March, which covered the trees eggs, etc., of insect pests. The effect of destroying the from this belief will be that these farmers will take this as an excuse for not spraying.
Apples are pretty well sol


THE FARM BULLETIN
RETAILERS AND THE SEED CONTROL ACT
keen among the seedsmen, or, perhaps better, their agents. The result is one has an opportunity of mak dealer handling the seeds of thonally we find a local ne point a farmer was told that or more firms. A ing at was Government standard when he asked if it were free from weeds; to which he replied, I find that will take a sample and send it to the Seed Branch, and seed turns out all right \(I\) will take so much of that A number of the seed retailers, when weed seeds are pointed out in their samples, say then weed seeds are pointed, and another year the wholesaler who gets his
order must give a writiten guarantee that the seeds he order must give a written guarantee that, the geeds he
buys will grade No. 1 under the Act, for what he wishes to sell as No. 1, and that the other must be kood enough to sell. A few of the large firms seem to
be grading some of their brands very maximum number of weed seeds allowed to to sold,
viz., 5 to 1,000 . This is rather a foolish and dangerous policy. Some of the English and Chili seeds which have
been imported are very large. and make a fine looking sample, but too frequently they are being offlered in the curled dock too many weed seeds, such as ribgrass, curled dock, fool's parsley, catchly and dodder, besides in color and flavor. Most of the farmers have have except their supplies of seeds by this time, but very often they run short and need some to finish out a piece. That is the time to look out for low-grade seds. The .best
seeds are usually bought up first by enterprising farmseeds are usually bought up first by enterprising farm-
ers, while tenant farmers are too frequently satisfied
with with the cheaper grades, much to the disadvantage of the land owners, who, if they wish to keep their farms
clean of noxious weed life, should furnish the clean of noxious weed life, should furnish the small
seeds to sow themselves.
\[
\begin{aligned}
& \text { On the whole, it may be stated that the seed mer- } \\
& \text { chants are conforming to the law pretty well, and the }
\end{aligned}
\]
\[
\begin{aligned}
& \text { chants are conforming to the law pretty well, and the } \\
& \text { average of the seed for purity is growing better from } \\
& \text { year to year. }
\end{aligned}
\]J. A. Ruddick, Dairy and Cold-storage Commis-sioner. Department of Agriculture. Cotawa, has been ap-
pointed Canadian delegate to the third International Congress of the International Dhe third International mects this year in September at the Hague, Holland.
He will also attend a health convention in Brussels,

\section*{Agricultural Legislation of 1906-'07 at Ottawa.}
 maintenance in good and efficient working order, of
pubblic cold-storage warehouses equipped with mechanical refrigeration, in Canada, and suitable for the preservation of all food products.
Upon the approval of the Governor-in-Council of the
details of plans, specifications, location and amount to details of plans, specifications, location and amount to
be expended upon every such warehouse, the Minister of
Agriculture grants towards the construction and equipAgriculture grants towards the construction and equip-
ment of such warehouse a subsidy of thirty per cent per cent. upon the completion of the cold stora 1 , its satisfactory operation; 7 per cent. at the end of the first year following; 4 per cent. at the end of the sec-
ond year ; and 2 per cent. at the end of each of the ond year; and 2 per cent. at the end of each of the
two next succeeding years; provided the warehouse is
maintained and operated to the stist Minister of Agriculture.
THE MEAT AND CANNED-FOOD ACT is a measure that should very materially assist the export trade i
meats, vegetables, fruits and fish.
Its purpo meats, vegetables, fruits and fish. Its purpose is to
safeguard the trade in these products from charges o unwholesomeness, and in this way establish the same
measure of confidence for these foods as already exists measure of confidence for these foods as already exists
in Canadian cheese and butter. A meat inspection measure has been recommended by the Veterinary
Director-General for two or three years, but not until the effect of the revelations of conditions at Chicago pear necessary in Canada. The puhlicity legislation ap findings of the inspection commission appointed from
Washington, gave all canned Washington, gave all canned goods and products of meat-packing plants a name so bad in the minds of
consumers wherever American foods sale for them sale for them fell off greatly in all the leading markets
of the world. To insure confidence in Canadian
dressed, cured dressed, cured and canned meats, etc., the new measure
was enacted
To the great satisfaction of the Government, an in-
spection of all the meat-packing plants in Canada, preparing food for éther export or interprovincial
trade, by an official of the Department of A trade, by an official of the Department of Agriculture,
revealed a generally satisfactory condition revealed a generally satisfactory condition. The plants
themselves, and the manner in which they were found
to be operated, were calculated to turn out wholesome food in attractive form. It was to insure a continua-
tion of this condition, and to have the products of Canadian factories marketed bearing the seal of Gov-
ernmental inspection that the meats and canned-food act was introduced and made law by the P'arliament of
Canada. There are two main divisions to the hill. The
provisious in regard to meats, including dressed car.
casses, cured bacon, hams, dressed poultry, sausares and all canned or bottled meat profucts are a litesle
more drastic than the provisions which apply to fruits, more drastic than the provisions which apply to fruits,
vegetables and fish. In plants where the former are spectors are to be constantly employed, io insprect the animals alive and again after slaughter, and the parts
thereof in the course of curing or canning. That found thereof in the course of and fith for food shall be duly marked by the
healthy and fit for
inspector, which mark it is intended shall constitute guarantee that the
vision is made fo
sidered necessary,
sidered necessary, with a view to determining whethre
the product has undergone deterioration since the first
inspection.

Carcasses or portions thereof considered unhealthful
Cartions
 provided for false marking, tampering with marks, ob-
structing inspectors, and other violations of the Act. Hops, per 1b.
The Governor-in-Council may suspend the operations of The Governor-in-Council may suspend the of therations of
any sulbous roots, any sections of the Act until the beginning of the year
1908. The industry to be safeguarded by this Act is now
worth about twenty milliog worth about twenty millions of dollars annually for export alone, while the interprovincial trade in these
products is enormous. It is calculated products is enormous. It is calculated that some Tomatoes, bush
\(\$ 60,000\) will be required to carry out this inspection the first year. This will include the salaries and ex-
penses of from 35 to 40 inspectors, in additio to penses of from 35 to 40 inspectors, in addition to the
bonus of \(\$ 100\) granted to bonus of \(\$ 100\) granted to each candidate who chose to
prepare himself for inspection work by takite prepare himself for inspection work by taking a special
course in meat inspection at Chicago time there are in Canada from 15 to 20 meat-packing plants that will require constant inspection, and from
60 to 70 canneries that will 60 to 70 canneries that will need occasional supervisory
inspection
the tariff changes
The Customs Tariff Act of 1907 difters from tariff measures previously enacted by the Parliament of Caul-
ada. Heretofore one specified peneral tariff vided for, while the Act of 1907 makes provision pro-
three three separate specific tariffs, viz.: British Preferential,
Intermediate and Intermediate and General.
The British Preferential duced or manufactured in the following British coun
tries United King imported direct to a Canadian port: The Guinea, British India, Ceylon, Straits Settlemen, British Cealand, Cape of Good Hope, Natal Setlements, New British Colansvaal, and Southern Rhodesia. Any other an order-in-council, and the preference payefence by drawn by the same procedure fromerence mand after, in with-
case aither Canadian Gablicte. In the old tariff of 1897, which remained in opera-
tion until the present one came into force in Novemtion until the present one came into force in Noven-
ber, 1906, the British Preference amounted to a reduc-
tion of 25 per cent. of the general tariff on all Britioh goods, with the exception of certain spirituous liguors medicines, tobaccos, etc. This refefrence, by the Act
of 1907 , is set at a fixed amount or percentage form of 1907, is set at a fixed amount or percentage for
eartice specified.
The Intermediate Tariff shall apply to goods the produce or manufacture of any British or foreign coun-
try, to which the benefits of it shall have heen extended
\(\qquad\) sideration of favors the Governor-in-Council, in con-
By this products of Canada
By the ars articles shall be transferred from the general to the intermediate classification. This trans-
fer shall have effect simultancously with. of the order-in-council in the Canadian Che fateltication
vision is made for the withdrawal if this vision is made for the withdrawal of this benefit at the
discretion of the Governor-in-Council.
This intermediate tariff has not operation with any country. It is purely a purovivion
for a reciprocal Bet a reciprocal arrangenent that may be entered into
beteen the Gernor-in-Council and a country seeking
better terms than the general tarif better terms than the general tariff affords.
In order to guard against the effects of undervalua-
tion of imports fon of imports, provision is made in the Tarif Act
for levying a ssecial duty ("Dunping 1haty") on suct
articles equal to the diferencel articles equal to the difference between the ") on suid
price for the article for export and a fair murke for home consumption. This special duty is limited to
fitten per cent., ad valorem. Exempted foords dom, and binder twine made from certain grasses or
fibros and pound. Heasuring not exceeding 600 fet Again, a surtax is provided to apply to the goots
of any foreign country which treats imports from Can-
ada less favoraty then ada less favorably than these from other countries.
The amount of the surtax when imposed shall be one-
third of the duty specified in the pene third of the duty specified in the general tarift. This Articles for which changes in the general customs cariff have been effected by the Tariff ant of 1907 :tor unfit for food, or which contain such ingredient. on
preservatives as may render them unfit for food, shall
be marked by the inspector in such a maner as to in 1 yr. old. valued at \(\$ 50\)
regulations provide.
In the case of fruits, vegetables and fish, the
provides for sufficiently frequent and thorough inspec-
provides for sumplants to ascertain whether these are
tion of packing platy
kept in a sanitary state, and whether the products pre-
kept in a sanitary state, and whether the prolucts pre-
pared and packed for export are sound, wholesome and
pared and
fit for fogd

\section*{}


THE 1907 SESSION'S WORK OF THE ON tario legislature
tural Societies Aal societies
tion for the first time this year. A sloes into opera act was passed at the recent session, providing for the incorporation of a few societies whose aftairs were in a
somewhat uncertain condition. somewhat uncertain condition, whose alairs were in and
ties, those of Forest and Chased two socie ties, those of Forest and Chesley. from horicultural
societies into agricultural societies.
It anpenrs societies into agricultural societies. It appears that
for some years these two societies have heen carrying on some years these two societies have heen carrying
controlled tural weork, and separate ant ant the two classes are now controtled by separate acts, it was necessasy to transfer
them from the one class to the them from the one class to the other. The old quess
Kion or horse-racing at fairs has been a subject of much
discussion
 asked the Minister to take the ban ort horse-racing and
deave it to local option. The Government deave it to local option. The Government has not seen
fit to do so. Then the representatives asked the Gov-
eramient to protect the

 ister decided that as the enforcement of this part of
the act has always been he would protect the directors thus far, in that prosecutions must be inaugurated by members of two yesrs
standing the standing. The fact is that agricultural exhibitions arse
run by the directors and not by the members.
result is the run by the directors and not by the members. The
result is that directors cannot ignore the wish of the
menmers in this mentbers in this regard. For the frst time a vote
\(\$ 5,000\) appears, to be divider among the \(\$ 5,000\) appears, to be divided among the Toronto Lon
don and Ottawa exhibitions, which do not share in the don and Ottawa exxibitions, which do not share in the
\(\$ 70.000\) grant for abricultural societies.
LIVE STOCK -The LIVE STOC.- The report of the commissioners ap
pointed to enquirire into the horse industry was pre sented to the Legislature, and is now being printed
The Minister did not intradue upon it. Opportunity will be given for a full sideration of the evidence, ane meen ior a full con-
be hetd to discuss the subject.
There
The appears trobably Be held to discuss the ewbect. There appears to be a
wide diversity of vies as to what should be done.
The Minister propuss to mone sides to be heard. The grant for the spring stallio
show was incrased from 8 . 10 ono
 make grants to local horse shows investigation and
nounced that the question of entare and luildings at Guelphestion of enlarging the winter Fait beonsidered and decided be
fore the next session Ore the next session. Provision was made for special
swine sales in Eastern
Ontario wist
 he London, England, horse show.
INSTITUTES. Th an increase in the cont ongencies noticeable change here is
we understand, to provilide for tho the Superintendent. DAIRY BRANCH-The grant for instruction and
inspection has been increased from \(\$ 32,500\) to \(\$ 35\),oove Thspection has ben increased from \(\$ 32,500\) to \(\$ 35,000\)
This, howere, doos not really represent the increase
 rovince will be visited. The aim is to enforce the
act, so that all lactories will be required to sanitary conditions \(A\) targe deputation pressed providen
the Minisister to assist by a substantial vote the holdceded to. The Minister, apparently, is of the not acthat the strengthening of apharenty, is of the opinion calls for more immediate attention
FRUTIT. The new experimental fruit farm in Lincoln County has demanded a good sized vote 815,000 is
available for new buildings, equipment and expenses We understand that no pains are being spared in search-
ing for a live expert, who will take charree of the in portant work. It would be easy to tond a man who
could grow fruit, but what is wanted is a man who can produce new varieties of fruit. Ten thousand dol-
lars was voted dor spraying. San Josese scale and as-
 lars has been set aside to be voted to these associa-
tions, based on the work done hy power sprayers. An amendment was made to the scale Act. The section
,roviding for the appoint unent of t...nsllip inspectors was. enlarged as follows the inspectur the the council



 \(\qquad\)


\begin{tabular}{c} 
ing inspectory \\
work whereby \\
\hline
\end{tabular}
permitting to
vectors as he thought nece
The grant has been increased to \(\$ 1,200\)
as © \(x\) Pla inined that he intends to appoit

\section*{THE FARMER'S ADVOCATE}

to complete their general plan. Toll roads may
purchased and included. Villages and towns PIONEER FARM.-It is proposed to start a new selparated) and may be assisted in inger and towns in
experimental farm in the clay belt of Northern Ontario. form part of the plan. The plans are to be ape that experimental farm in the clay belt of Northern Ontario. form part of the plan. The plans are to be approw
Three thousand dollars was provided for clearing and
beginning the work. payers. Then the Government is prepared to pay ratio-
third of the cost of the improvements of the improvements. ONTARIO AGRICULTURAL COLLEGE.-Provision third of the cost of the mprovements.
is made for the continuing of the work already in hand
SUGAR BEETS. -The bounty of \(\$ 75,000\) a year hat and also for extension. There will bo increased work in plant-breeding and in testing wheats and flours. Several votes were required to complete the work begun
in 1906 in the Mechanics Building. Chemical Laboratoin 1906 in the Mechanics Building, Chemical Laborato-
ries and greenhouses. In addition, there will he
 roof for main building, and an addition to accommo ation the decision apparently reached arter full consider date 40 additional students. The total vote in capital it, as or estimates.
account amounts in regard to it, either in imgisla-
\(\$ 77,225\) a TOTAL EXPENDITURE, - Apart from capital ac ers have had the power to - Hitherto, ingovincial coron count, the total appropriation for agriculture was the causes of fires, but it was found difficult to gather \(\$ 505,453\), as against \(\$ 160,557\) in 1906 . that special efforts would be made during announced assist farmers to procure help. The appropriation this year is \(\$ 55,665\), an increase of \(\$ 17,000\) over 1906 .
AGRICULTURAL TEACHING. -A beginning is to be made in introducing agricultural courses in half a
dozen high schools: \(\$ 6,000\) was proviled for the pur
pose. The intention pose. The intention, as announced, is to select six
high schools. Teachers are to Agricultural College. The courses have been arranged
The Government will trant work will be wiven, and experimental plots will the established. The teaching will be adapted to the agri-
cultural conditions of the section in which is located.
it provided for the organization various special acts
manufacturing comperse and butter manufacturing companies and co-operative fruit companies. All these have now been provided for in the
new Companies Act. The companies already organized will be continued, but hereafter all companies must be incorporated under the new act of the Provincial Secre
tary's Department. The methods of tary's Department. The methods of incorporation will
be simple and the fees low. The aim is to have then all registered in one place, have all report to the one
and
 been felt that the modes of organization were somewhat crude and uncertain, and that the farmers' organi-
zations should receive as much consideration and pro-
tection as the more ambitious organizations of tection as the more ambitious organizations of larger
vaptation.
vFTERINARY SIRGEONS no one is allowed to use the title "veterinary surgeon".
unless he holds the diploma of the Ontario Veterinary College, or the certificate of the Ontario Veterinary
Association, which practically amounts to the same Association, which practically amounts to the same
thing. Occasionally a petition is presented to the Lepislature to permit someone to use this title who
has not taken the course at the Ontario Veterinary
College. the ground being that of experience. At the
cos recent session two bills were presented and passed,
authorizing Jerry Brisson and
practice as veterinary surgeons. Anas Johnston to
Announcement was made during the past year that the Governmentl propase
to take over the Ontario Veterinary Collepe and conduct it along lines similar to those of the Ond orio
Agricultural Colloge.
Nothing Agricultural Colloge. Nothing was presented to the
Leemislature, as the announcement was made that Dr.
Andrew Smith will complete the Andrew Smith will complete the education of the pres-
ent classes, but students entering in Octoler ent classes, but students entering in October, 1907 , will
be required to take a three years course, and the (Giv-
ernment will take over the work in 1908. Terms are ernment will take over the work in 190 . Termis are
now being arranged between the ciovernment and IIf. he selected during the coming summer. creases in grants occurs under the heading of public was \(\$ 629.178\); this year it is \(\$ 896,667\). The Act
amending the Public Schools Act sets forth a new hacis
for the payment of salaries of teachers in rural puthic

 are required to raise the nmounts to pay these salarien

\(\qquad\)

An amendment has been passed, whereby the same officers "shall have the power to investigate cases of
maiming or suspected poisoning of horses, cattle" other domestic animals." The proper course now to firect to the Attorney-General. tions have crossed the seven million dollar mark-to be exact, the appropriations for all purposes this year
amount to \(\$ 7,044,382.28\). The Provincial Treater eported cash balances on hand wn the first of Jane ry, \(\$ 3,497,240\), and he estimated receipts during the
vear amounting to \(\$ 7,612.287\). It will per he readers of this article to know where this money万orinimion Subsidy …......................... \& 1.339.287 Tinterest on Trust Funds and Investments... 170,00 Crown Lands, Lenses and Sales Rents........ 1,715,000 Royalty and Crown Mines ............... \(\quad 267,000\) rovincial Secretary's Dep,t. (eharters, etc.). \(\quad \begin{aligned} & 700,000 \\ & 175,000\end{aligned}\) 1'ublic Institutions
Central Prison Industries
 (87.612.287

DALGETY BROS.' CLYDESDALE SALE The 18 imported Clydestale fillies, advertised by
Dalgety Bros. 10 be sold on tril 2 the was attended by a medium-size but such as this firm handles, fillies were a real good lough their long quite tedious and nearly all looking gaunt from I'rof 1 , praye of, the highest price, \(\$ 600\), beeng paid by
the Ontario Agricultural College farm
 Sunthwer, foaled 1903: Ont. Agri. College, Guelph. \(\$ 600\) reggie 11., '03; A. B. McDonald, Appin............... \({ }^{40}\)
330
Flowerdat. Miserdale, 04 ; John Stewart, Springbank.......... 335 Orskie Bridesmaid, O3: Win. Boyle, Lucknow....... 305 Lady Perth, 04 ; John Stewart
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)305
440
290290
275
300)
Cry fillies sold: average, \(\$ 334\).
Cry fillies sold: average, \(\$ 334\).


\(\qquad\)
noll\(-2\)

 











\section*{MARKETS.}

TORONTO
Live stock
\$.50; strong bakers', \$4.
COUNTRY PRODUCE. Butter-An easier feeling prevailed, es-
pecially for choice dairy pound rolls, as
receipts have been much larger, causing
a drop of 2 cc per 1b. in this grade.

MONTREAL

shows a consitacratio improvement. Deal ers profoss to believe that by the end
the week there will have been anothe break in the market and that 20 . will
represent values like an attempt to force the poce, a aresult of which action is
opposite of that destred.
Cheeso-There is very little interest in
the market for cheese. Cables to the Che market for chese. Cables to the
other side have met with no response and the market is now lower than
 Flour and Feed-The situation in the market for feed is more acute than ever.
Almost no bran Almost no bran or shorts are to be had
and millers will ooly sell to those who
purchase a certain purchase a certain proportion of liour
For Manitoba shorts, on spot, fully \(\$ 23\) and \(\$ 24\) per ton, bagged has to be paid.
while for bran, \(\$ 25\) to \(\$ 26\) is charged. Grain-The market is stronger than
week ago and prices are about to. per
bushel hivher bushel higher, at \(43 \mathrm{jc}\). . to 44 c . for No. No.
\(2,22 \mathrm{yc}\). to 43 c . for No. 3 and 41 tc . to 42 c . For No. 4, store, for local account.
There is practically nothing else doing in grain in the local market.
Hay and Hayseed- \(\$ 13.50\) to 814 per
ton Ior No. 1 timothy, \(\$ 12.50\) for No. and \(\$ 11.50\) for clover. Demand for all
kind
markot hayseed is very active and the market is frm all round. Dealers are
selling timothy at \(\$ 5.50\) to \(\$ 7.50\) per 100
 \(\$ 17.50\), white clover at
alike at \(\$ 13\) to \(\$ 18\).
Hides-The market for hides is easier
Demand is quite dull and the quality

 for country take-oif and tc. more than
theso price for city hides are
Thelling to tanners at \&c. advance in each
to ase. Calt skins are steady, at 18c. pe
b. for No. 2 calf and 15 c . for No. \({ }^{2}\) heep skins are \(\$ 1\) each and spring
limbs 10c. Horse hides and tallow,
british cattle market.
London.-Canadian cattle are easier at
1c. to 12 c . per ab. ; refrigerator beef is
tc.

\section*{TRADE TOPIC}
a rare good thing in early
potatoes.
Those who are looking for a really good thing in early potatoes should not
miss the chance offered to procure a stock of seed potatoes from Thos. Bous-
feld, of Carlisle, Ont., who is advertis-
 promoter, but a plain, practical searmer,
who has got hold of a very superior ho has got hold of a very superior
variety, and is letting his fellow farmers know of it through our collowns. Mem- Mem-
hers of ." The Farmer's Advocate," staff saw an exhibit or theres potacoes" at staf
soronto Exhibition last fall, and wo be-
ieve them to be all he claims.
variety
varity has been very highly commended



\section*{cossip.}
ale dates clained
May 9th.-W. J. Thompson, Mitchell,
 May 23rd.-G. A. Gilroy and G. H.
Yanhard, IIolsteins, at Brockvilie, Ont.
May 2ith.-Jas. I. Davidson at., dispersion salle of Clydydesdales and

Mr. John Campbell, Woodville

 The purchaser is to, be coneratulated on
scuring one of the very best bred







\section*{DEMENTIA AMERICANA} An observant and thoughtful Cana-
dian, after a somewhat extended dian, after a somewhat extended residence in the United States, tells
us of two very marked changes passing over the spirit of the dreams of
the Republic. So unnistakable is is
the strength of these tendencies that the strength of these tendencies that
they may be ranked among the most they may be ranked among the most
hopeful signs of the times on this continent. First is the waning idolatry of
wealth and wealth-getting. One of wealth and wealth-getting. One of
the premonitory symptoms of this
is the phenomenal and continued the premonitory symptoms of this of equality. One may see an aristois the phenomenal and continued crat in long rubber boots and wicker appreciation oi Wagner's "Simple with the bare-legged youth who foo Life," which a few
years ago struck a re sponsive chord in the
overwrought and overwrought and lux-ury-surfeited heart of the American people, in
contrast
with
which contrast with which
that remarkable little book was the very an
tithesis. To-day w tithesis. To-day we
see millionaires vieing
with with each other in placing their accumula-
tions upon the altars tions upon the altars
of humanity.
Some people are worrying
about their motives about their motives,
but these we need not but these we need not
stay to analyze. There is a distinct reversion to higher ideals, and a
slump in public esteem slump
of in public esteem
the unscrupulous money-making machine.
Secondly, there is a most wholsome revulsion of sentiment
among the thinking and self-respecting mass-
es against the mercenes against the mercen-
ary \(\begin{aligned} & \text { and } \\ & \text { low-toned }\end{aligned}\) ary and
press,
with
low-toned
its indecencles in prits indepicture. They hav come to discern at
last, with sure intelli-
gence, the menace that
a vitiated menarnalism a vitiated journalism
is to the youth and
future at ane undermining the wor of the home and the
school. The Government of Canada, thrombly with a maple pole and stringes his tion, has taken a position com, catch on a willow gat. strings his ewry movement. What litheness fach-ol-all-trades, and, as usual, not





MAY 2,1907
lie still, and, when disturled, dast
off excitedy, as if suddenly ed. This afternoon was a splendid
one, and, no doubt, a good many one, and were in languid progress. The spruce forest kept off any breeze that
may have been stirring, and the sun may have been stirring, and the sun man had rudely disturbed one sleepe
by jabbing at him with his paddle when somewhere overhead came a
cigh-pitched "he-he-he," like an un-
ciccessful attempt at mirth. It took a moment for the eye, roving across
the sky, to define anvthing in so im the sky, to define anything in so im-
mense a space, but at last it seized upon a black speck sailing ever so
high above the tree-tops. Like a tiny black satellite, obedient to some
invisible cosmic force, it described slow, wide circles. The circles gradeyes, following the wheeling speck,
descried another smaller one farthe way. Presently the two were together, swinging in great curves,
their paths crossing, approaching and at the will of creatures as buoyant as the atmosphere. I was not aware
then that these airy circlings were a feature of domestic economy-the
daily patrol duty. Yet, at their indaily patrol ducy
credible height, the two hawks were credible height. the two hawks were
beating up and down their fishing ground, scrutinizing the water away
below for prey. No doubt from that elevation the river looked very shalpeared as if covered by a glass plate.
Such, at least, is the impression givSuch, at least, is the impression giv-
en the human eye on looking from a height
he sur
The two were again separating, ond growing faint in the distance. The
other was coming our way, growing arger with every great circle. It less wings and spread tail grew disinct. It would soon pass overhead. the great wings fluttered rapidly as if in distress, and the body poised, stationary, for a moment. Then the wings hali closed into a flattened mate obiect, came shooting down-
ward, gaining terrific
velocity. Against the dark forest background
the eye lost track of its meteor-like he eye lost track of its meteor-like
fall, but almost instantaneously a splash of white spray rose high above the reeds. A great flapping
of powerful wings succeeded, and the lish-hawk, no longer buoyant, strug
gled wpward, holding in his claw.
something that glinted in the sun.

OUR ENGLISH LETtER.

ghan seen from my window at special trains, coaches and steam-
ere are provided, all these places are
atmont closely into touch with one
and are easy enough of ac: lut, and are casy enough of ac-
more quiet, even think I i prefer
mough more ons route which an early-spring
\(\qquad\)
\(\qquad\)
\(\qquad\)

THE FARMER'S ADVOCATE.


The Royal Glen, Sidmouth.


Esplanade, Sidmouth.
the 22nd of January, 1820 , at "The were covered with verdure, and with Koyal (ilen," a picture of which I that to crown my holiday, I had to
It is a very simple, unpreten- be, and indeed was, quite content tious house, and is but little altered except that the larger grounds sur rounceing it are public thoroughiares,
ince the infant Princess Victoria What doing ? pent her first Christmas day there. errands and claning inkwells and so boys, shooting birds in an adjoining
fieys, shooting birds in an adjoining ". Like it ?" First rate; that is, until my em tion of the house, and that one of pluyer hal the nerve to ask me out to
the shots went through the window his house to dinnur. It's pretty tough the shots went through the window the house to dinn"r. It's pretty tough
of the nursery in which was sleeping to have to associate with our social in-
the future Quecn of England. Hap, foriors out of business hours."-(Life.

The Quiet Hour.
BE COURTEOUS
Courtesy is hut a fasehord or brimace:
need not be such.-" Bending befor men," is a recognition that there does dwell in that presence of our Brothe something Div

In the R. V., the words I have chosen as the text are translated, " umbleminded." So, also, where it is tated-in Acts xxvii-that a Roman cen
urion "courteously entreated Paul," the revised translation is "treated Pau kindly." It would seem, then, that true
courtesy includes humility and kindness, and it is a grace well worth cultivating The Roman soldier's unexpected courtesy and kindness to one of the prisoners i is charge is still remembered in his
honor, long centuries after his acts of hold daring have been forgotten by th World. And other acts of courteous hough performed many centuries relief, Rome was even thought of. Look at hat tableau in Genesis xxiv. An elder hirsty tral-stained man, hot and tired an thirsty, goes up to a fair young gir
and says: "Let me, I pray thee, drink little water of thy pitcher." How graceful and kind is her ready re
sponse as she quickly lets down her pitcher upon her hand, saying ". Drink, my lond;" and, as if that were no enough to satisfy her desire to show hospitality, she adds, "I will draw
water for thy camels also, until they have done drinking." And this was not mere Oriental parade of grand and meaningless words, for "she hasted, and ran again unto the well to draw water and drew for all his canels."' Though
that little scene was acted about 4,000 that little scene was acted about 4,000
years ago, it is not, nor ever will be out of date or old-fashioned. Example is always more influential than precept and Rebekah little thought that her sweet courtesy to a dusty stranger by
the well would inspire other maidens to do likewise until the end of time. I she had not been humbleminded, thinking of the needs of another rather than of
the beauty of her own action the beauty of her own action, her
courtesy would have been only superficial, and would have had no .. salt
to preserve its freshness during all thes to preserve its freshness during all these
long centuries. In the second
find anothecond chapter of Exodus, we Seven shepherdesses fill the traughtesy water their flocks, and some rude , to courteous shepherds interfere and drive them away. Then Moses proves himself
to be a gentleman, keeping his courtly marners even in the wild wilderness, for he instantly stands up in defence of the
weak. He delivers them out of the hand of the shepherds, draws water for
them and helps them to them and helps them to water their
flocks. Now it is not for nothing that these and similar pictures of courtesy are given a place in God's Great Book. Courtesy is not only a matter of birth,
breeding or education; and it should ways be more than .. skin deep." Real ness-is including humility and kindChristian character. important part of dwell in that presence of our Brother So sometimes see men and women who
Wething Divine. are good and honorable, and who who bring discredit on their Christian profession by the roughness and rudeness of
their manners-especially in the home circle. They seem to think that
courtesy of word or act is out of place in the easy familiarity of the home at nosphere. They speak rudely or shortly to those they love best, though probably
any stranger will be treated with courtesy and attention
side means misht of discourtesy by out side means might result in a superficia polish, which would be little better than
the former rudeness. But real Christion courtesy springs from within, being the
direct result of hatian direct result of having the eyes open to
see Him Who is see Him Who is always with us. Those
who have learned to recognize Christ everyone will find discourtesy almost impossible. Think of the little children or who so oflen hear noisy boys and girls
to them words addressed Who so often hear rough words addressed
to them by those who love them

 the King is no light offene on the par
of a subject. It it it a great mistake
fancy that a rude tance that a rude or unkind speech to
child is a child is a matter of slight consequence.
Our Lord's warning to the gravity of the offence. witness heed," He says, "that ye despise not
one of these little ones." And He makes it very plain that any kindness or unkindness shown to a child is accepted by
Him, for He says: " Whosoever shall receive one of such children in My Name,
receiveth Me: and whoeoever receiveth Me : and whoeoever shall re-
ceive Me , receiveth not Me, but Hi ceive Me, receiveth not Me, but Him
that sent Me." If we see Christ in every one, we cannot be discourteous. Then we must always remember that a
rude, unattractive Christian will tend to drive others away from. Christ, making
them dislike the very name of Christianity. And terrible indeed is the warn-
ing against dragging down Christ's ing against dragging down Christ's lit-
tle ones. "Whoso shall cause one these littte ones which believe on Me it
stumble, it is profitable for him that great millstone should be hanged about his neck, and that he should be sunk in
the depth of the sea." Holmes says that our Lord's command regarding chil-
dren-" Forridid them not !"-must refer
also to the ". also to the "forbidding face," because
children are great readers of faces, and
and a " a face bright with looking unto, Jesus
must carry its impressions to those who must carry its impressions to those why
look upon it. We may be unconscious
Wf it but if we have been on the Mount of it. but if we have been on the Mount
with God, others will see it. God
vorks through fentures works through features, and sometimes
we are responsible for the impressions Conveyed through our faces."
If we are often on the Mount with God,
our eyes will be clear enough and our our eyes will be clear enough and ous
hearis pure enough to see Him every-
where. As Christ is in His brethren here in the world, the least discourtasy ighty regarded by those who love and
honor Him. honor Him.
Aryone. can be polite to strangers-
that flepting that flefting courtesy requires litt.ce
effort and deserves little praise. But to e brisht and pleasant and courteous all are unreasonable or complaining. cross or
disagreeable, rudd or unkind, is by no megagreable, rud" or unkind, is by no
means so easy. For true courtesy must go under the surfuce To be rude in
thought and put on a smooth, polite
manner, is to be very untrue; and it is manner, is to be very untrue, and it is
also generally very irritating to the
cther person, who instinctivic fole cther person, who instinctivsiv feels that
he is being smoothed down and caioled.
We can genorally feel each other's We can genorally ferll each other's
thoughts, and are not easily deceiver i,y
outside manners. As (hristians we are outside manners. As Christians we are
especially hound to be kind to those whus
are not particularly attructive to us.




\(\qquad\)
\(\square\)
\begin{tabular}{|c|}
\hline \multirow[t]{6}{*}{About the House} \\
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\end{tabular}

RHUBARB AND ASPARAGUS. Rhubarb Jam,-Six lbs. rhubarb, 6 lbs
ump sugar, and rind of lump sugar, and rind of 3 lemons. Pu
the rhubarb into preserving kettlo with sugar. Mince the lemon rind sugar. Mince the lemon rind, and add
keep stirring to prevent rhubarb .in burning. When sugar is dissolved, fron boil quickly for three-quarters of an Stewed Rhubarb.-Cut into pieces about 3 inches long; cover with cold
water, set on a moderate fire, and let come slowly to boiling point, but not fully, not breaking the rhubarb of careeach pint of liquid add 1 lb sugar. Roit barb. syrupy, then pour over the rhuboiled up with the rinulparb-root if may be befered.
Rhubarb Marmalade. Wash barb (but do not peel) and cut into inch lengths. Weigh, and to each pound al
low ib. sugar. Let stand over night Place in a preserving pan, bring slighly
to the boil, then boil an hour, stirring and skimming fre, fuently. Abcut 15
minutes before the boiling is finished, add for each quart the juice and rind, of
lemon, the rind being peeled off thint and cut into fine bits. Seeled off thinl
Rhubarb and Orate hot
Orange Marmalade.- Fou pounds rhubarb and four oranges, wit
the juice of all and peel of two,
sugar. sugar, 1 lemon, 2 lbs. raisins. Prepar
oranges by squeezing out the
cooking cooking the squeezing in wat the juice an
Drain, and scrape till tender Extract the juice of the lemon. \({ }^{\text {Pkin }}\)
rhubarb into a granite kettle, heat it
slowly slowly to boiling point, cook 15 minutes
then add sugar, juice, oranre peol fine), and raisins. Cook slowly unti
thick. \(\begin{gathered}\text { The raisins may be omitted it }\end{gathered}\) preferred. Rhubarb and pineapple als
makes a delicious preserve. Rhubarb Pudding, -Stew to a pulp
sweeten, and thicken with cornstan sweeten, and thicken wit
tablespoons tablespoons to the quart.
mould, and serve with
Rhubarb. rhubarh; add. grated yellow rind \(3 \frac{1}{3}\) lbs
juice of 2 leon let cook \& hour, then add 4 ths. sugar, and
and shredded almonds orange peel, and cook a second \(\frac{1}{2}\) hour
Delicious Ihnubarb crusts the following mixture - One in
chopped and peeled rhubart \(\operatorname{lup}_{\text {up }}\) sugar. 1 rolled cracker, and butter on sparapus on Tonst.-Boil until tender
 steweel sauce. cover all with Stewed Asparagus,-Break stalhs in
ich
Weneths


\section*{Your Daily Bread}
should be as pure as you can make it, but it cannot be pure unless pure ingredients be used. "Five Rosess" Flour is made by methods which render it as pure as flour can be made, and the use of it to make your bread and pastry will give you more satisfaction and purer food than if an ordinary flour were used. "Five Roses" is the standard flour for purity the world over.

Ask your grocer for a bag to-day
LAKE OF THE WOODS MILLING CO. LIMITED.

ADVERTISE IN THE ADVOCATE


MAY 2,1907
THE FARMER'S ADVOCATE.

\section*{SNIDER'S BEST EARLY POTATO \\ \(\$ 1\) per \(15 \mathrm{lbs} ., \$ 3\) per bushel, or \(\$ 8\) per barrel; c. \(\mathbf{0}\). D. Out of 116 varietios testod at O . A. C., Guelph, Snider's atands first,
boing free from rot, yielding 300 bushels per acere, and maturing in 88

 1907, for pioture of loaf measuring over six inches in width. You
must have s.rong grower, with heavy foliage to withstand the \\ YOU RUN NO RIGK. READ THE FOLLOWING: "This is to cortity that I am personally acquaintod with \(\mathrm{M}_{\mathrm{r}}\). Thos.
Bousfield, the \(\mathrm{g}^{\prime}\) ower of ©nider's Best Early Potato. I I have seen his crop of potatoos, alloo the original copies of letters received re tests will be satis factorily filled "" (Rev.) Q. Frencis Morris, Cartisle, Ont. Address all orders to. \\ (Rev.) G. Francis Morris, Cartisise, Out.}
thomas bousfield, carlisle, ont., wentworth co.
THE DUNM HOLLOW CONCBETE BLOCK MACHINE.


Address Dept. O. THE JAS. STEWART MFE. CO., Ltd., Woodstock, Ont.


\author{
Why do you oil any machine? To \(^{\text {losen }}\)
lessen friction and wear.
}


 temporary paralysis bele, propoint of injection, is being used the England for operations, in many cases in which, owing to great age or form wight be dangerouse of chloroA serious fire, which caused dam-
age to the amount age to the amount of \(3,000,000\)
francs, occurred at senal, Toulon, last week. It is suspected that the fire was the work of
incendiaries, since the Government works ares, said to be a hotbed of
revolutionary feeling.

Prof Ellis, of the School of Prac-
tical Science, Toronto, declares that ashes cannot burn, and that the most the mixture of coal, ashes, salt and
oxalic acid, "discovered ", by the Altoona cobbler, can do, is to con-
serve the heat throw, serve the heat thrown off by the
coal. He advises caution in using it, in view of the corroding action
the salt and acid may have on the
iron of stoves and furnaces. And so another bright dream has been
dispelled.

NEW P!BLICATION RATES. Mr. W. H. Smith, Secretary of the Ptated that there was nothing in the
new agreement, new agreement to prevent mail mat-
ter from either country being across the line by freight or express and then being mailed at the usual auth of one cent per pound, if the
authorities permitted. Thus, Ameri-
can can publishers might send over con-
signments to theirt Canadia who could then distribute them to
their subscribers at the their subscribers at the domestic
rate, and Canadians do the same in rate, and Canadians do the same in
the United States. It now appears however, that the American post-
office authorities will not permit this,
and since C'anada is almost certain
though publishers on both sides of
the linie will have to pay the iull the line will have to pay the iull
sates , imposed by the new regulations, which come into iorce on May

THE COLONIAL CONFERENCE Judging by the attention which it has drawn upon itself, the Colonial
Conference in London has surely been Conference in London has surely been
"a sight to make surrounding na"a sight to make surrounding na-
tions stare" - Botha and Jameson, who fought against each other in South Africa; Botha in the forefront,
of the Boer war against Great Britof the Boer war against Great Brit-
ain, yet to-day cheered at every ain, yet to-day. cheered at evers-
point of his progress through London; Sir Wilfrid Laurier, French of
blood, yet foremost among British blood, yet foremost among British
subjects;
representatives from the subjects; representatives from the
four corners of the earth, and all united in the interests of the great
British Empine. The outcome of the British Empine. The outcome of the
Conference has been embodied in sevConference has been embodied in sev
eral resolutions, the chief of which are as follows: (1) That an "Imperial Conference "" is to be held
every four years, "at which quesevery four years, "at which ques-
tions of common interest may be discussed and considered; as between
His Majesty's Government and the Governments of the self-governing do-
minions beyond the seas." The minions beyond the seas." The
Prime Minister of the United Kingdom will be ex-officio President, and the Prime Ministers of the self-governing dominions, also the Secretary of State for the Colonies, will be ex
officio members of the Conference Such other Ministers as the respective Governments may appoint will also be members of the Conference.
(2) That a permanent Secretariat shall be appointed for the interim between the conferences, and charged, under the direction of the Secretary
of State for the Colonies, with the of State for the Colonies, with the
duty of obtaining information for the use of the Conference, of attending to its resolutions, and of conducting correspondence on mutters re
lating to its affairs. (3) That a lating to its affairs. (3) That a for which no money contributions,
will be usked from the Con will be usked from the Colonies, but upon which the self-governing de-
pendencies may be represented if they so choose; this staff 'to study military science in all its branches, and col-
lect and disseminate to the various lect and disseminate to the various
Governments military information, and to undertake the preparation of schemes of defence on a common prin-
ciple." .. . The question of Imperial ciple." .... The question of Imperial
preference was also discussed Pre mier Deakin being especially desirous that schemes toward it be brought to a conclusion. It was notable that, in regard to questions of de-
fence, Sir Wilfrid Laurier remained conspicuously silent. The British press has been almost
at one in eulogizing the establish at one in eulogizing the establish-
ment of the Imperial Conference as a great step towards Imperial Federation, the Morning Post alone looking upon the movement as an effort Before returning Wilfore returning to Canada, Sir Switzerland and Italy, and, in espeCharente, whence in 1660 his Lachendis, in tors emigrated to Canada. There has been some talk of his attempt-
ing, while in Paris, to lay the foll ing, while in Paris, to lay the foun-
dation of a treaty of commerce hetween France and Canada.

\section*{RECIPES.} Wheat Griddle Cakes.-To 1 large cup
of cooked wheat porridge add 1 pint
milk and milk and 1 beaten egg. Sirt together sugar, \(\frac{1}{2}\) teaspoon sault, 2 teaspoons griddle. Ndd, and bake on a
 cup hutter, 1 cup milk, 3 eggs, 1 cup
raisinis, 3 cups Five Roses flour, 2 tea-
spoons spoons baking powder. Flavor with pans.
urious one. Whensistency? asked the "Well," responded the wise one, "it
is that spirit which moves a whose sleeves stop at the elbow to woman
her hushand heold her husband because he hasn't cuffis on."

\section*{\(\pi\)}

NEVER SAW BETTER SKIMMING

\section*{Magnet Cream Separator}


This is the verdict of the expert, en
gaged by the ( rescent Creamery Co . The Petrie MPg. Of, Lin ived. Apr. 20, 1907, Gentlemen:-I have thio day made two
teto trion the MAGNET Cream Separator
No. 1.



 Ifnd the MAGNET as close a skimmer as
anys phastor I have lested. Aiso find it
easy to turn Yours traly FiED LUTLEX,
Milk and Cream Teeter for the Cresce Milk and Cream Tester for the
(restmery Co., Wionipeg, Man.
The test shows only about 3 ounces
butter fat left in a ton of milk. This butter fat left in a ton of milk. This
shows the wonder ful perfecticn attained hows the wonderf \(f\).
by the \(M A G N E T\).
Nospecial machine was built
for this test. It was made with the
regular and only machine that we make. Every du ver of a © AG-
lo ac good work as the one tested at the Creamery.
Note the remarks about saey turning \(\mathbf{p}\)
Note the remarks about ©aey
Close skimming and Easy I urning.
Add to these great points the square pear, double support to the bowl,
These five points are only found in the MAGNET, which places it Writa itsol.

THE PETRIE MFG. CO., LIMITED, Mamilton, Ont.; Winnipeg, Wan.; St. John, N. B.; Calgary, Alta. Western distributing points
Regina, Baok.; Yancouver, B. C.; Yictorfa, B. C.

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\section*{Potato Growers}

HTON

\section*{The Doctor Said Nervous Prostration}

But After Weeks of Effort He Could Not Help Me, and I Was
 teer in theo neen nope under erers in the cure described. Mrs. Alf. Stevens, Burgessville, Oxford
County, Ont., writes : Two years ago last November I was
run down, and did not know what was
wrong. I could not sleep or eat, and wrong. I could not sleep or eat, and
at last my nervous system gave way en-
tircly, and I had to go to bed. The tircly, and I had to go to bed. The
doctor told me I had nervous prostra-
tion, and, though he doctored me for some weeks, I did not get any better.
" T then began the use of Dr. Chase's
Nerve Food, and by the time I Nerve Food, and by the time I had used
six hoxes I was completely cured. Ieople
remarked how well I looked, and I said Nes, and I feel well, that is the best
of it, and Dr. Chase's Nerve Food did It is in extrene cases like this one that
Dr. Chase's Nerve Food shows its ex-
traordinary traordinary power of building up the
nervous system and overcoming disease; 50 cents a box, at all dealers, or Ed-
nanson, Bates \& Co., Toronto.

Supe flouss Hair THE MORE AMBITIOUS AN
ENERGETIC IT BECOMES.
 There is no other
treatment that will permanently rem ov
this disfiguring blemthis disfiguring blem-
ieh but Electrolysis
Don't tamper ( out



Princess Complexion Purlfier


 an nose, sore hands and foet, and undevel.
ope 1 fi , ure. Send stamp for booklet \(F\).
Graham Dermatological Inslitute, Dept. F., 502 Ohuroh St., Toronto.

Water! Water! LISTOWEL drillingmaghineo dilling facturers of well drolling tools The most nutfit in Canada io-day
Cttalogue and Cttalogue and full par EL, - ONTARIO. \(\$ 12\) WOMAN'S SUITS, \(\$ 5\)
 Samp FOUL IN FEET
\(\qquad\)

\section*{Telephones}

If you have no telephone line in your locality, now is the time to build one. It's not a difficult proposition. Get about ten men together with a small amount of capital, organize a Telephone Company and build a line.

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\section*{Nothern Electric \& Mifg, Co, \\ Winnipeg, (Limited)}


QUESTIONS AND ANSWERS
Miscellaneous.
DIFFICULT BREATHING IN SOW
Have a young sow (a fall pig), which
Has dificulty in hreathing; every third
or four breath will be exhat
gasp. There serms to be a thickening
\(\left\lvert\, \begin{aligned} & \text { of the glands of the throat. She has } \\ & \text { oeen kept with a mate tha a warm, con- }\end{aligned}\right.\)
s fined pen Suring winter, with little exer-
d cise. She will not eat, but seems
dright and
ar to get bet-
to farrow the
\begin{tabular}{c|c} 
She is due to farrow the \\
What do you consider the & p \\
m \\
pl
\end{tabular}
menkre, but symptoms given are very
\(\qquad\)
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\footnotetext{
We tender surfaces appear,
a
}





B UPP ORPINGTON eggs ior hatchiog from

\(\mathrm{B}^{\mathrm{LA}} \mathrm{LAK}\) Minoreses; Whit, Brown. Black. Ruff White Rooks: While Wyandoteo, ;ilirver Buan oett ing. R. La Larte. Drambo
\(\mathrm{B}^{\mathrm{ARRED}}\) Rock eggs. from a pen of the "Na,











\(\mathbf{E}^{\text {Gas }}\) (Dustor



E




TNGLENOOK Youltry faim offers egess from




 RLiABLE PoULTRY YARD- The ire






Miller. Vallantyno. Ont




\section*{The Top Prices Paid for Wool}

Now ls the Time to ship Butter, Egge \& Poultry. pueen city produce company, ltd. 100 Front St. E., товомто.
morgan's roup cure























Wantrd-pe
\(W^{A N T R D-P e r s o n s ~ t o ~ g r o w ~ m u s h r o o m s ~ f o r ~}\)
 Co. Montre
W \({ }^{\text {ANTED-Farmere and otherf who defire }}\)






320 A Aks Ane wheat farm: 190 aeres


misrepresented heifer.

ENGLAND'S GLORY AND CARDINAI
> wat heif tor was pure-lred. shor chorn and

.nish perigrie. What will A do in this
 ".inunker in
preparing a lawn Our home and buildings are all naw.
and the front-yanrd for the lawn is
ond-timothy Sod-timothy and clover on high and dry
round. Would you advise to cultur the ground this season to put it
proper condition for lawn wear? The ground is not very rich, aill Ans.- It would certainly be advisab,
o plow up and thoroughly cultivat.and level ground for lawn, which is now
seefled with timothy and clover. It
\(\qquad\)
\(\qquad\) that particular It might be possinle
hy repeated cultivation to get it in con-
dition for serding in time to get a good
catch of lawn rrase this fall

\section*{WATERCOURSES}

GOSSIP.



it a proper oulteo divert a watercourse
water from saned and
wame will not he iniuriowe Ans,-1 and 2. These aUBe matriters that
all for the attention of the townshin



HOTBED-BOOKS ON GARDEN

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HAMILTON \& HAWTHORNE, SImcoe, Ont. mandee soth.-west of Toronto on the G. T. B.

Clydesdales, Percherons and Hackneys



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GRAHAM BROS.
"Gaimbrogie," CLAREMONT,

HACKMEYS and CLYDESDALES
Rstablished 30 years, and winners at all large shown
in Canada and United States. Best of stook alway on hand for sale. New importation of Royal winnens just arrived.
40 WAVERLY HACKNEYS 40

-


ROBERT BEITH,
Bowmanville P. O. and Station
W. C. KIDD, LISTOWEL, ONT. Importer of Clydesdales, \&hlres, Peroherons, Belglan
Hackney, Standard-breds and Thoroughbreds of highestpossible quality and richest breeding. Have old as many stallions the last year as
any man in t-e business, with complete satistaction in every case. I have always al 1 trie number
 -
8MITH \& RICHARDSON, COLUMBUS, ONT

 Lond-dietanoe 'Phone Myrtie Btation, C. P. R,

 Wm. Colquhoun, Miltchell, Ont.
Phone to residence.
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CLYDESDALES and HACKNEYS


TRAHAM a RENFREW, BEDFORD PARK, ONT,


Unreserved Sale of Rawlinson Bros, Hackneys.




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Our catalogne will help you to ohoose from the ble-
Moet and fullest assortment of vehicles and hem

no. 10 Priano Boz Bution
International Carriage Co., BRIGHTON, ONTARIO.

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\section*{ape Carriages}

It's a mighty comfortable feeling to know
that the carriage you buy has a so yors tation behind it. you buy has a 50 years repuThere's no likelihood of there being any
cause for complaint against a cause for complaint against a Tudhope Carriage.
But if there should be , ou have the guarantec of
firm that has been in business, right here in Canade firm that has been in business, have the guarante of an
right here in Canada,
since 1855.
TUDHOPE No. TUDHOPE NO. 3

 the tudiope carriage co.. lld. ormua, ome





Whan Writing Please Mention Adynarate

QUESTIONS AND ANSWERS. Veterinary.
RHEUMATISM. Horse has rheumatism in breast and
fore legs. What is best to do? Ans -Keep dry and comitorta F. H.
 Satho the anocted parts 3 or 4 times
daily with hot water, and atter

 WARTS. Fnclosed you will find a wart that I
removed froun the removed from the eyelid of colt. There
are two or three more not quite so large.
What What will cure them? I took three
similar ones out a year ago. C. E. Ans.-The practice you are following,
viz., removing the warts by dissection,
is the proper is the proper practice. They dissection, be re-
moved by applying a caustic, as butcer of antimopy, daily, baut it it is a slow
process. Some animals are predisposed
prone to enithelial growths like this, and the
predisposition cannot be removed. All
that can be done is to treat the grow ths as they appear.
FOREIGN MATTER IN NOSTRILS Last Saturday a yearling heifer was
not well. On Sunday morning she
breanthed very heovily Say beger breathed very heavily. She began to cough,
and the enclosed substance was expelled
from her nostril. What
 and escaped through the nostrils. If
no more growths of a similar nature
are present, your heifer will have no
furtner BRAIN TROUBLE-VETERINARY 1. Three-weeks-old calf, nursing cow,
stifiened and fell over. Got its head
back as for as stiffened and fell over. Got its head
back as far as possille.
2. What is the very best veterinary
work than can be cot. Work than can be got? W. A. B.
Ans. -1. This may not occur again. It
was due to Was due to some pressure ugain. It
brain, which may have been simply the
gestion gestion of the blood vessels. If If con-
due to a is
attacks arowth upon the brain, the attacks will continue, and eventually will
kill him. Nothing can be done.
h. Probably the best are Williams, in
two volumes, viz. .. The Principles.


Champion Caríiage Stallion Sure and kind. Ressons for
E. W. BROOKS, Glen Ross, Ontario READ THIS! We are offering a


\section*{IF WOMEN ONLY KNEW}

Thoumande of women suffor untold miser ion every day with aching beok that really wasn't made to ache. Under ordinary conditions in ought to be strong and read to help her bear the burdens of life. It is hard to do housowork with an ach. at work. Hours of misory at leisure o Backache oomes from siolk tidne caune. what a lot of troublo sicl kidnoys canno in ho world
But they oan't help it. If more works bo
put on them than thoy can atand it'm not put on them than they ond stand it'n nef
to bo wondered that they got out of ordos.
Beolkeho in nimply their cry for holp

\section*{DOAN'S \\ KIDNEY PILLS}

Whll help jou. They'ro helping niol, oven making them strong, healthy and vigorico Mrs. P. Ryan, Douglas, Ont, writer: "Fous
orer five months I was troubled with lame back and was unable to move withoni
holp. I triod all kinds of plastere and
liniment linimenth but they were no use. At lant 1
heard toll of Doan's Kidnoy Pill
 my beok was as strong and woll as evor." Prioo 50 conts por box or throe boxes feen
f1.25, all dealerry or The Doan Kidney FIII
O., O., Torento, O al




Remarkablo Invention FOR THE

\section*{CUTTURE OF HARR．}

THE EVAANS VACUUM CAP is a practical invention constructed on
scientific and hygiienic principles，by the simple me ans of which a free
and normal circulation is and normal circulation is restored throughoot the paalp．The minute which can only be derived from the blood，to be carried to the hair roots，the
effeots of which are effeots of which are quickly seen in a healthy，vigorous growth of hair．
There is no rubbing，and as no druge or chemicals of whatsoover kind are
employed，there is nothing to cause irritation the Cap three or four minutes daily

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 Mr．W．Moore．reforring to the invention，says that the principle upon
yndich the MYane
indisputable． An illustrated and descriptive book of the Fivans Vacuum Cap will be sent，post THE SEGRETARY，EVANS VACUUM GAP CO．，LTD．， When Writing Advertisers Please Mention tbis Paper

QUESTIONS AND ANSWERS． RAILWAY FREIGHT CHARGES． I shipped a car of sixteen head of
registered Shorthorns from T－Th to
W－Railway received W－
them at．The reduced fare（one－half）for
registeres them at the reduced fare（one－half）for
registered stock，and agreed to deliver
them at W－I paid the freight them at W－＿I paid the freight
to W－Railway
W－at to W－Wine in \(L\) at the \(\begin{aligned} & \text { The connect－} \\ & \text { freight office } \\ & \text { ing railway refused to move this car }\end{aligned}\) over their line until I I paid the balance
of the full car rate to them over both
ofnes This，after I had paid the freight
he Ches．asked for the whole dis－ tance．The＿R．took the shipping
vouchers for the sixteen head．Now，can rececover
rented
Ontario

FEEDING VALUE OF MOLASSES Kindly let me know the value of mo－ lasses in feeding growing calves，or in
fitting cattle for the shows．In what proportions would you mix molasses，
corn，oats，bran and oil cake，or is there anything beller old SUBSCRIBER． Ans．－Molasses is a purely fattening food，but it tends to improve the coat
and to give the animal a general thrifty and to give the animal a general thrifty
appearance．When animals learn to eat it，they generally become very fond of it，
and will eat more of cther food in con－ sequence． \(\begin{aligned} & \text { Unless the growing calves } \\ & \text { are being fitted for show，I Io not think }\end{aligned}\)
and it would pay to feed molasses．Plenty
of whole milk，combined with a ration made up of about equal parts by weight
of corn，oats and bran；with a very small proportion of oil cake added，wryl
be found satisfactory for these growing be found satisfactory for these growing
calves．As to the oil cake，a very small
amount should be used at first，say a amount handful at a feed twice a day．A
small halves become accustomed to to th
the calves
quantity may be incressed but I Io do quantity may be increased，but I do not
think it would be wise to exceed one
two pounds of oil cake per day vith \(\left\lvert\, \begin{aligned} & \text { two pounds of oil cake per day vith } \\ & \text { calves under } \\ & \text { younger } \\ & \text { youn months } \\ & \text { old }\end{aligned}\right.\) calves under twelve months old－th
younger the calves，the smaller the
amount．The same meal ration wil
answer very well for cattle that are be
anser ing fitted for show，but the proportion o
oil cake should be increased，though oil cake should be increased，though I
doubt the wisdom of feeding more than
from three to four pounds of oil cake from three to four pounds of oil cake
per day to an animal．As to the
molasses，it should be used somewhat molasses，it should be used somewhat
sparingly，as it is a somewhat ex－
pensive food，but I do not think a quart of molasses a day would do an animal
any harm，provided it is thought ad－ any harm，provided it is thought ad
visable to feed so much as this．Fo
reasons of economy，however，I think
would be better to feed a smaller pro would be better to feed a smaller pro－
portion，and possibly just a a good re－
sults would be obtained．G．E．DAY．

\section*{TRADE TOPI}

AN improved GASOLINE ENGINE． giose who consider that gasoline en－
gines are the ideal farm power，as well as many who have been dubious con－
cerning them，are sure to be interested in the＂New－Way＂model．A member of
＂The Farmer＇s Advocate＂staff had the privilege recently of inspecting one o
this make running in a shop in London
Ont Ont．，where a \({ }^{\text {O }} \begin{aligned} & \text { local agency is being } \\ & \text { established by } \\ & \text { general agent，E．} \mathbf{S}\end{aligned}\) Cooper，and was impressed with its com－
pactness，its lightness combined with sactenst，its simplicity，and evident
smoothness of running，and its air－cooling
smone device instead of the accustomed water
tank．This is claimed to be the first
engine to cool its cylinder by means of
\(\qquad\)
\(\qquad\)
\(\qquad\)
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\(\qquad\)
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\(\qquad\)


Put Good Grazers on Your Grass ！


Cows，heifers and calves For Bale．
R．J．PENHALL，Nober，Ont． POREET VIEW FARM MERIPORDS
 WEREFRIS－We are now oflerine is tow

 \(\frac{\text { Falmplew Herd Holstalns }}{\text { Find }}\) Home of Pontiec Ras Apple，the cow thet sold â
few days ago for \(\$ 8,000\) ．Highest price ever paid



E．H．DOLLAR，Heuvelton，st．Lawrence County．N．Y．
Saskatchewan
Wheat land．Easy terms．
\(\$ 10.00\) to \(\$ 95.00\) per acrer．
Money making．City proper
The＇Minton Maneell Coı sASKATOON．
Messrs．R．Reid \＆Co．，Hintonburg for sale two grand six－year－old imported Clydesdale stallions，good foal－getters，
having travelled on same route for three having travelled on same route for three
years，and taken well with the years，and taken well with the public；
also a fine Hackney stallion，five yoar also a ine Hackney stallion，five years
old．These horses have all been winners
vherever shown＂

\section*{35 Head Imp. Scotch Shorthorns \\ BY AUCTION \\ At his farm, "Hollymount," \(3 \frac{1}{2}\) miles north of Mitcóhell, \\ Ontario, \\ Thursday, May 9th '07 \\ }

Mr. W. J. Thompson will sell his entiee herd of 35 head of Sootch Shorthorn cattle, inoluding the stock bull, Imp. Rustio Chief,
a roan 6 -year-old son of Clan Alpine. Sixteen of the cows are imported,
and a roan 6-year-old son of Clan Alpine. Sixteen of the cows are imported,
the balance sons and daughters of theire, all got by Rustic Chief. Nearly
all the cows have calves at foot, the balance heavy in calf All all the cows have calves at foot, the balance heavy in calf. All a
splendid condition, of modern type and richest breeding. See Gossip.

TERMS-8ix months' opedit on bankable paper, E ner cent. per annum off for cash.

Conveyances will meet all morning trains at Mitchell.
CAPT. T. E. robson
JAMES JONES
W. J. THOMPSON, Prop., Mitchell, Ont.

Glenoro Shorthorns and Lincolis






\section*{DOMINION}

SHORTHORN HERDBOOK WANTED.


ec.-Treas., Freeman, Ont.
Ploasant Valley Shorthorns


GEO. AMOS \& 8 ON, Moffiat Sta. \& P.O., C.P. John Gardhouse \& Sons
Ohn Gardhouse \& Sons \(\underset{\text { intedorters an }}{\text { Im }}\)


Spring Valley Shorthorns Bulls in service \(\quad\) are: \(\quad\) Eapton
Chancellor (imp. \()=40359=(78286)\), Chancellor (imp.) \(=\) (imp.) \(=642\)
Clipper Chief
Stook for sale at all times. KVLE BROS..
Shorthorns for sale-Five ohoioe balls, all \begin{tabular}{l} 
from imp. damsi elio fomales of all ages \\
Bootland'e \\
\hline
\end{tabular} Af.EX. BURNS. Rockwood P.O. and E.TR Sta
Adrertiseln The
Fapmer's Advocate
and Get Good Resulte


Queenston Heights Shorthorns

Hudson Usther, Queenston. Ontario. Shorthorns and Clydesdales
 JOHN MILLER, Brougham, Ont

SHORTMRRNS YORKSHIRES and S.
C WHITE LFGHORNS. - I Ind



\section*{Belmar Parc Shorthorns}

\begin{abstract}
WE think we have as great a lot of young show animals as has ever been on one farm in Canado Our herd is the individuals are choice and of the richest Scotch breeding, and our prices are moderate. 15 young bulls. 25 oheifers under three years. A splendid group of breeding and show matrons. Mostly in calf to the champion Marigold Sailor \(=53258=\) and the prizewinning Nonpareil Archer (imp.) \(=45202=\). Pembroke is on the main line of the C. P. R. rrive Pembroke 1205 ivision of the G. T. R. You can leave Toronto 11 a. m , We prefer you to see the cattle, but if you can't spare the time we take special pride in filling mail orders satisfactorily.
John Douglas, Manager.
PETER WHITE, Pembroke, Ont
\end{abstract}
 Hffer at reduced prices two highy-bred red
HONN BUILI CALYEE
 They are the last pair they have to offer, and are nct the poorast of the great dozen they sold Elora 8tation, G.T.R. \& C.P.R. 'Phone 42K. SALEM, ONTARIO.
AT "MAPLE SHADE"
Our young bulls are the best that our herd has ever produced. We can
farnish Cruickshank bulls of high quality to head the best herds, and some that should produce the best prime steers.
catalogue. Send for
JOHN DRYDEN \& BON,
Brooklln, Ont

Valley Home Shorthorns and Berkshires


 young pigg of both sexes.
for perboall inspection.
s. J. PEAREON, SON \&tations: MPANY, Meado
\(\xrightarrow{\text { Me.R. }}\)
adowyale, ontario


Speclal Offering of Scotch SHORTHORN BULLS
Q just past two years old: 15 just over one year old : 7 just
nder one year old. The bestlot we ever had to offer in individuality and breeding,
nd prices are right. Catalogue. John Clancy H. CARGILL \& SON, Manager. Cargill, Ónt

SIX IMPORTED SHORTHORN BULLS

 mobert miller, STOUFFVILLE, ONTARIO

\section*{Pure Scotch Shorthorns}

19 Bulls. PRESENT OFFERING. 75 Cows and Helfere
 Mydegdale mare four years old, due to foal May lst. We will book orders for-soung Yorkshire
or May delivery. ourlington Wct W. G. Pettit © Sons, Fresman, Ont

WESTSIDE SHORTHORN HERD AND BORDER LEICESTER FLOCK

O lnvile all interested to inspect the oattle and fheep on this farm. The shorthorns are lon , oleotions for sale. Visitors from the Statea and Canada will be cordially welcomed A. Camemon Sons, Westside Farm, Breohin, Sootland

\section*{FARM} FOR SALE
- 1d barns: large orchard. Price, \(\$ 10,500 . \begin{aligned} & \text { new windmill that drive water to both house } \\ & \text { For } \\ & \text { T. A. Cox }\end{aligned}\)

\footnotetext{
THE WILKINSON PLOUGH OO., LImitod, TOFOnto, Oanada varí Mantinmen, -Please send me (free) the book. "Pratioal Experience with Barn same
}


Maple Lodge Stock Farm 1854-1907.

Am now offering a grand lot of oung Shorthorn Bulls, several
good heifer
A. W. Smith, maple lodge, ont.

Six Red Shorthorn Bulls



J. T. GiBson, Denfiold, Ont. GRERNGILL HERD of high-olees
SHORTHORNE

 R. MITOHELL \(\AA\) soms.

Welcon P.o., Ontis Burlimgton Juno. Etan. T. DOUGLAS \& SONS strathroy. ONT.


KENWOOD STOCK EAR SHORTHORNS.


 itise jube off hion iom
H inmue bros.. Hibenate. ont. Ment co
Brown Lee Shorthorns -Troenan bonoring bill


Chicago Livestock of the country, ingiry says the Chicago Live-stock World, inquiry into th develops the gradually crawling up. Farm land within a radius of 40 miles of Chicago hat could have been bought at \(\$ 60\) an how for less than \(\$ 100\). Great swarm of emigrants have gone to the Dakctas, and other parts of the West, and value The farmer who pays \(\$ 150\) to \(\$ 200\) cre for land must understand the sam retty well to make a good interest on
is investment.


FOUNDED 1866
QUESTIONS AND ANSWERS. Miscellaneous.
TWITCH GRASS
What is the best means to get \(t\) witch
grass out of your land, by summer \(f\) tur grass out of your land, by summer-fal.
lowing or by hoe crop ?
NEW SUBSCRIBER. Ans.-Summer-fallowing is a more
thorough method than cultivating a to crop, though the latter is effective thoe
properly looked after. weeds in the Farm Department of this
FENCE WITHOUT POSTS. Having got a lot of cedar rails, but
no posts, would like to be given a good
plan of building no posts, would like to be given a good
plan of building a straight rail fence with same without posts.
RUSTY FARMER. Ans.-For a fence five feet high make
stakes six feet long, sharpened at ono stakes six feet long, sharpened at one
end; drive upright into ground in pairs
at end of rails where they overlap ach Other. Brace at same place with two
other stakes about soven feet long, one other stakes about soven Reet long, one
on each side, and wire altogether secure-
ly at ton ly at top. II fence is intended only for
ly
cattle and horses, the lower rail could be catie and horses, the lower rail could be
raised above ground by a wire lapped
around the two uprights.

IMPROVING DRAINAGE.
A ditch was dug draining several farms,
put through by the township eouncil, put through by the township eouncil,
under the Ontario Drainage Act, and the
owners of the farms benefited were assessed according to the advantage were
each. The ditch gradually fills from
ent each. The ditch gradually fills from
year to year. Can one person petition
the council to have it cleaned, or does it require more to sign the petition?
requan
Should it require to be deepened, what
procedure is necestary Should it require to be deepened, what
procedure is necessary to have it done?
Ontario. Ans.-The Municipal Drainage Act and
the Consolidated Municipal Act, 1903, and amending acts, contain elaborate
provisions for these matters. It is probprovisions for these matters. It is prob-
able that the council of the municipality
in question has passed a by-law pursuant to Sec. 554 of the Con. Municipal
Act, 1903, dealing with same. Act, 1903, dealing with same. This by-
law would have to be looked at, as well law would have to be looked at, as well
as the statutes mentioned, in order to
determine determine just how the matters should be
attended to. But any one of the persons interested could, hy letter, bering
same to the attention of the council, and same to the attention of the council, and
it would be advisable for him to com-
mence in this wav. THUMPS.
A very fine Yorkshire sow, in March,
1906, had 16 pigs, and did well with 1906, had 16 pigs, and did well with
thirteen of them, until they were three
weeks old when the weeks old, when three of them died.
Symptoms were breathing heavy and
pining away till denth pining away were breathing heavy and
1906, she had another In September.
They atiter of eleven They she had another litter of eleven.
They all did well and averaged 175 lbs
at about five months ald. Now she
has ancther
 and two of them have diid weeks old,
same as the onesk last March. I wened
thesen these two. One of them seemed
have an enlarged heart with have an enlarged heart, with a sort of
roughness on the outside. The other
one's heart seemed one's heart seemed to be of a a normal
size, but was inflamed on one side. Sow
is fed on chop made of wheat. and oats, mixed with of wheat, barley
rator milk. The sow hasts been sepa-
a warmi a warm, small pen with the March lit.
ters. but she was allowed to run in the
feidds with the Ans.-It was no doubt a case of
thumps, a trouble which attacks sucking pigs, and is caused by lack of exercise
and a liberal supply of the dam's milk. Fat accumulates about the heart an
lungs, interfering with the action o
these organs. The fattest pig in the litter is usually the first to go. The
breathing is quick, and apparently div,
cult, and the jerking movement of cult, and the jerking movement of
flanks gives rise to the name thumps.
well-developed tanks gives rise to the name thumps. A
well-developed case is considered in-
curable, but exercise is a reliable procurable, but exercise is a reliable pre
ventive. Get the pigs out for a time
each each day. In winter, if nothing better
can be done, a few minutes, several
times a doy, times a day, may be spent in the pen
with a whip. Note that the September with a whip. Note that the September
litter. Which was allowed to run in the
from 10 months to two years old. several Toronto Pricen very moderame. odis


 SUNNYSIDE STOCK FARM
 For sale: A namber of young
SHORTHORM B ULL
 JAMES GIBB, Brooksdale, Ont.
ATHELSTANE SHORTHORNE! Pure Bootch Rose wood. Bosalind and Countess
straingo Ten ona and two year old heifere of
the above strains, the get of the vilite



Wm. Grainger \& Son


Hawthorn herd of doep-mill-
ing Shorthorne. Aberdeen
 Londosbore statlon

SHORTHORN FEMALES

 Ramedens.
HUGH THOMson, st. Mary's.
horth Blima PawHerd headed by the choicely-lred Berkshires Flast (imp.). 50016 Stock of all akes for salce
JOHN M. BeOKTON, Glenoe G.T.R., C.P.R. \& Wahash Farm uljoins
town limith. SHORTHORNS \& OXFORD DOWNS


 Eatace phoo
8 \&HORTHORN BULLE FOR SALE





FOIR NALIE:



 RECORD OF MERIT HOLSTIEINS
 Woodstionk D. Dtation, Oxford Contre P.O. Ridgedale Farm Holsteins \({ }^{- \text {Present offer }}\)

 HILTON sTook FARM - Holstoims:
 Rlonwood Stock Farm-Holstolns and

 Evergreen Farm Dokol, which we are offering Prinoe Panlin
 V. C. POWTVTT M BON. Burgesswille One.

Greenwood Holsteins and Yorkshire

 Grove Hill Halstein Hend

lstelns a R. FONEV, Brloklo
ob
at to lith of young


\section*{ANNANDALE} FINE STOCK FARM
TILLSONBURG, ONT.
Premier sire, Prince Posch Calamity,
whose dam and sire's dam average whose dam and sire's dam average
in official test 86 lbs. milk in 1 day
and 26 lbs, hutter in 7 dave. and 26 lbs . butter in 7 days.
No stock for sale at present.
GEO. RICE, Tillsonburg, Ont.
 Now is the time 1 order for young place yoor
hoice damoung form
 Fairview Stock Farm. \(\begin{gathered}\text { rite fors. } \\ \text { NRED } \\ \text { Harrietsville, ont }\end{gathered}\)
" IHE MAPLES" HOLSTEIN HERD
 Wallbum Rivers, Folden's, Ont. "GlLENARCHY" HOLSTIEINE
 Sit a. MACINTYRI, Renfreve P.O. and Bid
 ROBT. TUFTS \& BON, Tweed, ont
er. Which was allowed to run in the
is, was from the affection. It
nem, or never, attacks pigs on pas-

\section*{KENT OR ROMNEY MARSH}

\section*{Annual Ram Sale.}

Three Challenge Cups and other valuable cash prizes offered.
Che annual show and sale of registered Kent or Romney Marsh rams, consisting
FRIDAY, 27 SEPT., 1907, AT ASHFORD, KENT, ENGLAND.

Catalogues and full information from

\section*{W. W. CHAPMAN,}

Secretary Kent or Romney Marsh Sheep Breeders' Association, Mowbray House, Norfolk St., Strand, London, England, W. C.

\section*{BRAMPTON JERSEYS}

\section*{Canada's Premier Herd}

Strengthened regularly by importations from United
States, England and the Island of Jersey. Wa
We have animals of all ages and both sexes for
sale, and the largest herd in Canada to choose from.
Write for prices and particulara
Long-distance 'phone at farm.
B. H. BULL \& SON, Brampton, Ont.


Burnside Ayrshires Imported and Canadlan-lomed. Primwinaass at all the lending nhows. I hold the avard of nearit givea of largest number of priow winning Ayrhires at mid lypolition. HOWICK, QUE., P.O. AND STATION.
A. R. NESS, JR,

MAPLE GLEN HOLSTEIN HERD Springhill Ayrshires.

 diow has just
Prices right,
G. A. AllRoY, Glom Buell, Ont.

MAPLE HILL HOLSTEIN-FRIESIANS



Lyndale Holsteins
 BROWN BROS. LYN, ONTARIO. Imperial Holsteins W. H. SImmons, New Durham P. 0., Ont.

DON JERSEY HERD


D. DUNCAN, Don, Ont. Duncan Sta, on Camadian Nor thern Railroad.
near Toronto. Pine Ridge Jepseys For sale \(\underset{\text { very heap }}{\text { Pit }}\)



\section*{QUESTIONS AND ANSWERS.}

Miscellaneous. CHAMPION \(\underset{\text { STAMP. }}{\text { LION - WESTFIELD }}\) 1. Can you tell me if a horse named
Champion Lion was registered, and who owned and imported him?
2. Did a horse called Westfield Stamp
take any prize or hen take any prize or honors at the World's
Fair, Chicago, and what, please? Fair, Chicago, and what, please?
ONE INTERESTED. Ans. -1. Ile is not registered.
2. He stood sixth in his class as
three year-old. and was commended BLOODY MILK Cow freshenod April 7th is giving milk
with blood in it. Had been getting with blood in it. Had been getting
straw all winter up to two weeks before
calving, then oat chop, hay, bran slop calving, then oat chop, hay, bran slop
and stock food.
good health. Ans.-Bloody milk is due to the rup-
ture of some of the small blood vessels
in the udder. This is commonly induced by hereditary weakness in the blood ves-
sels, and in such cases recurrence sels, and in such cases recurrence of the
trouble cannot be prevented. However,
the condition the condition is liable to occur in any
cow, and may be brought on by acci-
dental injury to the udder, or (in sum-
mer) by chasing with mer) by chasing with dogs. Bathe the
udder well and often with cold water, and give one ounce tincture of iron in a
pint of cold-but not ice-cold-water twice daily until blood ceases to appear
in the milk. ACUTE INDIGESTION IN PIGS. litter of a brood sow which had a fine
two wheaks are now over two weeks old and doing fine, up to a
few days ago, when one took sick and was dead in an hour. The next day an-
other went the same way. What is the cause ? Those that have died have a
number of sharp-pointed teeth, of a dark color. Would you advise taking the
out? The sow has been fed on peas Ans.-We should judge you have bee feeding the sow too liberally with strong
food, and both sow and pigs have had
too food, and both sow and pigs have had
too ilttle exercise. The thouble is prob-
ably due to acute indigestion and pressure of the stomach upon the heart.
Lighter feeding and more exercise is the
best preventive best preventive, and a purgative o
linseed oil the best treatment.
black teeth black teeth are an indication and effec
of indigestion. It is well to breat of indigestion. It is well to break o
the sharp points with a pair of smal the sharp
pincers.

PIGS DYING.
Pigs from four to seven weeks old
while still with the sow, die suddenly Apparently they are well in every respeci
until the first until the first symptoms appear; then
their hind legs fail, they grit their teeth their hind legs fail, they grit their teeth
gasp for breath, become cold in gasp for breath, become cold bin ears
cold gradually extends over belly, belly
swells some, all strength goes, and they swells some, all strength goes, and they
are dead in about three hours. These pigs have good quarters, being in pen
10 ft. . 12 fi., wodten floors on a sloping cement floor, so that all is dry under
them. They have no cough, and are in
just good growing. condition. They have just good growing. condition. They have
been on the sow and getting separator been on the sow and getting separator
skim milk, with a liftle corn meal in it.
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\(\qquad\) Din. D YM MNT, Hickory Hill stock Farm,
\(\qquad\) SOUTHDOWNS
Sootoh Collles. Robt. Mcewen, Byron, Ont.

"Ropiogro" for champlan the the enort 1506 and 1006

SPLENDID MUTTOH

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TMicm highly valuablo Mnglimh. Broel of mhoos io
Wondemfully Early Maturlty. Envinois of oonstitution, ndepted to all olly proportion or lean moat it in wintiJAMES'EiRAWLENGE, Beorotary Hampahire Down Sheop Broedostr' . Sallebury, England.


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wool, harainese of oonstitution and STRIDE \& SON will sall by auction at Chichester, on Wednesday August 7th, 1907
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leading registered floeks in England.


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won fryip prize and silver medal ati Toronto 190 an
 MAPLE LEAF BERKSHIRES Now offoring King of
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bows bred to Brition Duke (imp.)
alior oung owa and
boors, 9 and 10 weekg

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lent breed ing end ideal bacon type. This her Among our winnings at World's Fair. St. Louli
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of Choicest Type and Breeding I have on band 75 brood sows of Princess Fame, Cinderella,
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 imported. For sale: Sows bred and roady to breed, boars ready for
servieo. and ounger onee. all ages, richly bred on prizewinning lines


QUTSTIONS AND ANSWERS h bought a pig from an addertiser

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honora wherever Am now offoring bow
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time for men who have begun to feel old, broken down and feeble; men who are weak and puny, and time for men who have begun to feel old, broken down and feeble, men who are weak and puny, and
who have lost the force of vitalty, who feel Eloomy, despondent and unable to battle with the affairs of
life; who have Rheumatism, Back Pains, weak stomach and Kidneys, and feel generally as if they needed to be made over

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into them. You get up in the morning feying like a two-year-old.





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\section*{WHEN YOU ARE CURED, PAY ME}

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PLEASE MENTION THE FARMER'S ADVOCATE

QUESTIONS AND ANSWER Miscellaneous.

VOTING ON BY-LAWS kes a vating on a by-law, where takes a majority of the property owne
on the last revised voters' list to since died count in the total vote? 2. Also a person selling his propert and leaving the municipality, does his 3. If so, can he come back and vote Sutario. SUBSCRIBER. TREES ON HIGHWAY
I have a wire fence along front
farm on the line. Have levelled tho side of road from fence to ditch the sceded down, also planted a row fence on trees about a foot and a half from 1. Can people drive along on it wit
buggy ouggy or wagon, cutting it up, an
probably injuring some of the trees? 2. If not, what could I do to preve
3. Would the parties be liable to 4. If I put a fow rails on it and a
person drives along and injures his am I responsible for the damages ?

Ans.-1, 2 and 3. Subject to the pro visions of any local municipal by-laws on the subject, we would say that they might be prosecuted before a jus
the peace and subjected to a fine.
4. It is probable that you are OYSTER-SHELL BARK-LOUSE. 1. have read in different issues of your
paper about taking care of an uld orchard, but it doesn't apply to my case. old, and some of the trees are almost
dead with the bark-louse, and some of dead with the bark-louse, and some of
the limbs are dead at the end. Ans.-The oyster-shell bark-louse is
probably one of the most widely-spread Insects we have in the Province, and it
is doing serious damage to many orchards where spraying is neglected.
The best way to deal with this insect the spray the trees thoroughly before
buds open with the lime-sulphur Wash. This is prepared according to the
following formula: Fresh lime, 20 pounds; sulphur, 15 pounds; water, 40
gallons (1 barrel). 40 into a paste with warm water is made is slaked and added with about the lime ly mix water, the whole being thorough-
my stirring. This should be boiled for at least an hour and a half,
either over a fire or steam turned in from a boiler. This mixture should be strained into the
spray barrel or tank, and be sprayed taken to cover all parts of the tree, particularly the small branches upon which
the scales spread every year
 the branch so so that the wind blows them Good results have also been obtained with whitewash made of fresh lime, using about one and a half pounds of lime
to a gallon of water. This should be
strained before strained before being put into the spray
tank or barrel, and may be applied any time during the winter. It has an sulphur wash, scales similar to the lime- not the beneficial
effect of the limesithoter stroying spores of fungous diseases, such as apple scab, which may be upon the
branches. The oys destroyed by spraying with kerosene emulsion, while the young with kerosene
ing from the shell to the newere crawl- parts of
the tree. This takes place the tree. This takes place about the
first of June. There is more or less
Ther langer, however, in using kerosene emul-
sion unless it is properly
 season of the year when the foliage is
in the tiees than in the winter or earl
in the spring before The spring bofore growth begins early
Trees aficted with the scale should b or limn sulphur wash for two or th
seascons wuthil the trees are entirely
of them.
H. L. HuTy```

