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THE WILIIAM WELD COMPANY


Notes from Ipeland.
IRELAND ANI KING EDWARD.
The world-wide sense of sorrow and loss oc-
casioned by the lamented death of His late
Majesty King Edward VII. has found in no councasioned King Edward VII. has found in no coun-
Majsty
try a more spontaneous and sincere expression pathy has gone forth from all warm Irish hearis to the Royal Family in their sudden and sad be iews might bias their attitude, on such casion, hate vied with each other in the elogumen
of their heartfelt tributes to the supreme tact, un monarch. It is safe to say that no occurpant dead he thron" "wer enioved so much popularity or remeople as King Edward did. His close ddentifi-
cation with sport and farming, combined with his personal arcomplishments of head and heart,
gained for him a hold on the affertions of the
alriculturists of the Many times did His Majesty honor Trish shows


 $\qquad$


as 390 gs. was bid for Mr. Harrison's Irish-bred as
Prince (Ilat 11, which stood first in Orphan
Stamp's class, and was reserved at 500 gs. Of Aberdeen-Angus, the entries numbered 149 ,
and a very uniform muster they made from thi. standpoint of quality, this beeng in keeping with
the introduction by enterprising Irish admirers of the introduction by enterprising Irish admirers of
the blackis of high-priced bulls from Scotland; in fuct, the pick- of the Scotch sales. Hence the
young doddies are now displaying a far better tone, with more breed character and finish than those seen four or five years ago. Milking quali-
ties of course are not a strong feature of the
Hlacks, and this drawback will seriously restrict
their popularity with Irish farmers, but as therhacks, and this drawback will seriously restrict frasuds to which essential, because of the frequent deen crosses are always at the top of th. berf confusion hus cexisted when hitherto the utmost market quotations, the breed will continue to taken. Is a result of the evidronce loidgs were make headway for this purpose. The display at them, the Committee drew up clear definitions of
the recent show was most gratirsine to ali its what is to he understood in the future as "cream-
udmirers. Herefords totalled 88 entrics admirers. Herefords totalled q8 entries, and, un- "re." "actory" and "dairy ", butter-the three ins advance in merit and were it not for a fine mumemal trade descriptions of trish butter In section would have heen below Fhglish herds, the The term "creamery butter," according to the standard. At the sales they were chiefly asked from cream siparated by centrifugal force from the which they suit admirably. great graing districts, commingled milk supplies of a number of cowthe), held their and Dexters (Ireland's native cat- manufucture of hut ter in commercial quantities. the beef and dairy "The term "dairy butter," as understood in the
 as if the breed had very poor prospects in Ire means butter made at the farmer's homestead whether from whole milk, hand-skimmed iively kept, but the fact that they are now sel
tom sern would go to prove that in spite of theil deep-milking powers, they do not suit Irish con the trade means any hutter hirnded. reworket, of In the pig classes at Ballshridye we had a rue. Patter made at the farmer's homestoad fron
$\qquad$


## HORSES.

## Three-horse Evener






the regiettable irregularity of the sumplies fault
$\qquad$
$\qquad$
$\qquad$
$\qquad$strongly rixommended. Pasteurization is also
$\qquad$
$\qquad$The Orphan Colt


Walter Winans Miniature Pony, 24 Inches High the International Horse Show, at Olympia, London, England, June 6th to 16 th.
gradmatiy the amount may be increased, and have entailed no hardship on anyone, would have
wheat bran added. wheat bran added. In five or six weeks some disqualified no animal bred in Canada, and would
sweet snimmed milk may be given. and the amount have prevented a slur being cast upon the parent swed snimmed mind may be given, and the amount have prevented a slur being cast upon the parent
gradually increascd dails, until, in three months, society in great Britain, which, in view of all that or so, it may be given freely three times a day, in it has done to promote purity, and the integrity of
place oi new milk. The foal at this age, also, those engaged in horse business, is utterly unde"ill be eating ireely of grass, grains and bran. $\begin{aligned} & \text { served. Kinowng, as I do, the whole facts, an } \\ & \text { as }\end{aligned}$ be supplied. The ioal should run out in a lot or to refer to the matter, I add nothing more now,
grass patdock for exercise. The fecder should ac The whole affair leaves a bad taste in one's grass paddock for exercise. The iecder should ac- The whole affair leaves a bad taste in one's
custom it to be handled daily. Small quantities month." of nutritious iood should be iod often, kepping all
food vessels clean, and the foal should thrive and

The Beam and the Mote.
Iditor "The Farmer's Advocate":
In your issuc of May $12 t h$, under the heading " (hur scottish leetter," appeared the two follow "Mg parabraphs in ipstakt stumbook.
an Reventy, the pross in this country has heenn

 registration in which pives a title of irve entry
into Canada. It is diflicult to beliese that much Into Canada. It is dillicult to believe that much
in, uiry was made into the nature of this so-called
studibouk before this intimation was authorized studbook before this intimation "as authorized
to be made by your lepartment. If any in
diventur dividual resident ancwhere in Fhgland can stari a and get it placed upon our therart ment's list, :urquainted with the facts in this countres the a full morention with respect to sir flomery and baraidn, Irime. To hee superlatively strict in the lathe "ur " representing a socicty of ow er 1.300 ) beeders

 mekistration in the National Lix-stock Jeword
 the determination of the 'rldestale Association of
Canada not to recognize th ddecision of the council furser known in Canada as $\operatorname{si}$ Herrs (132m),
$\qquad$


Moss Rose (6203)

Tholish Hackney Horse Weciety the Figlish Shi Iorse Association, the Polo and Riding Pony So ciety, and the Hunter's Improvement Society, that our recognized list it is sufficient to bay be on these representations the Imperial Hunter Stud"The scottish Farmer", and the Clydegdale dited by Archibald MacNeilage. The are both society of Creat Britain and Ireland, through its secretary, did not lake the kindly course of the and seek to set the Record committee right in matter in which it was considered it had erred The Scottish Farmer. a few issues ago, published a whole column article similar to the paragraph
entitled An lipstart studbook. Import certificates iscued for animels recordet in recognized foreign records are taken up by the customs authorities, and the matter ends there The record is not perpetuated the same as in the though it is generally known, it may not be amiss o mention here that no pure-bred import regutaand the very horses which your correspondent and the "Scottish Farmer " are making such a fuss fira would be entiticd to enter Great Britain in a book similar to the Imperial Hunter Stud a correspondent might, perhaps, is a Alied himself assiduously, clean house nearer home pefore suggesting details of registrations in the National I.ive-stock Records office at Ottawa." Take the case of Clydesdales imported from areat Britain to Canada. I am safe in saying from the oflice of the Clydesdale Society of Great britain and Ireland do not describe horses with especially markings. In the he matter through the those whiculturnal press kno hat these two horses are almost identical in co the Scotish Studbook. $\mathrm{I}_{\mathrm{I}}$ might say a great den about this matter, but it is unnccessary ; the Clydesdale Horse Association of Canada are satisfice
that Sir Henry was imported in 1906, and that ends it, as far as they and we are concerned. It is now an issue between Messrs. Smith \& Richard simn and the Clydesdale society of Creat Britain business or rood naur has heen injured in an Notwithstanding the fact that the Clydesdal Horse Association of Canada had refused to cance He Camadian registration of Sir Henry. Mr. Mar
veilage issued an export certificate for a hors Noilage iscued an export certificate for a horse
called Gallant Ciray, sired by the Scottish Sit

$\qquad$
so if requested. That may be, as far as
the ordinary "export" goes, but it does not ap
ply to the following certificate, which is issued especially to conform to the rules regarding elig
bility for the Canadian book:

THE CLYDESDALE HORSE SOCIETY OF THE UNITED KINGDOM OF GREAT BRITAIN Certificate of Record and Pedigree To Conform to Canadian Regulations re Import to be Placed on File in the Oftice of the Canadian National Records.



I hereby certify that the above is the correct
pedigree, as registered in the Clydesdale Studbook gree, as registered in the Clydesdale Studbook ydesdale Horse Society reland
Dated at Glasgow, Scotland
Again, as late as April 15th, 1910, he issued Again, as late as April 15 th, 1910 , he issue
for a gentloman who had never before imported
horse into Canada the following certificate:
THE CLYDESDALE HORSF SOCIETY OF TH NITED KINGDOM GRELAND.

$$
\begin{aligned}
& \text { 1 hereby certify that the above is the correct } \\
& \text { pedigree, as registered in the Clydesdale sta } \text { st } \\
& \text { book. } \\
& \text { (Sgd.) ARCH'D MACNEILAGE, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ecretary of the Clydesdale Horse Society, } \\
& \text { the United Kingdom of (ireat Britain a }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ireland. } \\
& \text { at Glase }
\end{aligned}
$$

Dated at Gilasgow, Scotland.
15 th April, 1910 .

A casual glance will show the most ordinary lam Doll is recorded, she is not. Although the randam Fanny is neither is not numbered; the Duty had to be paid on both Gallant (iray and Alston, or the animals had to be returned to Scot-
land. Besides, these animals or their progeny iill never be eligible for registration in Canada. issue the ordinary export certificate, he had no right whatever to issue the originals of the above, knowing, as he did, that the horses would not be accepted for registration in Canada, and that the that the Scottish Society issue these certificates as a guarantee of the eligibility of Scottish horses are a jewel.". " O consistency, thou essary to entle a Clydesdale Horse to registry in Canada and free customs entry
THE CLYDESDALE HORSE SOCIETY OF THF UNITED KINGDOM OF GREAT BRITAIN and irflan rm to Canal
To Conform to Canadian Regulations re Importa-
tion of Animals for Breeding Purposes, and Placed on File in the Office of
 $\underset{\text { Baron Rot }}{\text { (15001). }}$.

I herchy cortify that the whove is the correct
pedigree. as ragisterect in the clidestale studbook.
the United Kingdom of Great Britain a لated at Glasgrow, Mcotland

$$
\begin{aligned}
& \text { Certificate of Record and Pedigre } \\
& \begin{array}{l}
\text { conform to Canadian Regulations re Imp, } \\
\text { ion of Animals for } \\
\text { Breeding Purposes, }
\end{array} \\
& \text { and to be Placed on File in the Office }
\end{aligned}
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$$
\begin{aligned}
& \begin{array}{c}
\text { Alstonn } \\
\text { (21700). }
\end{array}\left\{\begin{array}{c}
\begin{array}{c}
\text { Dam. Doll } \\
\text { (Vol. XXi X. p. 10) }
\end{array}
\end{array} \begin{array}{l}
\text { Sire, Scottish Banner (9671 } \\
\text { Dam. Fanny }
\end{array}\right.
\end{aligned}
$$

Importers should demand that all horsea boucht win, and he always delighted to be fairly beaten in Great Britain are bred as shown in the certifi- His Shorthorn herd at Windsor would rank next
cate of Baron Rothes; that colors are as described. to that at Collynie in respect of the quality of and that all markings that colors are as described, JNO. W. BRANT Secretary


Bob, the Old Favorite with the Children
LIVE STOCK. Our Scottish Letter

quite realized the fact, and
rangements are being made,
how great the loss has been. King lidward hul
many kingly qualifications. His occupance of the
throne was comparatively short scarcel
decade was kiven to him whose august mother herfue seat for six decades $H$ was $u$ won-
derful reign in respect of all that was crowded into it of advance in science, art, trade, politics,
and religion. The Victorian cra, like the Fliza bethan era, in British history, was a time of phenomenal progress and striking national growth
Names among the greatest in all departments of Names among the greatest in all departments of
human knowledge flourished in these reigns. and he woukd be bold who would seek to appraisic the value of the two eras to the human race. But
during his short reign of scarce ten years. Fdward VII. did much. He added fresh lustre to the Mrit ish throne by his liberal interpretation of the meaning of "c constitutional monarchy. Ite was
essentially a democratic ruler, and it would be inessentially a democratic ruler, and it would be inmaking of his character in that regard. The fact that he iavored (iladstone and (rampbell-1hannerman, and disliked Salisbury, among statesmen, is
suggestive. He had a keen smnse of suggestive. He had a keen sense of justice and
equity, and was as far as possible removed from the attitude of the French monarch who, when asked about the people, said, Let them cat
grass. ${ }^{\text {It }}$ is reported that when the hoer war grass. It is reported that when the Boer war
was wearing to its sad close, he said,
I The commanding characteristic was tact, and in respe of consideration for those under him, King Edward VII. was in the best sense of the term
thorough gentleman. thorough gentleman.
13ut those engaged in agriculture had a special
interest in the lato interest in the late monarch. From hoth his
father and his mother he inherited a love of rural father and his mother he inherited a love of rural
pursuits. The lamented Prince Consort, husband of Cueen Sictoria, was a farmer-far in advance of
his time: a stock-breeder, and a patron oi agricultural development in every form. (2ueun Vic-
toria's grandfather, old George 111 .. was known as Farmer George and the late King Fdward vil.
was thus, as it were, born in the acricultural Was thus, as it were, born in the agricultural
purple. He, was interested in agriculture in all
its branches, and his visits in showvarde its branches, and his visits to showyards, like
those of the Royal, the Highland, and the smiththose of the royal, the fighland, and the smith-
field Club, wwere not mere perfinctory outings. He
looked at overething, and asked about evers thing.
$\qquad$
$\qquad$ inspected the implem:nt he ascended the stairs and
urowd the galleries. His oun successes with which
the stock bred and reared there. The Royal amily were splendidly served by their stewards.
The late Henry Tait, an Angus man, was appointed by the Prince Consort to manage the Shaw and Flemish farrms at Windsor. He was
succeeded by his son, William Tait, who only died succeeded by his son, William Tait, who only died
a few years ago, leaving no one of his own family a few years ago, leaving no one of his own family
to succeea him. King Edward VII. appointed to the honorahle post a young Scotsman, William Mc-
William, son of J. McWilliam, Stoneytown, Keith William, snn of J. McWilliam, Stoneytown, Keith agement the Royal farms and herds have continued to hold theif own against all-comers. At these farms the King bred Shorthorns, Herefords and
Devons. At his own seat. Sandringham, in NorDevons. At his own seat, Sandringham, in Nor-
folk, he bred Shorthorns, Southdowns, Thorough breds, Shires and Hackneys. He always had a large collection of Highlanders in the parks and policies at Sandringham, and at his Aberdeenshire Iarm of Abergeldie Mains, in the Ballater district,
he bred Aberdeen-Angus cattle and Clydesdales. The Prince Consort founded a Clydesdale stud at Windsor, and Clydesdales have always been kept there. Of the Royal successes on the turf, enough thorough Englishman in his love for racing, and as when he led in Persimmon after he had won the Derhy. The owner of four such racing notMinoru had no reason to be dissatisfied with his Tuck on the turf. Douhtless, the proletariat loved King Edward II. because of his sporting pro-
clivities. It made them ferl that he was human The weather has been a trying problem during
the past month. March gave us one of the best seed-times on record. April seemed to best changed places with March, and between cold east
winds, heary rains, snowstorms, frosts, and what not, it "as difficult to believe that the year was to te. Now we have had ne calendar a prove fortnight
a Nias in whose lap winter has undoubtedly gered. One day we have had of delightful sum1
ner weather, but generally it has been cold and Ost uncongenial. 1 see you have had had frosts "imter wheat. This will be an unfortunate expeni
"nce for the new seltlers. and some of them may
lament the change they made. Howner. all will come right in time und we will sue good har The export trade in clydesdale horsus and $A_{y}$
shire cattle is unusually brisk. Seldom have many horses been exported at this carly season of kipt Milk Rursords, atre coming to their pubn ticly liolert R. Ness, of llowick, Quebec, has taken chasers have been much in evidence. Nothing has
done more to deepen the belief of the farmer in the Ayrshire than the system Canadiai luild iut a Milk Record has been more in favo lyr and Glasgow we had first-rate kilmarnock that sultle-big, roomy cows, with bags and teat nock for the best female Aspromionship at Kilmar the first-prize two-sear-old heifer. This was a are to be congratulated those responsille for it So far as Clvulesdales are concornats neen a vor of triumph for young stock. At kil-
narnoch the female championship wont to a yer ling filly by Baron o' Buchly vie (1126:3) to a year-
lion concerning whose in the courts. He is breeding splendid stock, and apart, possibly, from his sire, Baron's Pride and
Hiawatha. It is dangerous to prophosy what linals thay he ; the present would indicate possible comers The weight of IUuchlyvie against all-
on the older sires, and beginning to tell WII the older sires, and a good return may be rippatrick's ovama, a cawdorcup winner, is as a two-vear-old at the H. \& A A. S. Shampion
at Pemhes. in 190, is promising to rank among the
foremost. He is a son of Raron's Pride, and his
own trother is sonfown ownlerother is somewhere in Canada, having been Ireland is flourishing agriculturally. The an-
nual spring show at Dublin was this year an unof Nhorthorns, lut there was a very large entry was seen in the Aberdeen-A advas cattle. The Hereford is hred in come parts of Treland, and as
grazing cattle they are not pasily beaten. Short-


JUNR 2. 1910
great improvement has taken place in the ave The system of distributing premium bulls has bee wality of the stock has impressed the Britich. Th $r$, who finds himself now in possession of cattle which respond more rapidy than used to be the case to the better "keep" bestowed upon them 1y treated on their way to the British market They have to submit to much hard usage, and often bear marks of severe handling, as they and
driven from fair to fair. until the driven frcm fair to fair, until they are shipped a
the numerous ports which dot the coasts of Ire
land. The chief ports for the clyde land. The chief ports for the Clyde and Mersey
are Dublin, Beliast and Derry. Cattle are also shipped from Limerick, on the Shannon, and Cork and Ireland can best he estimated by thestain watch the sailing of the great channel steamers nine of these are canstantly on the Eight or there can be no doult that all this indicates and siderable prosperity in the Emerald Isle. Advanced agriculure is receiving increased at tention on both sides of the Atlantic. The in
creasing number of training colleges and farms and the extended equipment of these point to great advance in knowledge on the part of the next generation of farmers.
The report of Macdonald College at Ste. Anne of its many-sided activities, he marvels whereun to this thing will grow. Training in the family seems almost at a discount, and one wonders
whether, with it all, the next, generation will be whether, with it all, the next generation will be
hetter mothers than those whom we have known. I cherish a wholesome skepticism on the point, be cause I do not think any training so develops the intellect as moral training. The old Scots idea of cannot but train the intellect." "The modern cannot but "Train the intellect " The modern
theory is. "Train the eye, the brain, the hand let the conscience go as it pleases." The end of
this may be a smart race : it will not be a strong race. The only race that abides is the race that of hand that one may acquire will never educate the conscience. My ideas may be out-of-date, but
let me give them vogue: Educate the conscience let me give them vogue: Educate the conscience,
gentlemen. Show the youth of Canada the significance and greatness of moral distinctions, and the hrain wili be educated in the process. The most
nimble race in Furope is the least moral, and its abyss.
Here we are receiving from politicians many things that we never asked. We are to be de-
veloped agriculturally by gentlemen who are called Ihevelopment Commissioners, and a new authority
has been constituted to look after our highways. Its title is the Road looard. The chief end of this
It Board is to demonstrate and provide for the
supremacy on our public highways of the motorsupremacy on our public highwavs of the motor-
car and motor traffic of every kind. The purpose is to make roads safe and comfortable for the motorists. The man in charge of cattle and sheep
must lonk altor himself. In all probability he malamp, so as to prevent his she The agri-
malimed hy the modern Jugernaut car Top the road
ult does not count for much in thes and Wlturist does not count for much in the road
latte He pays his taxes, his road rates, and
arersthing that is charged against him. He is an
ard Chich usually. fullls to that patient and useful nimal. It is not casy to say what the end of fates to pay than hitherto.

Oxford Down Sheep
$\qquad$













## THE FARMER'S ADVOCATE

that the strength and vigor of new blood has and have practically ousted other Down breeds for been, as it were, a heritage to of new blood has crossing purposes upon the Cheviot, half-bred and
favoring and under a cross-bred ewes in the South of Scotland. Thou favoring environment the breed has developed size, cands of lambs are raised in this district, and constitution and individuality, together with early shipped annually to London, and the Oxford
maturits, and a capacity for muthon and wool croses are finding large ave with maturits, and a capacity for mutton and wool favorable recognition, notwithstanding the comparatively short period of its history. bren bred without infusion of fresh blood had period of perhaps twenty years, and were recognized as a distinct breed. In 1862 they were arcorded separate classes at the Royal Show. A
Smithficld, since that time, they have made a par ticuthficld, since that time, they have made a par
ticularly good showing in the market classes. The first importation was brought to America in 1816, and other importations followed intermit
tently up till 1880 . Since that time, Shafor, of
 butchers. Some years ago, at the Scottish NaOxford crosses took all the prizes. They grade flockgnition for crossing purposes upo ragor and good mutton form promoting quick rowth and economical feeding capacity in their ave largely late years, importations to Americ Wale largely increased in numbers, and a usefu
Western trade has been developed where Eastern bred rams have been sent to serve as flock headers in localities where improvement in mutton producing capacity was desired. Competition is ringing these handa sturdy sheep to th

A Quebec Live-stock Show
A semi-annual live-stock show, the initial on was held by the District of Beauharnois Live-stoch
Association, at Ormstown, Que., on May 18th and 19th. The promoter of the show and sale, Dr where a splendid stud of Clydesdales is kept, was ably assisted by Dr. A. McCormick and a number of stockmen within the district. An association took for splendid result $\qquad$
Over 200 entries of horses, 150 of cattle, 60 of sheep, 50 of swine, and 250 of poultry, graced
the stalls, pens and coops. The quality was such the stalls, pens and coops. The quality was such
as any section of Canada might be proud of. Cly desdale horses were shown by Dr. McEach an, whose stallions and mares made a fine dis-
ay ; Robert Ness \& Son, whose Clydesdales, Robert Ness \& Son, whose Clydesdales,
oachers and Hackneys were much admired ; H. Le barge, S. McGerragle, Nussy Bros., and others. Brafters were a typical lot, of heavy weight, combined with guality. In this class the above had ullen, and others. Light drafters were the trongest department of the show. In some of the classes there were from 10 to 14 entries. In James Irryson and Nussy Bros. were exhibitors If Fench-Canadian horses of good stamp.
In the carriage classes, as well as in the driv. In the carriage classes, as woll as in the driv
ing classes, there was close competition, and many fine carriage and driving horses were exhibited. Saddle horses and hunters were out in larger
numbers than at any previous show in the disnumbers than at any prentous show in the dis
trict. trict. The judging of light horses was done acceptably the judging extended over the two days and both evenings, the interest of the spectators was held The display of cattle far surpassed the expectations of its promoters, thanks to Neil Sangster, $J$ ames Bryson and other energetic stockmen of the
district. Naturally, an Ayrshire center would be axpected to make a good display, and visitors were not disappointed, for no such display had ever
been seen in Quebec. This popular breed was been seen in Quebec. This popular breed wa
shown by H. Gordon, J. P. Cavers, J. Bryson, J. shown by H. Gordon, J. P. Cavers,
W. Logan, W. T. Stewart, R. R. Ness, D. T. Ness,
W. Wm. Hay, P. D. McArthur, and R. M. Howden. The aged-bull class was made up of four of the
best Ayrshire bulls ever brought into the district. Dest Ayrshire bulls ever brought into the district.
Ness's (aay Cavalier, a champion in Scotland, at Seattle, and in the West, won first place. His massive frame, strong constitution and splendid mainmary development Milkman tawa, of finer quality and true type, won second, and Logan's Netherhall (Good Time, with his deep
middle, was third. The young-bull classes were middle, was third. The young-bull classes were
well filled, and had some rich blood. The agedcow class contained a lot of fine matrons. The young classes were all well filled, and had froin 10 to 14 in every section. The aged-herd prizes
were won by Ness, Logan and (iordon : young herds, Ness, Bryson and Logan. Silver cup for best female, Ness, with Finlayson Maggie. Prof.
(irisdale made the awards in a satisfactory man-

$$
{ }^{n e r} \text { The Black-and-Whites made a creditable show- }
$$

The Black-and-Whites made a creatable show- $\begin{gathered}\text { Holstrins are replacing some of the inferior } \\ \text { ing }\end{gathered}$ This brecd has a ing. Cattee in this section. This breed has a
dairy cat an
warm advocatc in Neil. Sangster. Ormstown, who nas a hird that has made some grand records of through the Candian Rucord of Performance test.
Wr. cungster was the largest exhibitor. Others Mr. Sungster "as Hune ingdon T, Rutherford and D Cowan. Ormstown. Prof. Barton judged the Hol-
toms, and showed his rapmaty as a judge of
He also iudged the Jerseys. These
 d Sonse Brampton Ont. is a peach

aii, and thigh thictly flested down to hook cil ut on his paterns. The multon should be

 apped


onsin, have been prominent importer nited State and Miller and the theos to the ada. The American Oxford Iown Record Associa-
tion was organized in 1881, and the British AsOxfords are the largest and heaviest of the Down breeds, though they are closely approached
by the Hampshire in size. The head of the ram is bold and masculine in character, and is set
firmiy on a strone neck. The face is of moderate length, dark brown in color, and may be with or
without a spot of gray on the nose. Width is
desired between the ears, and the poll should be covered with a strong topknot of wool growing cll down to the eyes. lark wool is objection-
The ears may be dark
, hehind the pars.
The uniformly over the shoulder, the legs are
the chest wide below, and the heart-girth short the chest wide below, and the heale biving a strong constitution. The barrel is deep, and of good length



Unfertilized.
Pots and Plants of White Lupines with Nitragin
$\qquad$
Swine of the Tamworth, Yorkshire, Berkshire lated, and the remaining solution equally dis-
and Duroc-Jersey breeds were shown. Nearly all tributed amongst the pots immediately aiter
were of were of the improved bacon type. ${ }^{\text {. }}$, seeding, being poured on the surface soil. All sheep and swine, and also the French-Canadian following plan: Were conducted according to the horses.
The poultry was divided among various breeds. The poultry was divided among various breeds,
he Rocks and I lhode Island breeds predominating the Rocks and Rhode Lsland breeds predominating
These were judged by Arch. Thompson.

THE FARM.
Soil Inoculation Experiment with Nitragin and Nitrobacterine.
$\qquad$ ation with nodule bacteria of legumes for sterile soils, the Royal Hungarian Agricultural Experi-
ment Station, at Magyar-Ovar, Hungary, arranged in the year 1908 a series of comparative experi ments in pots with these inoculating materials, for fungary possesses extensive areas of sterile sandy
oils, on which legumes, especially the lupines frow indifferently. Both the abovenamed inoculating materials
are procured from pure culture from th. nudule are procured from pure culture from the nedule
bacteria of legumes (1hizobium radicicola, or khizobrium Beierinckii), yet their appearance and the inoculation and of the potash-phosphate for of nanner of their application differ widely. Nitragin, prepared according to the recipe of 2 nd, and the harvesting took place just on April Prof. Hiltner, by the Biological Chemical Labora- setting of the first pods, on the 26 th of aune th tory of Dr. A. Kuhn, in Bonn, Germany, is put the second of July the pots were gagin seeded ant on the market as a fluid, and the method of its application
the fluid
theilad
bonted skim milk, and, after thor-


JUNE 2, 1910
THE FARMER'S ADVOCATE

Producing Large Corn Yields.
The cultivation of corn in this scation ' Co.. Unt., commences with the plowing. We much prefer clover sod for growing bumper crops of soil, provided that there is good drainage, tho of stubble land, as well as lands that have just been in hoed crops, ure not very suitable, since the supply of humus is likely to be small, and, as
corre requires a soil rich in vegetable matter crop would probably fall short on account of the


 ground elpht or ten times, getting a perfect seed-
beal orn is fond of hoat and air and the end-
less amount of harrowing less amount of harrowing given before plamting
conserves the moisture, destroys young, growing conserven the moist ure, destroys young, growing
"weds, and warms the ground before planting. We are also very prarticular about planting as
straight and as shallow as possible. Tha planters are repiacing the shoe planters, and are
giving anuch better satisfaction. Great care
chould be tation giving much better satisfaction Great care
should be taken not to plant corn too deep.
When weather is warm, and corn growing 1), we very seldom usi a weeder or harrow on our
deep. mucky land, but when soil is inclined to b. Ome hard, we frequently harrow about five das Corn is ofton injured he lasing cultivated when be better to keop and ground damp, and it would ays return. We have often noticed corn getting cold wather. We firmly helieve in deep cultiva-
tion, wad as close to the voung plants as posimin of firs atadually lessening the depth and possitue
h. cultinaturs away froe the high. We try to go over our corn three times me waw, and four times the other, lwaing last
"ulication the way the ridges run We use
hreathorse cultavators, with twent whe whovel one man with three horses cultivating twenty acres Inst sear we produced one hundred and eighty-
five hashels of corn to the arre. and it is cuaite
possibie. under invorato h.ushels per arre. It costs us from ten to twelve
dollars to produce an acre of corn, includine use wight to tones dollars, and the harvesting costs from according to vield.

Summer Tillage in New Brunswick
 (o, 'o make sure there are no weeds left in the mived, We will get those of the most approved

$\qquad$ When the frimur consides thav tonn of will a ton or what tran, he wexht to sum that it is arme it mo had comelt tons of tran in the cont


## Round Daipy Barns.

$\qquad$ convenience, strength ond rectangular form are the claim made in a bulletin by W. J Fraser oi bana, Illinois. These barns are usually built in two storics age, and for stock, and the upper for feed storthe center. Where there is but a single row in cows, they stand in a circle, with heads toward Between the manger and the silo is
the feeder passare. It can readily be scen that
lap nailed horizontally on studs being the siding ordinarily used) forms a hoop that holds the barn together. Every row of siding boards running also the roof boards and the arohed rafters. ${ }^{\text {a }}$ Not only is strength thus secured, but the wind pressure which exerts such force on the side or gable-end of a rectangular building gets no such
hold on a circular structure. The wind glances off the rounded sides and the arched roof from whichever quarter it may blow.
While extra comveniance cost
While extra convenience and strength are matter of economy the he strongest part
the case in its favor is
 made out in the bulletin. The upper story of a $s$ a silo in the center for oof support, with roof
of proper design, requires of proper design, requires
no brace timber. The ide studs are braced tem, orarily while siding is is all that is required. t all that is required.
$t$ can be seen that, in onsequence, much less han for a building cctangular shape. A
comparison of cost of round barns
sizes with different barns of the same capacity, is given, in every ase the round structure (ne only, that of superstructure of round barn 60 feet in diameter, as
compared
with superstructure of a rectangular
barn $36 \times 781$
feet,
need barn 36 x given here. The ca-
 of distributing silage to the cows. The feeding ing, sid ng and flooring, $\$ 285.36$; shingles, $\$ 165$
commences at the chute, where it is thown down, Total $\$ 99 . \pi$. the silage cart at the chute again. ready for the Rectangular 13arn.--AOAng, \$337.81; shingles next fecding. The same thing is true in freding $\$ 168.75$, bolts, $\$ 20.88$; total, $\$ 1,023.27$, A hay and grain." Where the barn is made so large mortise frame, at the same value per thousand hat it contains two circular rows of cows, ceon- feet, would cost much more; other supplies woutd be
equal. the total being given at $\$ 1,233.41$. $\$$ handling is lessened. Th. roof in the center is supportad by the sild. A Asa ing on such a structure of from $\$ 224$ to and if roof is made with a double pitch, it is sull. $\$ 434$, if it can actually be made out, is certainly estimates are made out
or new material all
all new material all
through, and at prices for
lumber at present pre-
 we fort a very good arn, and its advantages ruilders: but where vorked into ner to be (ures, as is the case on
Cutario farms generally. he rectancular form of ,er min he used, will

Seeding with Buckwheat.
le paper some time ayo le paper some time ayo where a man was speak-
ing of steding clover and ing of steding clover and
timothy, along with buckwheat. Well, I can speak
from my own experience of last year. y sowed a
preece of buccheat, and
siecded it with clover and simethy I sowed three
timeks of buck wheat, three


Round Barn Completed
$\qquad$
 ot haine to more hav more than a fus feet
$\qquad$ The circular construction, it is claimed, is the the farm, tuat it often takes study to find it. The <t grade that their pootection enarantecs
'THE FARMER'S ADVOCATE

## Fertilizer Problems

 perience goes to show that in much the larger
number of instances a complete fertilizer is the one most profitable on worn or exhausted lands. is an indirect effect of a mertilizer, in addatition there its direct function of feeding the crop. It is quite
possible, and, no doubt, frequently the case that possible and, no doubt, frequently, the case, that
the application of a ". one-element "fertilizer in
Creases in creases by chemical action the amount of the
available store of another element and thus the limiting degree of the latter is raised. It is for
this reason extremely difficult at times to detersh, or phosphoric acid-may be
And now, coming to the second paragraph, we find first certain observations and statements
which call for no particular comment; and then an which call for no particular comment; and then an
account of the manuring and cropping of a certain two acres of rather low land, which we may now briefly discuss. Taking the case of the tur-
nips, which gave such an excellent crop nips, which gave such an excellent crop where the
pig manure had been applied, and such a poor
yield from land most probably the explanation lies in the richer character of the pig manure. If the pigs were being well fed, and, were for the most part fairly-
barnyard manure would contain smaller percent-
ages of the fertilizing constituents than that from the pigpen. Turnips are much benefited, especialespone earlier stages, by a forcing manure, and
eanticularly to dressings containing available phosphoric acid, which. however, is not usual-
ly a dominant consiturnt fairly good land, an application of superphosphate necessary, according to English practice for thi forage for its food than turnips. hence it might thrive, when turnips failed. The heave krain crop
that followed, and was equilly, good all over might go to show that at that time the soil had
a sufficiency of nitrogen, partly from the manure applied the previous season, and which was now
setting tree its of feeding off the rape,
rape crop is highl
doubt the better

```
turge porcentage of nitromen in its rusid
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quiries towards the end of $y$
letter. The acid phosphat
motash and nitro
aining roodly. lest
largely on the charactor of the fould usel
Glected bs certain fuctors and in the

| THE DAIRY. | thoughtul study of their varsing individuality |
| :---: | :---: |
| Cow-testing: Reasons and Results. II. | the profit and pleasurable interest in the handling |
|  |  |
| ten |  |
|  | a moment should there be allowed any |
|  | ening weight of mere averages." conspicuous |
| not simply to arrive at a knowledge of what each | merit might be snowed under by an avalanche of |
| cow produces, but it is from that knowwedge. |  |
|  |  |


profit per cow can be greatly and quickly in the
$\qquad$ GARDEN ORCHARD.
$\qquad$ obtain the largest profit who study the individual moterences of the cow for certain feeds; and,
further, give each one just as much as she stead of feeding each cow precisely the same, giv ing each one six or eight prounds of meal per day, practically as much milk or fat if fud a pound les les erain, because their dairy nature or temperament is such that they are not able to utilize more
grain or produce more milk, hence the extra grain
is thrown some one or two cows in the herd may possess more if given the opportunity, that is, if given Fiven, however, if it is not found necessary it may still he found profitalle to fore any cow,
two or three animals it for
uring principle of the difference betweem only just kerep-
ing a sove alight with a small amount of fucl.
thus obtaining practically no but materially increasing the weat, to the profit In view of the high prices of meal. it needs but difterence can be made in the net returns and in
the total profits if the meal ration is adiusted to distance between cost and so aslling price increase the later

$\qquad$
$\qquad$
$\qquad$

The Brown-tailed Moth in New England.
Brown-tailed moth were being brought into the
United States upon nurFurope, has brought this pest to the from fronand has interested the whole country in what hadthe past three years, of Nova Scotia. Every whereserious character seemss to be admitously, and it
During the writer's nearly thre thehas taken every opportunity to study this moth
${ }_{t}$ is orchard pest (that is, for its lenireating) thatnot seem tont caterpilar in this respect, and doesritation caused by the hairs getting into the skin
which make it so soriousriter wisitestrate this. quat ago th.iful,
if he
are of his o
rom catingquiries towards the end of y
letter. The acid phosphate

would
ter requiringother farm manures, its composition or walit, is

$\qquad$
that the apple trees inight readily have been mis- many risks in going into the broiler business ex-
taken for oak trees with ther leales still on them. tensively. Winter chickens are much harder and taken every roadside apple, oak or elm tree was full of them. Under such circumstances, it seems to
the writer a hopeless task to try to stamp them out. Perhaps he is mistahen, but it would cer-
tainly seem that, with all the rough, wild lands in New England, which must be looked after by
the State, if at all, it is out of the question to ever entirely eradicate them. On the other hand, H. L. Frost, the head of the Frost Company, which
does an immense business in caring for shade, forest and orchard rees for cities or private owner
(using last year in their spraying operations
tons of arsenate of lead), expresses the opinio or losing them in a very few years through the Frost said he had seen a thousand acres of forest land near Arlington as thare of leaves in June as two moths. And friends of the writer who live
near Boston. and visited Amherst last year at the time of our College Commencement, in June, re-
marked on what a relief it was to get to a seection where the trees were still green. Of course, trees
will not stand that sort of thing very long, and it is only, a question of a very few years when
Mr. Frost's prediction will be fulfilled, unless some plan can be devissd to put a check on these pests.
The writer is deeply interested in this problem, as it is developing in Nova Scotia. where it would srem that conditions are even more favorable for
the multiplying of the Brown-tail moth, since the country where it has gained a ioothold has even more of the wild, waste lands than are found here
in New England. Certainly, everything possible ought to be done to deal with this problem there
while it is vet less serious than it has become here, and the Province is fortunate in having the matter in charge of men who will leave no stone
unturned to stop the spread of the Brown-tails, unturned to stop the spread of the Brown-tails
and prevent the Gyspsy from gaining a foothold.
Massachusetts Agricultural College Pomology.
Peach Growing
In peach-growing, as in all other occupations,
$\begin{aligned} & \text { the proper locaton is absolutely necessary. This } \\ & \text { is especially true in our state of Michigan. The }\end{aligned}$
$\begin{aligned} & \text { peach being tender in the fruit bud, the sevene cold } \\ & \text { dips in the winter often kill the fruit-buds. Close }\end{aligned}$
$\begin{aligned} & \text { dips in the winter often kill the fruit-buds. Close } \\ & \text { proximity to the moderating influence of the lake }\end{aligned}$
is essential. This, in Michigan, means get your
iu the hollows at the base of these elevations the
thermoneter drops down so much lower that the
buds are killed, and no fruit results.
base of the hill, and extends from there to the
$\begin{aligned} & \text { shore of Lake Ontario, on the north. The soil } \\ & \text { must be fairly dry or well drained, as the peach }\end{aligned}$
$\begin{aligned} & \text { can't stand wet feet. Naturally-drained soil is } \\ & \text { best; artificially-drained soil is good. Here in }\end{aligned}$
the Niagara you grow peaches on sandy loam; in
Michigan we grow good orchards oan, but prefer
$\begin{aligned} & \text { a clay loam. } \\ & \text { Grow the varieties your markets demand, and }\end{aligned}$
$\begin{aligned} & \text { roduce good crops of good iruit. } \\ & \text { I prefer low-headed trees, pruned to a whip }\end{aligned}$
When set out, and 18 inches high. Cultivate
arly, spray well, ripen your wood by seeding
$\begin{aligned} & \text { lown with a cover crop in the end of July, as } \\ & \text { pats, barley, clover, or hairy vetches. This will }\end{aligned}$
ats, harley, clover, or hairy vetches. This whe the
arly spring, helping the soil hold water, and a
Wrach well grown -contains 95 per cent. of water.
$\begin{aligned} & \text { lances neglect to thin. It means just as many } \\ & \text { paskets of fruit, better fruit, and tends to pre- }\end{aligned}$
ont. glutting of markets. Use all labor-saving
$\begin{aligned} & \text { uachinery in cultivation. T.essen the cost of pro- } \\ & \text { luction, increase the crop in quantity and quality }\end{aligned}$
h. best way you can, and sell it right. - From
address by T. A. F
$\begin{aligned} & \text { and sell } \\ & \text { arrand befo } \\ & \text { Meeting. }\end{aligned}$

## POULTRY.

Broilers.
 anatan 4.4

$\qquad$
$\qquad$

more expensive to rear than those hatched later,

Three drums of desiccated egg into Maryland by a Chicago Coompany shipped been condemned and forfeited under a charge of
$\qquad$
THE FARM BULLETIN.

## Farming in Waterloo

farminidence and progress are the watchwords of iarming in the grand old County of Waterluo,
Ont. Peopled by a steady-going type of iarmers, unfinas been in their methods somewhat of the confront them as obstacles to be overcome, and stepping-stones to success by processes that make dry. They have confidence in their business, in the soil, in intelligent methods, in good cattle and horses, in clover, in alfalfa and roots, in corn
and silage, in unity of effort, and a properly-educated youth. In area, it is not a large county its soil is strong, and its farmers are remarkably advantaged in having at their doors the consumers for all sorts of products needed by a splendid
bunch of towns like (ialt, Berlin, Waterloo, Ayr. Preston, Elmira, Hespeler, and several other
places, crowding along in population, most of places, crowding along in population, most of
them humming with manufacturing and other enterprises. Several of them will shortly have
their position materially strengthened by the advent of Niagara-generated electricity for power and lighting purposes, through the means of the
Hydro-Electric Commission, thus freeing them Hyaro-tiectric commission, thus freeing them private power monopolies, and assuring more efficient service. And when home consumption is
fortified with the strong outside demand which iortified with the strong outside demand which
Canadian farm products are enjoying generally it can readily be seen that undreamed possibilities lie ahead for more diversified agriculture, including dairying, garden products, apple-orcharding,
together with the production of Canadian-grown vegetable, field, root and flower seeds, in which sone sixty-five acres are this year under promising culture near the town of Waterloo by the On-
tario Seed Company. Under such circumstances, and alive to the de-
sirability progress of farming in the county, its municipal and other leaders were not slow to endorse the
proposal for the presence of a County Representa tive of the Provincial Department of Agriculture, and the institution of a.High-school or Collegiate
Institute class in agriculture, under his direction. The choice of location fell to Galt, in every way a which any city might well he proud, including, as domest excellont departments in manual training, agricultural feature The excellence of the build-
ing und pequipment; commodious halls, adorned with portraits and other pictures calculated to a waken the student-interest and patriotism: the
spacious grounds overlooking the beautiful valley pacious grounds overlooking the beautiva atey tion of the visitor F, C. Hart, B, S. A.. untert
tonk the rosition in June, 1907, and an assistant. quired hy March, 1909 , to cover the steadily-dereloping work. The public eye looked for the
lericultural class. hut this was the slowest to de-

riculum, methods and teacher-training puth schools all tend to gravitate the rural On the part of the local authorities professions. agement has been shown the work, every encour- $G$ alt, and from the first a fair number have taken up special subjects, such as entomology, horticulture, dairy-
ing, demonstrations in buttermaking, ing, demonstrations in buttermaking, milk-testing,
etc., being given in the school. Three have been taking a full course, preparatory to secondyear work at the Agricultural College, Guelph.
The classes have varied from 8 or 9 , to over 20 , The classes have varied from 8 or 9 , to over 20 ,
and a dozen or more have been going out for and a dozen or more have been going out for
stock-judging in cattle, horses, and other classes, stock-juging in cattle, horses, and other classes,
two
and taking agricultural subjects have been drawn from
those in the Collegiate commercial course. In time, it is expected that the outside work of the County, Representative in outside work of the
farmers' clubs and she schools, farmers' clubs and short courses will develop atronger classes in the Collegiate Institute. The
attendance at the Ayr, Elmira and Galt short courses ranged from 70 to 450 . They proved popular and useful. Some orchard-demonstration
work in spraying and pruning and fertilizer and work in syraying and pruning and fertilizer and
other plot trials, including about an acre on the fair-grounds at Galt, have been started, and special attention given to alfalfa culture, which,
during the past wo during the past two years, has been bounding Last year, the pupils of a group of three rural schools had a homegarden competition in growing grains, vegetables and flowers, weed and insect collections, and descriptive essays for individual
and school sweepstake prizes, winding up with a grand union school fair that, proved an enthusing success, as described, by Prof. H. L. Hutt in "The Farmer's Advocate." This year, six rural schools
near Ayr have also inaugurated a similar scheme. and the results and part of the crop will be shown at the local autumn horticultural show. The interest I and love for the country by the young people The farmers'-club movement is a notable feature of Waterloo agriculture, about a dozen clubs being in existence. They hold meetings at the homes of
inembers, discussing farm and other topics, conduct inembers, debates with other clubs, and have union ineetings with Women's Institutes; establish seed and stock judging courses: promote the formation of rural-telephone lines; secure rural mail delivery;
railway sidings for the use of members ; conduct plowing matches; inspiring enthusiasm, good fellowship, and altogether a new and higher-class anirit among the members in relation to the busi-
ness of farming, winding up the affairs of the season with banquets that would make any town festivity look to its laurels.
A Waterloo field once won renown for British A waterion field of the Canadian Waterioo like scores of other counties in the premier Province, are to-day covered with the luxuriant green that tellis of the triumph of intelligence over the soil for the comfort, sustenance and happiness of
men. This is the victory of peace.

Death of W. H. Hunter. The demise of william Henry Hunter, which
occurre, nt his beautiful home, The Maples, in orcurre:1 nt his beatiful home, The Maples, in
Durfen in County, Ont., on May 24th, in the 74 th Wear of his ake, has removed from the ranks of Province a prominent figure. Ile was a man of farm thatacter, a striking personality, a successful mure-hrod Hereford cattle, and a successful exhibitor at the principal fairs in the Province. He had acquired a large tract of land, and had acan active interest in puldic affairs, was an effective Matform sneaker, and was influential in the dis-
fords at the Canadian National Exhibition, at powdered carbide is emptied into the container, male animal of the freed, and won the first prize and the cap screwed down. The vessel is then
mhaken, and the carbide comes into contact for the best herd, repeating the record at the

Our Australian Budget
Vegetable matter in wool is a nightmare to comes to Australia in almost every newspaper ; i rises like a spectre at every market-place. Hun dreds of men have puzzled their brains to supply
a solution. Conferences have debated the mat a solution, Conferences have debated the mat
ter ; scientists have wrestled with it. Yet the
jute jute-in-wool spectre remains. Just now there is ray of hope. A Melbourne firm has patented
plan which they expect will get over the difficulty plan which they expect will get over the difficulty
The packs are treated with a solution which it claimed will not only lay the fibre and leave smooth surface, but also permeate the whole pack and thus stop any extraneous matter of any kind
gaining entry into the wool, even although ther may be cuts made while sampling the bales. great feature is that the ordinary packs mat
used, instead of the expensive paper-lined pack
which the London committee sugrested which the London committee suggested, and the
cost of dipping them in the solution will not be excessive. The ondy danger is that the company may take advantage of the discovery, and put up the price inordinately, which would be a great
pity. The greatest trouble now is caused by the rough surface of the inside of the packs. Often when the bale is stripped, the exterior of the wool which have been forced there by the dumping process. It has been proved beyond doubt that Queensland was justified in passing a regulation a few glassware used in butter factories and dairies. It was at the time found that many of the measures and instruments were atbsolutely erroneous, many robbing the farmer, and many the factory, while
the thermometers told the wrong temperatures. Ac cording to the Department's last report, despite
the knowledge the manufacturers had that the regulation was in force, condemnations were mad
 where the systerce of insplection is in in a corce, what
must it be where there is no Victoria lately care is no out occk?
scheme of recruitgreat success. 1 efit to their own derices, many he ranks of the criminal classes. Some of them
were veritable Ishmaclites A Andical examina-
ion before entr. into the institution showed the and half-starved. Kegular hatits and good food,
of course, worked wonders of course, worked wonders. I'hysical dexelopment
"as rapid. Fach hoy has a seplarate roome. and
is provided with whipment of the best. The aste displaved hy them in the adornment of their
tuarters :umazes strancurs The lads ate trained
an the tariouc and farm. It vine grafting, they turned orchat as
nany As 1, 500 graits in a day carh. Regulay ngs. and the hoy who formerls whent to work
istless and sulten regarding his task wion which might have do proper in it. The ant int pocket is turned to nother ends. The lads whim
have gone out of the institution at the age of in
ears have all done wall. and some of them that sheer, entered in the oflicially in Australian flockbooks Several of the Australian states are now grant
ing monetary help, to farmers, for silo-building. The marmer must agree to grow the proper kinds of
crous, and conduct ensilage onerations as advis, d.
The wit-wool problem is a source of enillows

Crops in Essex.

## THE FARMER'S ADVOCATE

N. S. Government Promoting Underdrainage
The officials of the Nova Scotia Agricultural courage the more extensive underdrainge to enfarms of that Province. Many of the best farm and many other are. tur the vast the Province are sadly in neod of servable Tands a drainage. Climatically, Nova Scotia is splendidy adapted to a high type of agriculture, and the
soils are suited to almost all crops the in any other part of Canada. The one drawback
is that, owing to the cold winds in the early spring. speding to the north, some two or three weeks later than, for this is partly ofsset by the more humid conditions ot the summer and a long fall season, yet, on wet,
heary lands, it makes the growing season too
short for need of underdra nage, it will, therefore, appear is even more urgent than in the inland Provinces,
At the 1910 session of the Legislative Assembly in Ifalifax, an act entitled Legisative Assem- Thile. Timthe like act for the Irovince of Ontario. Accord ing to this act, municipalities are empowered to
borrow money and to advance it to furmers who purpose underdraining land, on a basis of between cluites inturast and sinking fund which will redeem the debt in a period of twenty years. This means
that, for an expenditure of $\$ 8$ oo period of 20 years, farmers can have $\$ 100$ worth antage return which may be had frate the percontage return which may be had from this com-
maraticely small investment for, with S10m Wheth of drainage, it is easily possible to increase the crop-protucing power of the land on a given
farm anywhere from $\$ 25$ to $\$ 100$, or more, per minhing fund is to be collected along with the ordoubt if at present there is sulticient public senti-
 the Agricultural college at Truro has advertised dram. All of farms is is required of farmers tho wish anpenses and made is that they pay the travelling What is at present, howwer, proving the most Stectice means of encouraging underdrainagi, is Thich has bewn in operation some four weekse of ic tating contracts to dig drains with this mad tw hand. "ith the added advantage of the "ork
tring arcomplished with quik despate The
machine is unier the management of ti. Fuller machine is undier the management of 1 . L. Fuller,
cuperintendent of Agricultural Societies.
Durmperating in the vicinity of the College, fut in a Where it number of farmers have given contracts
whe the draining of their land. For the present war, at least, the price of drainage with this lus is the country's gain. phrase, The mat in inea in ihle during the ensuing summer, and thus af-
inrd an extengive dumonstration of the advantages
of the process. Should the College-operated machine prove popular, it is hoped that it will pave

Irish Interests Anticipate Removal of Embargo
A. A. Bickprelike, Canadian frad. in a report to the lepartont of Trade and commerce at ontawa, says bargo which the lisitish covernment imposes
canadian cattle cannot much honger be maindanadian cattle cannot much honger be matnmod, and that its removal in sore the Irish cattle
$\qquad$

An Orchard Survey in Ontario The Ontario Department of Agriculture is mal the Province, working along much the same lines as the investigations carried on by the States of
Seu York and Oregon, with some chances in schedules mation obtained ontario conditions. The infor On orchard and other occupations in the respectin
districts. At present, the penartment ingtricts. At present, the Department is publish pected to prove of considerable value, not only ve the growers in the localities surveyed, but to
those in all parts of the Province. townships. The men enge is bed ing the work make by In every case. If he is not at home, they retuin ing information, they are all addition to obtain information along certain lines, and are thus able to aid the fruit-grower. The following men ar
engaged in orchard-survey work this season
 Northumberland County Vernon King and F. M is inement in the Niagara District. Mr. Robertsert ning-factory crops, which are largely grown in Nriagee Edward County. The two men in thi last year in the western part of tho peninsula They will, of course obtain information an resula In addition to these five men, surves is being made by Mr. Waddle, of the southern part of On of the orchard country. He is workine somewhat different lines to the other m-n, us the hepartment had sent him in there to make a per dea of civine them information about spraving and pruning. He has already conducted a numbee of demonstrations, and is following this up, as stated ahove, by visiting each man personally. It
was thought that he would be able, incidentally to obtain information such as is being gathered in these ot ther sections. so

June Excursions, 1910
$\qquad$
 Wednsday June 8-G. Simcore F. Huron, Wel
land IT. B. 1. Imurham Prince Fdward and Hating Masting 1). Ituron. Suturday Jume 11-1 incoln, Welland Tuesday, June 1.1.-W. Middlesex. WI. Kinnt, 1 Wiednsoday, June 15-F. Flgin. W. York, ()wing to the enkugements of the Prime MinThursdas. June 16--vand W. Victoria. ister, Iton. W. Whe Fidding and other members ol



 Wednestay, June and West Inurham. Watorloo. Peel.
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## Coming Shows.

## athat horse how, at olympia, $1.0 n t o n$

 Fanland, June 6 th to 16 th. . Royal shociety of langrand and heming less, in proport on to consumption, earh Provinciul, at Cabary, fune 30 th thal organizations. The. ©o, of 1919 amounted Highland and Agricultural Society, at Dumirien
 h to fieptember 12th. Pros
Toronto Fat-stock Show

The King's Plate Winner
The King's Plate winner at the Woodbine race ourse, Toronto, on May 24th, 1910, was the cy Farm Stables of Hon, Farmer, from the Valrother William at Hamilton Hendrie and his bred by Joseph James, Windsor Ont His sir The commoner, and his dam, Placena, is and also of Loyalist, son of Sterling. Parmer, King's Plate race, were purchased as yearlings, to rether with their dams, by the Messrs. Hendrie. and a quarter. Time, 2.12 2-5, track slow. Value ) first horse, $\$ 3,090$, and the firty guineas : sec

The report that a combine to force up prices denied by the wholesale meat trade of Toronto is increased oprices are but the working out say tha aw of supply and demand. They have agreed however, to cease giving to retailers perquisites, pound tare on every quarter of beef, as hats until on, they say, why concensions such as these hould be given in Toronto. When they are no

isritish Columbia is said to conduct the mos Country in the world. It is said that, of any
his, the Irovince is his, the I'rovince is practically immune from inher san lose scale was to be found on careful in spection in the Okanagan and Kootenay distric ompe A bonfire of 30,000 insect-infested trees ast week in Vancouver by the Provincial Fruit

Prof. B. E. Fernow, Dean of the Faculty two members of the faculty and three students, as gone to complete the "ork of forest survey of cmployed by the Nova Scotia (iovernment to have work done, and last year the western half of wis year the survev of the pactern expected tha Bue Breton will he completed half, including under way.
"m. Whyte, second vicc-president of the C. Thinks that Western farmers should engage
fater hogs. At present prichs of meat, he says, poor-
frade or damagul what could be made worth wrades, and ford to animals than is got for the best b.e furnished.

Protuction of arphes in the I nited states is according th statistics gathered by commer
orranizations. The ron of 1909 amounter at 2.,
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THE FARMER'S ADVOCATE




MARKETS
Toronto.
ive stoc Aoth, weeatite coumprised Mon cars, con caves, is horscs. . The quallyy of the 57. $\%$ \%.70 to


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The Windrow

## 922

## THE FARMER'S ADVOCA'TE

Hope's Quiet Hour.
Why People Do Not Attend Church.
Dear Hope,--1 have read the letters
concerning the above, and have been very
much interested in much interested in the topic. People
say, "Well, I think I can stay at home
and read the Bible, and be just as good and read the Bible, and be just as good
as the man that goes to church." Nine times out of ten, the man that says that
doesn't read the Bible, he reads some thing else, or some other work takes up
his time. It's only one of his excuses. That man is starving his soul, 'some day
he will wahe up and be hungry for his old love for God; he with wonder where God says: "My spirit will not always heard of a man who, Not long ago, I heard of a man who, in a series of spe
cial services, night atter night, was al
most persuaded to make a stand for Christ; but the night he had the hardest
struggle, he refused again. The following night, on invitation to tiy again.
he said. It don't want to he said. "I don't want to go now
Nothing within we says 'Go ', When
we work six days in the week, surely wo we work six days in the week, surely we
can take one day for Christ.
"But.". y yu say. "we don't have tim..
on weekdays for picnics and sports or on weekdays for picnics and sports or
pleasure of any kind, we are so tired on
Saturday night we don't feel like Saturday night we don thel like going
to church on sunday." How much more
rested will you feel on Sunday night with all the pleasure you hid during the
day? Did it rest youl any? Did it day? Did it rest you any? Did it
renew your strength for work on Monday
morning? If it did. one will try to hinder yon. If anything
onould be a pleasure, 1 think it would be
witan GOD that would renew something stren both bodily and spliritually, for the com
ing week's wer . It would help us on
our way we could
$\qquad$
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To-day if Ye Will Hear His Voice.


## tead


seems such a little sin to negleet (:odd lowshin, with Him, spiritual food to
obtained from abtained frow trayer, Bible-reading
sacraments, und other means of kract sacraments, and other means of krace
It is sulu a common sin. and men are
apt to sholter themselves hy the excuse




THE FARMER'S ADVOCATE
does not take long to convince any- ride ssated behind a horse having



Current Events

The revolt in China
and a sco
vastated.
Count Jacques de Leesseps few across the Channel irom Calais
Dover last week in a momoplane.

It is probable that a special tumn session of the Irritish Parliament
may be called to deal with the gues-

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nations. What a tremendous influen
loonks have on the reader's mind. If thin
 ..... May 26th, and ..... to form a new ciovernment. He is a
hrother of Hon (Iiford sifton.
Lend a Hand
end a hand to souts in the shadow

1. nd
unspeak
an
Lend a hand to th
narrow ind cratuped.1.enil a hand to the boy struggling
bravily to culture his mind.bomes are cold and repeeding.Lend a hand to those whose surround
ings ure steadily pulling them down.Lend a hant to the prodigal siseter
Her life is as precious as that of the



## Get Acquainted with Diamond Dyes and Save Money.

This article is For, we want to tell you on
great saving in your dress bills.
Time and again, you will find on sale in many of the stores articles such

The only reason for the low price being that the shade is out of fashion-
the goods may be a little soiled.
Quite a saving can be made by buying such things, and restoring the color with Diamond Dyes, or you can change the color to any one of the new shade

Other Uses for Diamond Dyes
There are a great many other uses for Diamond Dyes, and each one will
save you money. For instance, look over some of your "old things," Most of them are no
really " old " - they re a litlle faded or soiled, or the color may be out of fahhion. A bath in Diamond Dyes will make them all look like new again
Faded ho
with their use.


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shade desirc

You Take No Risk with Diamond Dyes

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the truth about the use of dyes.



 Which aike op the dye fowly.
Diamond Dye Annual-Free

THE WELLS \& RICHARDSON CO., LIMITED
"The Farmer's Advocate"
The Ingle Nook


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Linolenum should be very frequently
rubbed off with a cloch yust moist with


but the turniture polishes sold in harth
wnre stores have beern testred.
$\qquad$



## PEASE "ECONOMY" furnace

## (Warm Air).

No stooping to shake
the "Economy" Grate
No dust in the cellar
or the house. Write
for booklet - "The,
Question of Heating."
Pease Foundry Company
Toronto - Winnipeg ${ }^{2339}$


## BOVRIL

is the concentrated goodness of beef.

It is always the same.

Just Six Minutes to Wash a Tubful! This is the greatest washer the world has ever knorn. So easy to run that it's al-
most fun to work it. Makes clothes spot-


## Cocsopzis

are different from and better than any other chocolate confection you ever tasted. Maple Buds are not made by any other concern, as the name and design is the name on every Bud.

The Cowan Co. Limited,



Easy Stencil Patterns.

## World's Greatest Separator

GOOD NEWS<br>For Cream Separator Buyers

## STANDARD CREAM SEPARATORS

ARE NOW ON THE MARKET

Pronounced by dairymen and cream separator experts to be the best. Free catalogue explains all. Write for one to-day to

THE RENFREW MACHINERY CO., LIMITED, RENFREW, ONT.


## STICKNEY

Gasoline Engine

CANADIAN
FARMER.
not ${ }^{\text {It is simple in }}$

LOOK HOW COMPACT.

Ontario Wind Engine \& Pump Co TORONTO, CANADA
YORKSHIRES


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 tengthwses struan until hot, place on hoo
buttered toast. brush with hutue


 and one thens whem whit ineme turiuly
 $A$ Nuat Mish-rum Man any and bet and when hum involver
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 Miscellaneous.
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Ans.- 1 .is.
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PUTTING PIGS IN CLOVER



THE FARMER'S ADVOCATE.

Mr. Farmer, You Surely Want the Best! Nothing Less Should Satisfy the Progressive Farmer.


widely known and ung maching is PLANET JR. NO. 8 guarantee this machine the best made
and unsurpassed for general effiiency, while it is veedingly strong, sin ple, accurate and posi-
tive in all posion ve in all positions.
Our price, deli verec
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thaser's
KENNETH MCDONALD \& SONS, OTTAWA, ONT
TENTH ANNUAL GALT HORSE SHOW bigger, BETTER AND MORE BRILLIANT THAN EVER. DICKSONPARK, GALT UUME 9, 10 and $\$ 3,500$ in Prizes. Single Fare on All Railways. $\$ 3,500$ in Prizes. Single Fare on All Railways. JAS. CROMARTY, $\qquad$


QUESTIONS 'AND' AMSWERS.

> Miscellaneous

LICENSE TO $\overline{\text { COLLECT }}$ BIRDS

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\begin{aligned}
& \text { Would you kindly inform me the ad- } \\
& \text { dress of party I would apply to for }
\end{aligned}
$$



Condensed advertuements will be ingerted under
this heading at wo cents per orod each inser
tion. Each initial counts tor one word and

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& \text { Would you kindly inform me the ad- } \\
& \text { dress of party I would apply to for } \\
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& \text { cars }
\end{aligned}
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& \text { license to collect specimens of birds } \\
& \text { eggs. } \\
& \text { Ans.-Permits for the collection }
\end{aligned}
$$



$$
\begin{aligned}
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& \text { birds eggs and specimens are issued by by } \\
& \text { the Deputy Minister of Fisheries, Public } \\
& \text { Works Department. Parliament Buildings, }
\end{aligned}
$$



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\begin{aligned}
& \text { the Deputy Minister of Fisheries, Public } \\
& \text { Works Department, Parliament Buildings, } \\
& \text { Toronto. }
\end{aligned}
$$


















WHITE WYANDOTTE EGGS Yor hatching from 2 pens of grand
winter layers. $\quad$ Large white birds. $\$ 1.00$ and $\$ 1.50$ per $15, \$ 4.00$ and $\$ .00$ and $\$ 1.50$ per ${ }^{1} 5, \$ 4.00$ and
$\$ 5.00$ per Ioo.
G. AMOS \& SONS, Moffat, Ont
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$\qquad$G. AMOS \& SONS, Moffat, Ont


## Massey-Haris Side-ddlivery Rake

 and Massey - Hariis Hay Loader making a windrow from which the loader takes the hay and delivers it well onto the load. A load can be put on in a few minutes with a boy to drive, and a man to distribute the hayThey Save Many a Crop Which Would Otherwise Be Ruined by Rain or Exposure.

## MASSEY-HARRIS CO.,LTD.

TORONTO, MONTREAL, MONCTON, WINNIPEG, REGINA, SASKATOON, CALGARY

Makers of a full
haying tool
MOWERS, RAKES,
LOADERS, TEDDERS


## VANCO Lead <br> Modoin Canade

Destroys All Leaf-Eating Insects "VANCO" Lead A rsenate will kill $95 \%$ of Codling moths where Paris
 For potato buts it is far surer than Paris
vines muct onger, especially in rainy weather. "VANCO". Iead Arsenate contains $15 \%$ to $16 \%$ Arsenic Oxide and not over $4 \%$ moisture average. It is made by expert chemists and neve
ouality is abolutuely reliable. It never fails to kill the insects, and never burns the foliage. Because we make it right here in Canada, in large and well-equppece laboratories, we are able to offer you what orers are asking.
favorable prices. Compare these with what other In 500 lb . barrels... 10 c . per lb. In 100 lb. kegs... 11c. per lb. [In 12 f lb, pails. $\ldots 13 \mathrm{cc}$. per Ib . In "VANCO" Brand you get High Quality at Lowest Price. We ask
for business not on promiles, but on records of Government Analyses

Club your orders and save on freight
Chemical Laboratories Limited Van Horne Street, - - TORONTO.

Please yention The Farmer's Advocate

Rates for Money Orders \$5.00 and under
10.00 to 30.00.
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 EARMS FOR SALE BY PMILP \& BEATON: FARMS FOR SALE BY PMILP \& BEATON
Real-estate Brokers.

 onner
nod
home
home



 Philo \& Reaton. whiltevale. On A young artist wnce perssuaded Whistle
$\qquad$ Whister's eyes twink iwd dangerously
What is worr
His Friend Said "If rries Don't Eilp or
Cure You I will stand The Price."

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| $\begin{aligned} & \text { London, Ont } \\ & \text { J. L. Lachance, Ltd., } Q \end{aligned}$ |  |
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We do with our boys? seems to be sat-
sfactorily answered in the following ad
a Faringdon roud butcher's shop:
throw away all YOUR FEARS

Backache, Gravel and Rheuma
tism Vanish Before Dodd's tism Vanish Before Dodd's Kidney Pills
Proved Once Again in the Case of Mrs. Fred Krieger, Who Suffered From
Palmer Rapids, Ont.. May 30--(spu-
ail.)-The thousands of Connadians why ive in daily terror of those terintle forme
o Kidney disease known as Bachache rravel and hhenmatism, will be deerly
terested in the story of Mrs. Fred Srieger, of this plac". idney Disease,
lackache.," Mrs. tarted throuk
head ached, I


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'Reanym ang
odidis KidneyAfter using a fews, led me tho buy they worne

THE HARMEHS ADVOCAIE

GOSSIP.
Sale dates claimed June 7th.-At Guelph, Harry Smith and
others; Shorthorns.
June 8th. -E. Jeffis \& ©on, Bond Head, June 8th.-E. Jeffs \& Non, Bond Head,
Ont.; Shorthorns.
June 15th.-R. H. Reid \& Sons, Pine River, Ont.; Shorthorns.
Risth.-R. H. Reld
Oficial records of 168 Holstein-Friesian
cows were accepted by the American Hol Cows were accepted by the American Hol
stein Association, from April 30th to stein Association, from Apris
May 11 th, 1910 . This herd of 168 ani-
mals, of which over one-half were heifer mals, of which over one-half were heife
with first or second calles. produced
seven consecutive days 68 . 18 los. seven consecutive days, 68,718 lbs.
milk, containing $2,414.216$ lbs. of butte
fat milk, containing 2,414.216 lbs. of butter
fat: thus showing an average of 3.51 pe
cent. fat. The average production fo
each animal was 409 lbs. of milk. con each animal was 409 lbs. of milk, con-
taining 14.37 lbs. of butter-fat; equiva-
lent to 59.4 lbs. or 28 quarts of milk taining 14.37 lbs. of butter-fat; equiva
lent to 59.4 lis. or 24 quarts of mile
per day, and over 16 it lis. of the bes A. F. Mc: iven, of st. Thomns, (Int.,
reports the following salles from his (Ilyd. report stud: To Wm. Hyland, Fssex,
Fark Wis.
Ont., the imported Shire mare, in foa lurg starlight [327], an extra-qualit,
mare, of great size and the best of ac
tion; also the imported Clydestale mat Jennie Gibb [21281]. and her ten-days-
,ld foal, by Jas. Kilpatrick's Hiawatha
horse, Manaton. Thesee are a big span
of Marea of the right tere
To Wm of mares of the right type To Wm
Travis \& Son, Talloteville, the two-year
old fill, Rosie kerr, sechnd rize a
Stirling. Sostland, and third at Winter old filly, Rosie kerr, second prize
stirling. Sootland, and third at Winte
Fair, GuelphtaAtew good mares, fillie.
and young stallions nre on hand, an another consignment expecti-d end of
July. JERSEYS SELL HIGH.
In the dispersal sale of W. Getty
herd at Athens. Tennessee. May 19th the entire offering of Th head brought
average of $\$ 254 . .3$, the highest pric.
S710 leing reali...,
and
The
was
 Willowdal., Importin, Compny at Von
dalia, all., May 17 th, the average for 9
head was $\$ 333.86$. The highest price o

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|  | herd, will her thad to welcome, motJousey fancions and brecdurs, ime |  |  |  |
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|  | The Brampton farms include over |  |  |  |
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## QUESTIONS AND ANSWERS.

 VeterinaryUNDESIRABLE CONFORMATION The bones on the outside of the hoch
of a Standard-bred colt project a little beyond the tendons. I have been ad
vised to rub with iodin. to reduce the bones. Ans.-This is hyperdewclopment of th
cuboid bones, and does not constitut unsoundness, although, from a certain
point of view, on either sidc, there may appear to be a curl. Nothing can
done. The conformation is congenital
and the size of the duced. Any person conversannt with th
diferent conformations of hocks, will a once see that this colt is not unso
at the same time, no dout, many wo
be harsemen will say he has curlis.

DEVELOPING ACTION weight of shoe should he wrue it. What
2. He puddles 3. Would it be wisin this efict? Ans-1. The weight of show with which
a horse woll perform hest difters with
different animals.

Miscellaneous
WARBLES IN HEIFER.

HEAVES NOT INFECTIOUS


## -

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 $\qquad$

$\square$

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QUESTIONS AND ANSWERS. Veterinary
enlargements on knee Mare 19 years old has a swelling o
the bones of knee. The knee has become the bones of knee. The knee has become
quite large and hard, and ts becoming stir. Ans. -This is a disease of the bones of nited. It is called anchylosis. All that
 alay the infammation and pain, but the
joint will remain more or less stiff. ac
and cording to the number of bones involved.
paralysis
$\qquad$
 et, lay down and got up several time
nd then was unabie to got up. She han een down three days. Would it be wise
sling her ) She has been purged and fiven condition powders. She eats well Ans,-This is paralysis, probably duw
to disanse of the spine, but may be fron
 cause, she may not recover. Do not use
Slings.
Feed on tor sot, easily -digested
sol Mod and give two drams nux vomica
hree times dally. Keep comtortable ais
hosilite trou sidd
hours.
Lame mare
I bought a a 1 -year-old mare, lame
hind
leg, but the

 when troted.
Ans.-It is hard to diagnos. these casee
 the other hand, it may be hock lame


 SORE IN FRONT-IUMPS ON
 The Wacksmith took a corn "ut of he
eel, under shoo. If marbles in the skin of her shoulder
inder the skin the
 abain, on the tarm. Have her shod onc
sound
svery four wecks, and have the corn wwll

 as or other materina when not work
$\qquad$


Miscellaneous.
SAM WITH FLOCk
$\qquad$
$\square$


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Whersere there are eickly people with Weak hoart Milburn's Heart and Nerve Mra. Wm. Elliott, + Heart Troublof "Ing is with the greatCured. ${ }^{4}$ est of poteasure 1 write and Nerve Pills. I suffered groatly from haurt trouble, weakness and smomothering
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QUESTIONS AND ANSWERS Miscellaneous
SELECTING BREED OF SHEEF SELECTING BREED OF SHEE
-STRAWBERRY CULTURE. 1. Whether are Shropshire or Leicester
sheep the best to keep? I have had no experience with sheep.
2. What is the best way to care fo strawberrles the first year ?
A NEW BEGINNER. Ans. -1 . There 1 is no best breed Aheep. Both those mentioned are goo
It is well to keep the same breed as commonly kept in the district, as buyers of stock sheep are attracted where ther are numbers to be procured.
2. Cultivation apo strawberries are planted, and continued throughout the summer. Some han
hoeing will be needed also. hoeing will be needed also. Blossom ought to be pinched of the first season,
so that strength may go into runners feet to matted rows to a width of tw cultivated. It pays to place rumne
where they are wanted as they form, the earlier the plants root, the bette
will be the next season's crop. CORN FODDER FOR HORSES. My farm is a rented one and small.
The meadows are very badly overru with wiregrass, and $I$ am very scarce
hay for the coming winter 1. Are cornstalks injurious to horses
Some say they are, and others claim to be able to keep horses fat on them. 2. What feeding value has fodder cor
sown thickly, chiefly for a bulk of feed
nommped compared with timothy hay, for horses?
3. What feeding value has hill 3. What feeding value has hill cor
sown thinly, say an average crop, with grain on, tor hor hes?
 2. Prof. Henry, in "Feeds and Feed
ing," says that for brood mares, idle
horses, and colts, fodder corn of good quality will be found an economical sut stitute for timothy hay. It should not
we think, be fed alone. This also shoult
be considered, that horses will aat leaves and softer parts only. But Pro
Henry Henry thinks that, admicting this, the
much greater tonnage of fodder corn ove
that of timothy hay produced from a given area, makes it a more economical
food. Few horsemen feed corn in this way
3. Few though some ears of corn with a ration
of oats do very well, and the stalks may
be fed APPLE PACKING: WHO IS RE A, a local applobuyer, sells B, a dis 1,les yet unperator, and und unought. The
contract stipulates that the price agreed upon, $\$ 1.75$ per barrel, may be increased
15 c . per barrel, if the price to be patd
by A to the farmers is higher than he bargain. The contract stipulates, also that the apples shall be f. o. b. at this
price at stations named; and that B s
$\qquad$ vacking and attend to the shipping. In case of fraudulent packing, who is
responsible under the Inspection and Sale Act (Frult Marks Act)? SubSCRiber. Ans.-The Dominion Fruit Inspectors
do not interpret the law nor examine
lo contracts, but in case of fraudulent pack-
ing, they recommend a prosecution against
the person whose name appears upon the In this particular case, B would be
held liable under Section 321 . A would be liable under Section 320 ,
or not placing his name and address
his A would be liatle also for an addi-
ional charge under Section 321, it B
$\qquad$



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Stonehouse Ayrshires Not


QUESTIONS AND ANSWERS Miscellaneous．

DITCHES AND WATERCOURSES Where can garding the laws of the ditches and watercourses of the Province of Ontario？ 2．Is there any annual tee or expense the owner of mallbox，except the first cost of bor ？ D． $\mathbf{M}$ ． D ． Ans．－1．Consult the Ontario Statutes． Queries addressed to the Department of Agriculture，Toronto，or to Prof．W．H． swered courteously
2．There ts no annual fee in connec－ tion with rural－mail delivery in Canada． SILO QUERIES．
1．How many tons of silage would a silo 14 feet by 80 feet hold？
2．How many acres of corn would it take to fill it，corn growing very heavy 3．How much plank would it take to build a stave silo of this size

Ans．－1．If silo were filled to the top with settled 5 ＇age，it would contain，
approximately， 120 tons．${ }^{\text {Filled to }}$ to a depth of 25 feet，there would be 100 tons or over．
2．From five to elght acres of good
corn would fill it． corn would
3．If made of $1 \mathbf{t i n c h}$ plank，about 2，000 teet would be needed．
4．The cost for material would be
about $\$ 80$ for lumber，and $\$ 15$ to $\$ 20$ for hoops．
MILLET FOR HAY－NITRATE OF SODA ON MEADOW． cut for hay． 1．Would this plant likely give as large
an amount of fodder as peas，or vetches and oats，would
2．Is millet hay relished by horses， cattle and shoep，and is it a safe feed for 8．What are the best varieties，and
what the best methods of sowing，and quantity of seed per acre？
4．Would an application of nitrate of soda on meadow land and forage crops
increase the yield where the land is tairly fertile ？ 3．How much would you advise using
per acre，and when should it be applied？ Ans．－1．In favorable seasons，millet
will give large ytelds of fodder，as large probably as would peas，or vetches and
oats．It is not usually sown in place of thes，however，but as a catch crop
which can be sown late．Millet may not sult Prince Edward Island weather cones
ditions as well as those in the Province
where the summer is warmer．It delights in warm weather．${ }^{2}$ ．Mllet hay ts relished by stock it cut shortly after it is headed oul， unpalatable．It is a perfectly safe feed
or cattle and sheep，but instances of trouble have been noted when fed to horses as thetr sole roughage for length－
ened periods．
Fed in moderation，and
and 3．Either common，millet or Hungarian grass would probably suit
ditions as well as any．
vielding varlet ditions as well as any．A very hea
yielding variety，the Japanese Panicle
late in maturing．Sowing is usual done broadcast．by hand，on land that
has been worked into fine，smooth condi－ ion．Cover the seed by harrowing and the amount usually sown．
4．An application of nitrate of soda to meadow land or forage crops would cer nete fertilizer，that is，one contalning
，hosphoric acid and potanh，in addition
and to mitrogen，would probably be more
aficctive and economical．The potash
and ihosphates，howewr，should have spring．
5．From 160 to $20(1)$ pounds per acre
，nitrato of sodn is recommended．Make Witrate of anplications，the first atter growth

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BOOK REVIEW
AATEST BOOK ON APPLE CULTURI in apple-growing is becoming to be mad more apparent to even the casual and server. The splendid returns casual ob- that have
heen made the last fow years from the
an an old orchard where the trees were fory merly thought to be littlo more than
cucumbers of not only the owners of the orcharoused which may be made fromidthem the profits turned to orchard planting thousands investment in the country. Ant a such afe
in and time when all concerned are eager at at
learn just how the most money cun made out of orchards, both old an
new, nothing could be more timely tha
 for the new book a hearty reception by
the appla-growing public. The anthey Iong and variod experience. The as a practict's
fruit-grower, as editor of the Canadion tario Fruitst, asowers secretary of the on on
secretary of the Board of Control and a Ontario Fruit Experiment Stations, en such a subject. In In this work, the whole
field of applenrowing hathority on Aetd of apple-growing has been covere
in a comprehensive, yet conciso in a comprehensive, yet concise and
practical way, and much information is
given of inestimable value alike to the
novice and the experienced grower. The lirst contains twenty chapters, and is in
tended as a complete guide to all mat fers pertaining to orchard management
from the buying of the land to the mar fully-prepared, detailed descriptions
several hundred varieties of apples, author many years of patient and careful
and ank ind is enriched with a large num-
work of excellent
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TRADE TOPICS
Under dateonimon, of Brockville, Ont., Hackns: "I have a little imported Nso ustd th. Resublimated Iodine with asess. 1 aum wased to be used in old (able .". Alsorline, at druggists, $\$ 2$
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Our New 25c. Book is a most interesting and instructive book for darry men. It tells the truth about the two standard methods of cream separation. It is the most unbiased book on separators ever published. It gives many pointers wortl dollars to you. You can procure one copy of this book if you will fill in, cut out and mail the coupon us promptly. Extra copies are 25 c . Don't miss this new book. Send the coupon immediately. Send it by next mail.

## Important Facts You Should Know about Cream Separators

| cream separator should do in order to Le a paying investment. | corners, slots and crevices that soor get clogged up and cannot be thor |
| :---: | :---: |
| : It should get all the | oughly cleaned cream in perfect con-dition-cream without a taint-cal |
| Socond: It should get the cream | only be obtained from a separator that |
| Third: It should | can be thoroughly cleaned. |
| Fourth: It should savs you work. | Third: The Frictionless Emplre gets |
| Fifth: It should be durable. | per cent. more cream than old |
| Sixth: It should make money for | style methods. The more cream |
| you. | the more money sa |
| , | Fourth: The Frictionless Emplire |
| of these six things it is not |  |
|  | of the time required with old style |
| ing, instead of a paying, investment. | methods. It saves many hours of |
| It is not the machine for you. | k. It almost runs itself. So |
| There are a host of machines that | frictionless that it will run for |
| are claimed to do these six things. But | half an hour after youve completed |
| Empire separators are the only ones | the skimming unless you use our brake |
| that are actually doing the whole six. | to |
| That's certainly a bold statement. It's | Fith: The very best materials that |
| the truth, nevertheless. | c- |
| For example, we will show you how | less Empire. The working parts |
| the Frictionless Empire meets these | urned-true as a die. |
| six requirements. | They fit together accurately, thus re- |
| First: The Frictionless Empire | ducing friction and wear close to the |
| ms to .02 of one per cent. and often | vanishing point. You can judge the |
| less. That means the loss of only one | durability of Empire Separators when |
| pound of butter fat in every five | we tell you that the average cost per |
| thousand pounds of milk, which is | machine has been but thirty cents |
| to the loss of one pound of but- |  |
|  | teen years of service-years of service |
|  | their worth. |
| cream | Sixth: The Frictionless Emplregot |
|  | ea |
| Frictionless E | methods. The cream is first quallity- |
|  | nds a higher price than gravity |
|  | cream. More cream and hisher pric |



Some day you'll Own an Empire

## No matter what machine you buy

 Empire Separator. An Emplre is the only separator really good enough for you. An Empire will to run, save you more time, than any other make you can purchase. There is nothing in cream sopara-tors oqual to an Empire, remember

The EMPIRE Line of Cream Separators All Sizes of Both Cone and Disc Machines

BOOK REVIEW




## 9p Every Farmer's Wife in Canada Ought to Read this Advertisement

F you, Madam, are a farmer's influence to set yous your to roof the house and barn with Oshawa Galvanized Steel Shinglea or these practical reasons:-
Safe Against Lightning Every thunderstorm that passes aver your place endangers his life damage or own, and threatens property But there would the such dancer if the farm building were reoted with Oshawachinglos They protect any building against lightning-far better than any lightning-rod system possibly can

Safe Against Fire And, at certain times in the year, Ae house you live in and the barn flying sparke frome from firemachine: sparks from the kitchen chimney: sparks from pesin locomotives: sparks from forest fires, perhaps. Farmer's roofs catch fire in many ways and you are different from most farmer: wives if you do not dread this everpresent danger. You need not dread it at an when the building. are covered with a seamless steel Improves Cistern Supply Probably you depend a good deal o
cistern water keeps your cistern fuller, and the water is cleaner, tasteless. withont odor. It always is from an Oslia wa-shingled roof. Costs Very Little When your speak tor your husthand abon
this, ask tim tosend for the inst ructiven handsomely-illust rated free look (rallecl Rooffing Right. He will see, when he readt that, that the
shingled reof
 fuaranteed to satisty in every sense for for nothinge. II, will we gets that it wew will piat him wellw tover his houseand harn witl roof, fireproof and lithtninst.proof uarter century, allit that Nill bee

Use Your Influence


0SHAWA STEEI SHINGLES are made of 28 gauge steel specially toughened and heavily galvanized to make them rust-proof. 'Thus they weigh about SEVENTY-EIGHT
 pounds to the square With the box about 88 pounds to the ¢quarc When considering metal shingles always learn THE WEIGHT OF METAI per square offered and be sure that the weight is of the METAL ONLY

Make the weight test yourself. First be sure the scales are accurate. Then unbox a square of Oshawa Shingles and weigh them. Note that the weight averages 78 pounds WITHOU'I TIIE BOX

Don't $g(0)$ by the ionex weight. Some boxes weigh fourteen pounds or more: SA A.pedar

DONT stop when you hav Oshawa-shingled your roofs towards making a house modern or a barn what a barn should be Go on and plate your house in be and out with surface of your barn with set In a word, "Pedlarize" every building on your farm. This way

## Make Your House Fireproof

Finish the interior of every roon in your house with Pedlar Art Steel Ceilings and Side-Walls thousend thousand beautifu designs, the deeply into the accurately and perishable metal They cout ien than plaster in the first place und they will be like new when plaster ceiling or wall is cracked to the danger point which doesh take long as a rule. They ar easily put in place. They can easily be painted and decorated

Make Your House Sanitary
Then, if you surface the exterior of th
house with Pedlar Steel Siding it is isud to simulate brick, rough stone, cut stome Oshawa-shingled ranf Walls and al dence that is mores, nearly fireproot then the "skyscrapers" of the great cities in winter than if it were built of wolld hrick and st it will save its cost in fuel. savings: It will there tree tint inmmer. he ceilings and walls clean with woml and-water. It will be is handsome, sulp, tantial, and enduring proof of your judgment in choosing the modern binild-
ink material-stel Pedlar-made steld
Make Your Barns Safe he mutcidte of youl barin luout we. finush ally and your attle will thrive hetter bitter weather than if they werw Wav-kauge seamlems steel barn. This cont the wind and keeps in the animpal moung th saves in lessened feed-t-bils towst, but lititle: it is simple sime and over: hir it will outlist the building put vols Whharsa. Most important of all. it it with akes barns practicully for the roof . "ntirely free fromi pecry kind

Learn About Pedlarizing py of Roofing Right Rouklet Nolt


GET SEVENTY-EIGHT POUNDS OF STEEL TO THE SQUARE GET \& TWE TY-FIVE YEAR GUARANTEE PHE PEOLA PEOPLE OF OSHAWA


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