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LONDON, ONTARIO, APRIL 28, 1910.
No. 918

# PURITY FLIUR 

Take Your Choice of the "PURITY" Family




Vertical Litt feature is controlled mechan caly-nor ty sheer htorant strength, when raising the cutter hand lever or a push on the foot lever, and the cutter escapes all obstructions. In raising the cutter bar to an upright position, for transportation, the operation is made an easy and rapid one by using the hand lever and the foot lever topether. This automatic control is at the driver's right. It is worked while in the seat. The draft of the Dain Vorical Lift Mower io reduced to the smallest
 trone coilspring heeps the cutter bar down to its work, nd the cutting Power is largely incressed. Gonditions being equal, the Dain Vertical Lith
Mower will catt more hay and cut it easier than anyy mover made. ond
 most mower inv vitment that you could possibly make, from your at sndpoint. The Dain Vertical Lif Mower is designed to make mowing easy, It is
wonderflly strong. It is simply built and easiest handled. Saves your strensth and spares your harses. Dain mowers are made to last and do gladly show you why no other mower is as good. A post card request will
bring our bookle of conclusive reasons why the Dain Mower is the mower ior DAIN MANUFACTURING COMPANY, Limited

[^0]
## PACK YOUR SOIL WITH

 The "Bissell"


## The Safe-Lock fence

The Sate-Lock fence is the latest improvement in the line of
Farm Fences. Farm Fences. There are three
points in which it supersedes points in fences

3rd. The lock cannot slip nor separate in any way For illustration of these thre points see the cut below, show
ing the "Safe-Lock" in detail. 1st. The stays and the locks
are made of No. 9 Hard Wire therefore they will last as long n of the fence. 2nd. As the strands are left
absolutely straight (excepting absolutely straight (excepting
the usual coil), they are stronger the usual coil), they are stronger
by two hundred pounds than a "ring" lock fence.


"Monarch" stiff-stay Fence Our Monarch is easily the peer applied by heavy direct pressure
of all stiff-stay fences. All No hard drawn eteel $\quad \begin{aligned} & \text { at the point of cro sing. This } \\ & \text { heavy direct pressure is respon }\end{aligned}$ will No. 9 hard drawn steel

When making the Monarch, the lock is driven diagonally sible for much of the broken Complete explanation fur Complete explanation fur
nished in free booklet. If you WILL YOU ACT AS OUR REPRESENTATIVE You can quickly work up a big
fence trade in your locality with

Safe-Lock and Monarch Stiff
Stay. fence trade in your locality with
our line of fencing and gates. No other agent has two such
superior and different fences as Our agents expect this to be
their bumper year. Youll be The OWEN SOUND WIRE FENCE CO., Limited Owen Sound,

Ontario.

## "VANCO"Brand

## Spray Chemicals

have a uniformly high strength which you can seldom, if ever, get in home-made mixtures or other commercial sprays. They are prepared by
expert chemists, from the purest chemicals, combined in exactly the expert chemists, from the purest chemicals, combined in exactiy the on promises, but on records of Government analyses and practical tests.
"VANCO" Lime Sulphur Solution
contains a maximum amount of active sulphur, without any uselese
sediment. With it you can eradicate scale, scab, blitht, mildew, aphis,
bud moth, and all parasitic sucking insects and fungii One barrel makes 12 for spring or 50 for summer spray. Price $\$ 8.00$ per bbl., f. o.
"VANCO" Lead Arsenate
kills leaf-eating insects more effectively than Paris Green, sprays easier sticks better, and never burns the for it contain $15 \%$ to $16 \%$ Arseni Price Ioc. to 13 c . a pound, according to quantity

Club your orders and save on freight Write for our Booklet on the use of
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Chemical Laboratories Limited 26-136 Van Horne Street, - - TORONTO

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 A. G. HULL \& SONS, ST. CATHARINES, ONT., CANADA.

THE FARMER'S ADVOCATE


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$K$ is simple in
design. Does not easily get out of " kilter." Your
boy can start it. LOOK HOW COMPACT. No conglomeration of tank and pipes
always in the way. Booklet No. 57 will post you
ciples of Gasoline Engines.
Ontario Wind Engine \& Pump Co


STEWARTM.GRAHAM
PORT PERRY, ONTARIO.
pecdigrecelive-stock and realeotate AUCTIONEER.

## LIGHT YOUR HOME $\Rightarrow$ BY ELECTRICITY <br> 

FAIRBANKS-MORSE
RESIDENCE ELECTRIC LIGHTING PLANT

$$
50 \text { Lights }-5 \text { cents an hour. }
$$

$\mathbf{W}^{\text {E HAVE standardized the electric lighting plant shown above, and are }}$ prepared to furnish it with a complete outfit of fixtures, shades and prepared to furnish it with a complete outfit of fixtures, shades and
lamps, suitable for a high-class country residence or farm, ready to
p. Everything is included except the wire, which we can furnish in put up. Everything is included except
quantity and size required at market price
The dynamo will run 50 lights all the time ; the storage battery will run
9 lights eight hours, 13 lights five hours, 18 lights three hours or 30 lights 9 lights eig
The dynamo can be run during the hours when the most light is wanted,
and the battery will carry such lights as are needed during the night and and the battery will carry such lights as are needed during the night and
daytime. This allows the engine (a Fairbanks-Morse Gasoline) to be used daytime. This allows
for general farm power

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CIDER PRESSES IT为 Land Plaster
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Absolutely Safe. Established Absolutely Safe. Established
Business.
Amprican Spgurities Co.. Toronto

# The Farmer's Mavocate <br> - Persevere and Succeed.' <br> <br> and Home Nragazine 

 <br> <br> and Home Nragazine}

EDITORIAL.

| All over this continent the cost of living has suddenly awakened foun folk to realize that the farmer is a king |  |
| :---: | :---: |
|  | are chiefly for new work in research, demonstration, and in the conflict with animal and vegetable pestes |
|  | C. Two very successful strawberry-growers at the ruary, laid much stress on spraying with Bordeaux mixture before blooming. One of them sprays, also, just after blooming. Our spray calendar recommends two applications for the leaf-spot, one before the blossoms open, and one soon after |
|  | picking. Plow down at once after second crop In setting out a plantation, choose only healthy plants, with no sign of disease. |

Who knows how much we have yet to unlearn ununced at Ottawa that the Government had
theories about handling quality and other ex. (trained a point, and decided to redeem den ternal indications of beefing merit? We have opinions and dicta plenty, but of solid, incontrocertible information none too much

A skilled tradesman, with a permanent pos tion, bringing him 83 per day, in London, Ont trial, concludes that, under no consideration would ho return to city dirt, drudgery and distractions

The recent sale in the United States of a Ca oi $\$ 10,000$, is a vindication of his championship honors at the National Fxhibition at Toronto, last autumn, and an added evidence of the capat.spe of live stock.

## I good many members of Federal and Pro

 (1ncial Parliaments appear to have the notion is to represent some political party. Wrong They are sent there to work for the whole people, not for themselves, or any particular faction inBefore embarking in the dubious Hudson's Bay Railway project, the Canadian Parliament would do well to compiein Bay Canal and redeem the the proposed Georgian Bay Canal, and redeem the Continuous communication with the mainlan

## THE FARMER'S ADVOCATE

the Farmer's Advocate and Home Magazine.
THB L. ricultural journal in the DOMINION.
the William weld company (Limitrd)
john weld. managr
Agents for The Firmer's rr's Advocat
innipge, Man It is impartial and independent of all cliques or parties, handsomel
 men. gardeners, stockmen and home-makers, of any publication ERMS OF SUBSCRIPTION.-In Canada, England, Ireland,
Scotland, Newfoundland and New Zealand, Sl. So per year, in

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HE FARMER'S ADVOCATE is sent to subscribers untin a
explicit urder is roccived for its discontinuance. All pal ments of

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sible until all arrearages are paid and their paper ordered to be
discontinued.
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RE GIVRN.
WHENA A REPLY BY MAIL IS REQUIRED
Veterinary or Legal Enquiries. \$ must be enclosed.
LETTERS intended for publication should be be
side of the paper only-
HANGE OF ADDRESS of address should give the old as well as the new P. Po, addrese
WE INVIT WE INVITE FARMERS to write us on any agricultural topic


 peeipt of postage.
ALL COMMUNICATIONS in reference to any matter connected
with this paper should be caddersed as below, and not to any
individual connected with the paper. dress-the farmers advocate, of

## a little. Because the tree looks wet from where

 he stands, he is inciint,l to think it is all wel sprayed, when careful examination of the twigswould convince him to the contrary. Here are a ew rules that every begimer should follow scrupulously
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ 3. Spray every tree from whit angles-four
angles from each side. 1 by so doing, som cover tree. For the most immortant spras just ant
4. blossoms fall, drench the trees thoronghly
the blot the blossoms fall, drench the trees thoromghly
spraying from above, using either a tower or


 generally be too late to stray effictively for "od



Where to Tap the Vein.
The other day, one of our contemporaries, a
dairy paper, and official organ of a couple of dairy dairy paper, and official organ of a couple of dairy-
breed societies, including the Canadian HolsteinFriesian Association, figured up the percentage of Friesian Association, figured up the percentage of
buyers at a certain recent Holstein sale who were on its subscription list. The proportion, we believe, was fifty per cent. More out of curiosity than for any other reason, one of the clerks in our business office looked up the list of buyers at this sale, and found that 66.66 per cent. were bonafide subscribers to "The Farmer's Advocate." This comparative showing is remarkable, when it is considered that the other paper, by virtue of its official-organ arrangement, goes to every member
of the Canadian Holstein-Friesian Association. Moreover, it was noticeable that the roster of all the armer's Advocate read the best prices, indicating the substantial character of the men who subscribe for this paper. Pursuing the examination further, our mathematician analyzed the published
records of a number of other representative recent sales, with the following result
Percentage of purchasers at various sales who
(
A. Caskey, Madoc, Ont.; Holsteins; 66.66
sale, March 25th 1910 Wm . Slaght, Beatton, Ont.; Holsteins :
sale, March 30th, 1910
100.00 F. A. Gilroy, Glen Buell, Ont ; Holsteins ; $\begin{array}{r}\text { Sale } \\ \text { sale April 7th, } 1910\end{array}$ sale, April 7th, 1910,
W. Smith, Maple Lodge; Shorthorns;
W A. W. Smith, Maple Lodge ; Shorthorns ;
sale, March 24th, 1910 Ombination sale; Shorthorns; Feb. 2m
and 3rd, 1910, of the Cans; and 3rd, 1910; of the Canadian buyers.. Arthur Johnston sale ; Shorthorns; March
$\qquad$
Such data could be accumulated at almost any length, all going to explain the splendid drawing
power of "Farmer's Advocate" advertisements, a drawing power that is further attested by the
cteady growth of our adwertising patronage once an advertiser, always an advertiser, so long as in the business, is the almost invariable rule. Now
and then a breeder or other advertiser resolves to
see whether he cannot obtain nearly as good resee whether he cannot obtain nearly as good re-
sults from some publication with lower rates. heldom does such a one try the experiment a secend time. The great difference in number of in-
quiries and percentage of purchases at good prices effectually convinces him that, dollar for dollar, ad-
$\qquad$

Do Not Spray Trees in Bloom
poisonous substance injurious shall, on summary conviction thereof before Justice of the Peace, be subject to a penalty not less than $\$ 1.00$, or more than $\$ 5.00$, with or without costs of prosecution, and, in case of a ine, or a fine and costs being awarded, and of the
ame not being, upon conviction, forthwith paich same not being, upon conviction, forthwith pai
the Justice may commit the offender to the cor Inon jail, there to be imprisoned for any term n
exceeding thirty days, unless the fme and costs Spray, hut do not spray while the trees are
So not commence until the petals ha bloom. Do not commence until the petals h
mostly fallen. After that stage, though,

## HORSES.

Thoroughbred and His Usefullness.
In your dssue of April 7 th there is an article draft and Macaulay, of Montreal, a breeder the horse stock of the country, etc.," and the article finishes up with these words
for the reasons obiection to racing as such, but the encouraging of racing, by permitting betting ould have any beneficial effect whatever uroin Now, Mr. Macaulay's experience and knowletge may or may not be of wider and more practical and than that of those gentlemen who gave ""
dence in person before the Select Committee Uttawa, when the recent legislation in connection With the racing bill was being considered befor Iarliament, but a few names of those gentlemen ment, and perhaps he may admit they know much about the matter as he claims to Duncan McFachren, V. S., a breeder and in
porter (not of Thoroughbreds, but of Clydesdales orter (not of Thoroughbreds, but of Clydesdales
o: over forty years' experience. contradicts dis nctly Mr. Macaulay's statements.
Veterinary Director-(ieneral Rutherford mos mphatically does the same.
Ir. Quinn, of Brampton, ditto. Mr. Quinn, of Brampton, ditto,
Hon. Adam Beeck, of London, likewise.
Colin. Campbell, of Montreal. Mlso Ir. Macaulay.
$\qquad$
 Hon. L.t.-Col. John Me. Hendrie, W. B. Hender-
con, a farmer from Montreal, and numerous others Those names are available, if wanted. heav-draft honse is the staple horse for this other hreeds for lighter work should not be en
couragen), as well. and at liast the opportunity
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Commencing Spraying Operations in "The Farmer's Advocate" Demonstration Orchard. he owner, Mr. Poole, and his son, are doing the work. In the lower left-hand corner of the picture is the
larrel of lime sulphur, with in vinegar faucot to draw off the concentrated solution. A wagon or cart would and


 their lighter stock of native horses. for over comportativedy short time elapsed after he was
$\$ 100,0010$ each, and so on ? Richardson were notified \$10,
The betting end of racing is incidental to the that they had not got sir Henry, and were asked
che cert and in this country as in every British "uoute when the proper one country, the individual should have the litberty "orted fir Henry in August, 1906, and never pi exercising his opinion of making a wager, if he hard in any way whatever that there was any
thing wrong until the spring of 1909. It is true Racing, like many other sports and phasures, that in the fall of 1909, and not until then, Mr an be overdone, and to some extent that condi MacNoilage wrote that the change had been made, last year. But to say that, because a few selfish ndividuals, controlling some of the racing assorations of this country, arr thind to public opinhe Thoroughbred and his usefulness, is to make assertion that mamy people will not agree
with, I amongst them. WILIIAM HWNOLIF. The Clydesdale Clash. In your issue of April Th, "The Question agentity Again" is touched upon by Mr. MacNeilof it, or he would let the mater drop. Howerer, if he prefers carrying the war into Airica, I have
r.o objections, and a spade will then have to bo r.o objections, and a spade will then have to be
callecd a spate. In witing of this matter, the
horse horse imported by Smith \& Richardson will be
alled Sir Henry
( 6104 ( $1: 3200)$, and the one in sootland Braidlie Prince (1220:1), so there will be - misunderstanding. MacNeilage scottish tharmer of March 192 h Mr. Wsdale Association was "unprecedented and op-
ressive. This is fairly. Arong language, and
This.


A Bad Case of Tree Butchery
Within three miles of "The Farmer's Advocate" Demonstra-



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$\qquad$
$\qquad$
$\qquad$
3. A mare whose sire is a registered standard
pacing horse, and whose dam and grandam were pacing horse, and whose dam and grandam were
sired by registered standard pacing horses, pro vided she herself has a pacing record of 2.25 , is the dam of one pacer with a record of 2.2 ing horse, provided she is the dam of two pacer with records of 2.25 .
acing A mare sired by a registered standar dams are each sired by a registered standard pac
ing horse.
6 . The progeny of a registered standard trot ting horse out of a registered standard pacing mare, or of a registered standard pacing
out of a registered standard trotting mare. Clear Grit's number is 859
The horse, Whistle Jacket, which you probably mark of $2.40 \frac{1}{4}$, but we do not find him on record in the American Trotting Register. If you wish or further information about him, you had bett
orite to Frank E. Best
355 , urite to F
Chicago, 111 .

## LIVE STOCK

Leicester Sheep.
About the middle of the eighteenth century Robert Bakewell, Dishley, England, began the im
rovement of the native long-wooled sheep of Lei cestershire and the other Midland Counties, pro ducing what has been known as the "Bakewell
luicester," thus giving to the world what has Laicester," thus giving to the world what ha continued to the present time, one of the mos
popular and profitable oi the Finglish breeds sheep.
The

There is no reason to believe he used any cros Having firm faith in the power of animals transmit their good qualities to their offspring, he, by wise selection, with a well-defined idea
his mind, and careful feeding and attention stock, so improved his flock that they rapidly be came celebrated in all the Midland and North Counties of England, and were freely used for the improvement of other breeds now popuar, his work rewarded financially. His first rams of fered for hire, in 1760 , brought him only $\$ 4.00$ and twelve wars lator he realized $\$ 6,000$ for thr of his rams for one season's use, 'and over $\$ 10,000$ for seven others. One farmer in Linconshire paid $\$ 5,000$ one season for the use of two rams, and
a two-thirds privilege for one ram brought $\$ 4,000$. a rate of $\$ 6,000$ for one season's use. For many years Leicesters were bred after Mr Bakewell's type, which meant increased size, grea early maturity, and good feeding qualities, with a greater wealth of flesh.
They were bred largely in the Midland an
North Counties while in vorkshire they mair North Counties, while in Yor
tained the greatest popularity. tained the greatest popularity.
About the middle of the mineteenth century, and after, large numbers of them were imported int Canada, where the competition in the show-rin,
became, perhaps, stronger than in their native became Canada, were at that time largely distributed Erade sheep of the coumtry.
The breeders along the borders of Fingland at Scotland, by careful selection, changed the tyy cesters, which Leicester imported into (ratada during the la Border Leicesters are eligible for registration in
the American Leicester Record and in the Canadian the American Leicester Record and in thic (hanadian
Leicester Record, and the remingling of the bloo pave what on each. To-day our Canadian cesters are very largely of liorder-feicester blood
with the old Finglish i,eicister toundation. or bre For three generations or more, the name
Jordan, of Driffield, Vorkshire, has been prominet Jordan, of Iriffield, Yorkshire, has been prominent
among the Finglish breeders; while Harrison, and others, largely residents of Yorhshire, have bee In the border comenties of Fingland and scot land, Lord Folwarth. of M,rown, Stands type, winning for it the popular place the breg Messrs. (Vark, of Oldhamstockss, Mullace, of Auch
enbrain; Twent: mat. of Nigton; Mon. A. J. Bal
have a very sprightly appearance, with a graceful large flow of milk, the lambs mature quickly, makcarriage, that adds very much to their beauty. The ing it possible to have a lot of plump, large hetween the eyes; a fair length, and almost and make splendid gains for the food consumed. straight, or only slightly Roman; thin from the They retain their size and good form under many eyes to the nostrils (which are rather large); the different conditions of treatment exceedingly well.
crown not too prominent. The ears thin, of me- hn fact, Richard Gibson, one of our very best drown not too prominent. The ears thin, of me- and and arrities on sheep in Canada, says a The prominent and bright, giving a very alert appear- Leicester is the only breed of sheep that has been
ance. The nose should be black, and the head improved upon in America." Henry Stewart, in ance. The nose should be black, and the head improved upon in America. Hemry Stewart, in
and ears covered with fine, straight, white hair, his book on sheep, says: The modern Leicester and ears covered with fine, straight, white hair, his a model sheep, a subject for the naturalist and
but no sign of wool, which should, however, come is a mis
close up behind the ears. and up to the jaws. artist to admire, and the shepherd to make his
More strength is required in the head of the ram, money out of, and has been used in the refinement More strength is required in the head of the ram, but must be free from coarseness. The neck is o
medium length, and carried almost perpendicula from the body; rather fine at setting-on of the


Border Leicester Yearling Ram
 smooth, and wide on top; front flanks well let down, giving a big, full girth around the heart The back straight, broad, and well covered with
firm flesh. The sides nicely arched from the thack and of good depth. The loin broad and strong Quarters long, und well let down. As in othe breeds, a great improvement has been made it
the quarters of the leficestens and hev (ull and well fleshed, making a good "leg of mut tonder The legs are straight, and well placed with white hair, as on the face, Bone not coarse


Trouble from Feeding Mangels and Sugar Beets.
sion that sugar beeth and mangels, when fed to
lrceding animals, will in some way cause the for
mation of renal and urinarye calcuyi, or bidney or mation of renal and urinary calculi, or kidney or he introduction of Bullutin No. 112 of the Iowa
apreriment Station, Ames, Iowa. In order to
retermine fust how An fied, a series of "xperiments covering five years were used aus the subjects of experiment, as they
ladder stones than other stock.
B seginning in the winter of $1904-0.5$ with four
Brginning in the winter of $1904-05$ with four
ams, in two lots of two each, the number under
est was increased, until, in 1907 -148 there were
 of almost every other modern breed. The chief ailue of the breed doubtless lies in the ability to improve others on which the rams are crossed,
and the by the cross." After a hundred and fifty years or so of breed-
ing in their purity, they still remain one of the most popular of breeds in Great Britain. The
Irrices obtained for them at the annual sales at prices obtained for them at the annual sales at
Kelso are amongst the very highest obtained at auction for any breed, and continue at high-water mark year after year, bringing at that sale, as
they do, as high as from $\$ 1,000$ to almost $\$ 2$, they do, as high as from $\$ 1,000$ to almost $\$ 2,000$
for single animals. When put on equality of conditions, they make
a grand showing for the breed in general utility. A grand showing for the breed in general utility,
Muring 1896, Prof. Curtis, of Iowa Agricultural college, Ames, Ia., conducted a test with ten wether lambs of each of the nine mutton breeds, mostly bred in Canada and the I inited States, and most1 all selected from Canadian flocks, the results
teing most creditable for the Leicesters, which lood at the top of the list, or close up, in all
he lines of comparison, namely, total gain, cost if food per pound of gain, cost of food consumed
,er 100 pounds of live weight, percentage of mut-
on to live weight, value of carcass when for retail market, value of flecereass etc. .hen cut up
as continued in 1897 with the same number ambs, and with practically the same number of
When used on the rangus to cross on the range Wes, they produce latmbs of ery uniform type, alue, commanding high prices for feeders. Used is in Scotland, for crossing on the Cheviot or Blachfaces, they give a cross much valued by the
iceders in the Lowlands, to consume their turnips, and turn them into lamb and mutton that comin, mand the highest prices in the best markets of ngland. So, also, is it in New Zealand, where
hey are much sought after, and whose buyers -ome of the highest prices for rams of the breed Irince Edward Island they are the foundation cock, and their blood predominates in the lamb
i.ot 3, has, grain, and silage.
ton, of Sandyhowl; Macintosh, and soores

APRIL 28, 1910
THE FARMER'S ADVOCATE
lows: Sugar beets and mangels favor the forma hon of read stones, when fed to breeding kidney and 2. It is very probable that these roots
the same effect when fed to ewes or to cattle. ng the formation of these stonuts often attendingadvisable to feed sugar beets and mangels reeding animals.
mangels to fattening animals, as Che calculi are not likely to develop sufficiently
during the fattening period to cause serious re The above conclusions are startling enough,
lut in view of the fact that thr luut, in vicw of the fact that the animals under period, and the further fact that mangels and sugar beets are fed much more generally in Can-
ada than in the adjoining States, with no ill ofarda than in the
fects observarle
few sheep, little

Alberta Spring Live-stock Show
The most successiul Spring Live-stock Sho at Calgary in the first week of the present month, at which prizes were offered for horses, beef cattle,
sheep, swine, dressed carcasses, and judging comsheep, sue, dressed carcasses, and judging com-
petitions, upwards of one thousand entries being
booked for the stallion and horse show alone. The booked for the stallion and horse show alone. The
breeding section of horses was represented breeding section of horses was represented by
entrics of Clydesdales, Percherons, entries of Clydesdales, Percherons, Shires, Bel-
gians, Suffolks, Thoroughteds, Hackness and Standard-breds. Prof. W. I. Carlyle, of
Moscow, Indiana, judged the heavy-draft classes. and.I. H. Taber, of Condie, the light-horse classes. The sadtle horses were judges liy H. C. Lawson,
of Regina. In the class for Clydesdale stallions five years
and over, first place was given to Royal King (imp.), a bay horse, by Royal Edward, shown by Walter Moss; second to Master MacQueen, by
Macteucen, shown by James Clark; third to IVm. Moorie. In the four-year-old class, James
Clark was first with Gay Times; Marshall \& (Tark was first with (iay Times; Marshall \&
Watson's Scotland's Knight was second, and it. L. Dollar's Scotland's Magnet, third. In the
threeyearold class the placing was, James
(lark's Col. MacQueen first: J. A. Turner's (lark's Col. MacQueen first: J. A. Turner's
Wealthy Prince second, and the same owner's Nealthy Prince second, and the same owners
Fconomist third. The championship for best
CIydesclale any age or sex went to Royal king. the first-rrize aged horse. The champon femal
of the breed was A. (: Dewdney's first-prize aged mare, Proud Beauty (imp.), by Baron's Pride.
P'ercherons made a strong showing. The call for stallions four years or over brought out sil
good ones. Garon, a mray four-year-old, owned been shown in Western Canada since he was a II. W. Hunter's Dentiste, also a gray, was second Halifax, formerly owned by Colquhoun \& beatiod
hut now by Geo. Lane, lowl the three year-old section, If. J. Wigles Fairlad coming third (The
 Genette, the first-prize aged mare, also owned b.
Lane.
Shires
 weighing 2,070 pounds, ouned by Hunter, was the
"inner in the aged stallion class. Mclugh wa
wunt the "inning aged mare, whose weight was 1,92
pounds.
kalgians were well shown the thelgian llor
kanche of Calparlat
logued. Before the bulls were put up for sale,
they were judged, and placed in thair foesnection they wer
classes.
Short Shorthorns. -Three years and over-1, HI. Talbot, Lacombe 2 , J. Hogg, Okotoks , 3, 3 , D. Sin-
ciair, Innisfail. Two years and clair, Innisfail. Two years and under 30 months Lacombe. Thirty months, and under three years -1, A. H. Bolton, Gladys; 2, A.S. Fowler, High River; 3, I). Martin, (iladys. Fighteen months and under two years-1, 1. I Walters, Clive; 2
and 3 , J. Sharp, I acombe. Yearlings and under
eishten eighteen months-1, S. . R. Fnglish, Lanuke; 2 and
3, W. P. William, Fort Saskatchewan. (hampion3. W. P. William, fort Saskatchewan. ('hampion-
ship Shorthorn-l1. Talbot. Herefords.-Three years and over-1, E. B3, Ran-
dall, Lacombe ; 2, (i. Phipps, Cochrane :
3 II. Watkins, olds. Two years and under thirty Monthe -1 and 2, Palmer :3, A. Fletcher, Mound.
Fighteen months and under-1 and 2, S. Mace 'ekisko; 3, (). Y'almer. Yearlings and under eighteen' months-1 and $2, .5$ Mace; $3, \mathrm{P}, \mathrm{M}$. Ballantyne. Champion Hereford-S. M. Mace.
Aberdeen-Angus.-Three years and over-1, Alex. Aberdeen-Angus.-Three years and over-1, Alex.
Shaw. Medicine Hat. Tider two years-1, Ceo.
(: Melson, Olds: 2, T. Croxford B, 1. HutchinThaw, Medicine Hat. Tnder two years-1, Geo.
i. Melson, Olds ; 2, T. Croxford, 3, 1. Hutchin-
son. Two years and under three years-1, F. R. Cathro, Calgary $2^{2}$, G. E. Melson. Champion Angus-Geo. G. Melson, Olds.
(ialloways.-W. F. Tees, of Tees, Alberta, won all the prizes in this class.
This was the tenth salife annual auction sale of bulls. The sale was very successful, and the
prices realized were encouraging to all stockmen Vinety-six animals were sold, and the average Mrice realized was $\$ 96$ for shorthorns, $\$ 111$ for Cierefords, $\$ 99$ for Aberteen-Angus, and $\$ 75$ for halloways. 1 ast year the average was Short
hons, $\$ 108$; Herefords, $\$ 101$ : Aberdeen-Angus, 8121; and (ialloways, \$50). The ranchers and stockmen who attended th
show were very much impressed with the gualit show were very much impressed with the quality
of the animals, and in every instance the price 1. A. Markle, Inspector of Indian Ifead Agencies who purchased thirty bulls for his wards on the
"arions ruserces. The highest price, $\$ 205$, was faid for the shorthorn bull, ('arnation's Hero Ofiered by James A. Hogge, of Okotoks, and pur hased by Sullivan, of Olds, Alta. $\$ 1111$ for five head ; Wim. Sharp, Sames Sharp, head James Wilson, $\$ 122$ for six head for fil ior six head ceo. (i, Melson, $\$ 93$ on four head


THE FARM.
A Fifty-bushel Wheat Crop.
Ihent field in 1909 . I amm of a section of our came taken while beingy cut, as the grain stood was about 50 bushels to the acre, but a few simall was also comsiderable waste where the "rop was
lodged, and, also, on account of being threshed

## 

How to Test Seed Corn. Authorities in the corn belt have been warning
armers to test their seed corn. At a certain orn show in Indiana last winter, 90 per cent. seriously exhibits were found to be more or less soft, darkened germs. frost, and showing many iound to be so seriously affected by frost as to
be entirely worthloss be entirely worthless for seed purposes as to
investi investigations revealed that purposes. merely local condition.
Under such condit.
Under such conditions, remarks A. T. Wiancka)
Igriculturist of the Purdue Agriculturist of the Purdue Experiment Station,
there is nothing for the farmer to do but mate careful individual-ear germination tests of all his seed corn that was exposed to the frost. If this is not done, there is sure to be much disappoint
inent in the character of the stand of corn secured next spring. The importance of seed-corn testing, and the great amount of saving that may be made by a
little work of this kind, and netle work of this kind, and methods of making
tests, have been so thoroughly diacussed in all agricultural papers during the last four or fivo years, that it would seem to be unnecessary to do that much corn has been damaged, but for those who are not yet familiar with up-to-date methods oi making germination tests, the following simple nd effective plan is recommended :
Take ordinary inch lumber and

Take ordinary inch lumber and make a shallow
$y$ of convenient size, say, about two by three feet, and two and one hail' inches deep. Then hore small holes through the sides and ends, about one and one half inches above the bottom, and
put an inch and three-quarters apart. Through these holes string light galvanized or copper wire in both directions. Then fill up the tray to the preferred because it is clean, and easily kept in in good condition. Each square marked off on the surface by the cross wires is intended for the
hernels, from a single ear of corn. Instead of ernels from a single ear of corn. Instead of
weaving in the cross wires as indicated, a piece , large-meshed, wire chicken-fence may be fastened in. If this is preferred, the tray should be made me and one-half inches deep, then the piece of
hicken-fence fastencd on top, and an inch strip nailed on top of that, so as to raise the edges of he tray an inch above the wire netting, as in the ther case. After the tray has been filled up to thoove, and thoroughly moistened, the tester is ready for use. If much corn is to be tested, sev"ral of these testers should be provided. They
are easily made, and with good care will last are easily made, and with good care will last
many years. For the average farmer, one will be cufficient, as about three bushels of seed ears can tested at one time.
When making tests.
rranging the ears on a floor, table, shelf or rack arranging the ears on a floor, table, shelf or rack
must be employed, so that the ear corresponding to a certain square in the tester may bo readily
located. Begin filling the tester by placing five located. Begin filling the tester by placing five
kernels from the first ear, selected by taking one hernels from the first ear, selected hy taking one
iom each of five different parts of the ear, in the first square at the upper left-hand corner, and fill each row of squares in regular order.
After the kernels have leen placed, the mate rial in the tester must be kept thoroughly moist. some kind of coler must the used to keep the sur-
face from drying, and, if this is properly done face from drying, and, if this is properly done,
the kernels need not be buried out of sight. Panes of glass or a glass window sash make the most katisfactory cover. This should rest loosely on the edges of the tester, so as to admit some air.
With such a cover. the soil need be moistened only With such a cover. the soil need be moistened only
once for pach test, as the evaporated moisture


## THE FARMER'S ADVOCATE.

will condense on the under surface of the glass
and drop down again. When moistening is nee cssary, after the kernels have been placed or other cloth should be spread on the suriac and the water poured gently on top. If this of the kernels out of place.
The tester should be placed in a room ranging around 70 degrees $F$. in temperature during th day, and not falling below 50 at night. The o
dinary living-room is a good place for it, but dinary living-room is a good place for it, but it
should not be placed too near the stove. All
kernels which kernels which do not send out vigorous root and
stem sprouts within five days, under these condistem sprouts within five days, under these condi
tions, should be considered as too weak to ger minate properly under ordinary field conditions II the germination of any lot of kernels is unsatis factory, the ear from which they came should be
discarded. About 95 ner cent of the lernels discarded. About 95 per cent. of the kernel.
should germinate strongly within the five days. A handy person can easily make an individual ear test of five or six bushels in a day, and the
labor involved will be paid for many times over in the better stand of plants, and the consequently larger crop secured. You cannot afford to neglec
it. An illustration of a seed-corn tester prepare this way appeared in "The Farmer's Advocate"

## Refrigerator-Chart of Beef

 AnimalThe price generally paid for each cut. constructing a refrigerator big enough to han a beef when cut in quarters?
4. How long can vou heen beef in such a mace

$$
\begin{aligned}
& \text { in hot weather? } \\
& \text { Ans. }-1 \text { and } 2 \text {. A chart of beef animal } \\
& \text { he nublished in }
\end{aligned}
$$

Experiments with Cement Tile.-I filled, both a benefit in proportion to animal cannot devour the silo, whether it is wood steel or cement. The thing is, then, to make sure there will be enough to fill it. Indeed, if larger production of milk is desired, cows must be fed
better than they have been in the past. Thix feeding a cow poorly, then sneaking around bis ceding a cow poorly, then sneaking around be neither to one's manhood nor wealth. There are other ways of feeding at best and cheapest feed. It is a mighty good not as a luxury. If we expect a cow to give more wilk, she must be fed well all the vear. A cow must have the power, as well as the inclination, itality and power.
Feed given to a cow is not all returned at once, but, like "bread cast upon the water," will
be seen after many davs. Then, when we tol tider one-halfi an acre of good corn whill we poduce
enough to make enough to make over six tons of silage. 12,010
pounds- 40 pounds a day for 301 days. ()nequarter of an acre of roots will produce more than a cow can eat in 200 days. Less than threc
quarters of an acre gives a cow a full belly all Hinter and part of the summer. And, what with he straw, so plentiful on almost every farm, there Corn is the easiest and surest crop of all to are many I know that have never had a poor crop
two coats
absorbing"ith drainage, well trapped, to carry off the "trapped, to prevent passage of air. The floor
the ice-chamber must be water-tight. (alvanizet
(
gavanized iron to protect
the chamber is filled with
boards inside, with damp-proof paper betwerboards inside, with damp-proof paper between,
pive a fairl, good construction for the wall of of
the two chambers. The partition thet ween the
ice chammer and the coolink-room should be in
sulated in the
whe in the sathe manner as the walls.
be made smaller, and filledneed be insulated. Galvanisediron eslinderabout a foot in diameter, resting in a watere
the ceiling to the floor above, These are filled
with crushed ice and salt. The ice can be stored
in the o
freering wit
tion system
$=$
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\begin{aligned}
& \text { early issue, or as soon as space permits }{ }^{\text {en }} \text {. Answered by J. A. Ruddic } \\
& \text { end }
\end{aligned}
$$

$$
\begin{aligned}
& \text { 3 and 4. Answered by. I. A. Ruddick, Dair } \\
& \text { and Cold-storage Commissioner It impossitil }
\end{aligned}
$$友 keeping the land stirred and letting the air i,

$$
\begin{aligned}
& \text { and Cold-storage Commissioner : It is impossititite } \\
& \text { op properly describe any system of constructing } \\
& \text { refrigerator, in answer to a question of this kind }
\end{aligned}
$$ ' it. The land cannot be too rich for corn, b

it the same time, a wery fair crop' can be sro

$$
\begin{aligned}
& \text { to properly describe any system of constructing } \\
& \text { refrigerator, in answer to a question of this kind } \\
& \text { The best we can do is to state liriefly a few of the }
\end{aligned}
$$ on poorer land by good tillage. Ghave prown of cement, and in deduct from the solubility

$$
\begin{aligned}
& \text { The best we can do is to state briefly a few of the } \\
& \text { principles which must be followed. There ar }
\end{aligned}
$$ ". grow anything else. Though it was shor

$$
\begin{aligned}
& \text { principles which must be followed. There are } \\
& \text { several systems by which the cooling powe of } \\
& \text { is utilized. The circulation system is automatic }
\end{aligned}
$$

$$
\begin{aligned}
& \text { is utilized. The circulation system is automatic } \\
& \text { in its operation, and involves less labor than any }
\end{aligned}
$$ On fertilit, it was long on heat. For corn, 1

"ould prefer to have the manure on in the
"inter, or early in May. Plow the land before the 10th of May, harrow once and roll, and let it

$$
\begin{aligned}
& \text { Lers, one for ice, and one for the articles to be } \\
& \text { cooled. P'revision is made for a circulation of } \\
& \text { air bet ween the two chambers. } \\
& \text { ane ice-chamber }
\end{aligned}
$$ work to start many we weeks. This is enough

work the land up with disk or cultivator, Thent

$$
\begin{aligned}
& \text { air bet ween the two chambers. The ice-chamber } \\
& \text { may be above the cooling-room, or alongside. If }
\end{aligned}
$$

$$
\begin{aligned}
& \text { may be above the cooling-room, or alongside. If } \\
& \text { above, the circulation is controlled by having }
\end{aligned}
$$ harrow well. For seed, "hite-cap Dent is the

best for most of Ontario: it is earlier than any

$$
\begin{aligned}
& \text { above, the circulation is controlled by having } \\
& \text { openings along the wall on either side. } \\
& \text { partition should carry the opening to the top of }
\end{aligned}
$$ he dent I have eter got hold of, and I prefor three-quarters of an on the outside berng abou

$$
\begin{aligned}
& \text { partition should carry the opening to the top of } \\
& \text { the ice, on one side, which will cause the warm }
\end{aligned}
$$ flint does, and grows a bigyer croper and, if the part, and considerably thicker at the corners

$$
\begin{aligned}
& \text { The ice, on one side, which will cause the warm } \\
& \text { air to rise at that side. The cold air will fall }
\end{aligned}
$$

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\begin{aligned}
& \text { air to rise at that side. The cold air will fall } \\
& \text { through the opening on the other side. If the }
\end{aligned}
$$ enough. As to quantits of seed. for southern

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\begin{aligned}
& \text { ice chamber is alongside the cooling rooun, open o } \text { in } \\
& \text { ings at the top and bottom of the partition be }
\end{aligned}
$$ Ontario. on warm land, about 2.5 ,

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\begin{aligned}
& \text { inge at the top and botiom of the partition be be } \\
& \text { tween the two chambers provide the necessary co che }
\end{aligned}
$$ ity. As we go further north, less seed should

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\begin{aligned}
& \text { culation. } \\
& \text { The walls require to be constructed with as }
\end{aligned}
$$

$\qquad$
$\qquad$

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\begin{aligned}
& \text { nearly as possible an impervious shell outside and } \\
& \text { inside, the space between these two shells to the } \\
& \text { isin }
\end{aligned}
$$

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\begin{aligned}
& \text { inside, the space between these two shells to the } \\
& \text { filled with planer shavings, not sawdust. The } \\
& \text { sonce for ho bhuce }
\end{aligned}
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PRIL 28, 1910 THE FAKMER'S ADVOCATE
figures that from 6 cubic feet of samd and $1 \frac{1}{2}$ undrained land. The snowfall in these sections tile, say 140 , in round numbers. This gives us a means of arriving at an estimate of the cost of making three-inch tile, one-half inch thick, by Guelph, we pay $\$ 1$ a yard for sand, and $\$ 1.90$ for 6 . cubic feet of sand cost

Total price of material for 140 tile ........ \$ 93 Wages of one man for one doy tile Total cost of 500 tile
Total cost of 1,000 tile
In this estimate no allowance is made for haulhy the material, as this can be offset against the comparison between the cost of the two kinds. some localities, but knowing that $\sigma_{6}$ feet of sand that a good man can make about 500 tile a day on certain types of machine, the cost of manufacn various localities. Or, again, if type of machine is such that a man can make only 400, in-
stead of 500 in a day, the cost of the tile can Corn-growing in South-western Ontario.
According to the 1909 report of the Ontario
Bureau of Industries, we learn that the corn fields of the I'rovince produced in that year $23,601,122$ bushels of corn. Those counties producing the greatest number of bushels were as follows
Essex, $6,389,543$; Kent, 5,580,639; Elgin, 1, 946,032 ; Lambton, $1,527,251$; Middlesex, 1 S52,828: Norfolk, $1,164,364$.
It will, therefore, be seen that more than two thirds of the corn which is now being grown grain in the Province is produced in these six Counties of Essex and Kent, it will be seen, protwo counties are very happily situated in regard to climatic conditions, which are very similar to
those which exist in Northern Ohio, Michigan, and Southern Wisconsin. This explains the popuorn are grown to a degree of perfection equalling any of the above-mentioned States. The hot,
humid climate seems to be exactly what the corn rlant requires. The varieties grown and the
methods of cultivation vary greatly, even within very limited distances, depending in a great measure upon the type of soil and the season.
is, therefore, impossible to outline a uniform s. s, therefore, impossible to outine a There are several practices which are essential
o successful corn culture, wherever the crop is to successful corn culture, wherever the crop is
grown. One of the most important of these is proper drainage. The unusually wet season of
1909 has donc a great deal to convince farmers as to the value of underdrainage. Hundreds of acres of corn were lost through the early spring and
Iune rains of that year. As a result, many of the corn-growers whose land requires drainage winter and spring in getting these into the fields intended for this season's crop. many cases last year, undlerdrainage meant the difference het
is very light, and often there is very little frost
in the soil. This lack of winter protection ffoset in the soil. This lack of winter protection offsets under these conditions land which has been fall plowed is very likely to run together badly. Where land has been thoroughly tiled, however, fall plowhigher land in the north and eastern part of the peninsula, fall plowing is practiced to a much
Methods of fitting the soil for corn also vary Wer the greater portion of the area devoted largeduce an extremely fine seed-berd, as is the custom
further east. The disk harrow is the implement further east. The disk harrow is the implement
used mainly for this purpose, and the soil is worked up quite deeply; it is then smoothed down
with the smoothing harrow, and is ready for planting. Spen serfation She question of seed selection is one which has not received the attention in the past that its
importance warranted. There has been in cormer
years an attempt. years an attempt to increase the yeelds per acre ab growing late, high-yielding varieties that had
been found to give good results in the Southern and Central States. The uncertainty of these suricties has induced the best men to grow only mature thoroughly year after year. These men are now depending upon proper drainage, better
methods of cultivation and selection for inmethods of cultivation and selection for in-
creased yields, rather than upon late, high--⿰ield-
ing varieties.
The variety question is therofore ing varieties. The variety question is, therefore,
gradually righting itself, and each locality is gradually righting itself, and each locality is
growing the varieties most suitable to its conditions, and a gradual evolution from the medium dents to flints will be found as we proceed north and eastward. Closelv coupled with suitable varieties comes areful selection within the variety. Though there are still a considerable number of growers who go directly to the crib, select their seed corn, shell it, and plant it, their number is gradually
diminishing. diminishing.
The most successful growers select their seed
corn in the fall, hang it up in an attic in the house, or in some place where it will dry out
thoroughly. This seed is carefully tested before thoroughly. This seed is carefully tested before
planting, some testing each individual ear, and others making a general test representative of the supply. This work is done early in the months of February or March, so that if the seed does
not give a strong germination, there will still be time to procure seed from a neighbor whose corn has given a strong test. Usually, however, seed corn properly stored and cured will give good sat-
isfaction. The next step adopted by many is to grade
the seed. This is done either by a mechanical grader or by hand, the object being to separate the large grains from the small and medium grains. The large hutt and small tip kernels are
first removed and discarded; then, if the grading is to be done by hand, the ears having the broad, thick type of kernel are shelled hy
themselves. The ears with the narrow or shoe themselves. The ears with the narrow or shoe
peg type of kernels are also shelled separately. peg type of kernels are also shelled separately.
These different types of kernels are kept separate. Thes one lot is run through the planter until finished, before commencing the other. This results in a much more even stand than if large and small
hernels were mixed together and planted. Mechanical check-row planters are used almost en-
tirely. Practically all corn is planted in hills 3 feet 6 inches or 3 feet 8 inches each way,
from 3 to 4 kernels dropped in each hill.


The tillage.
The first tillage operation is to go over the This is often done immediately after planting. s kepit up until the corn is two or three inches this. When harrowing corn which has reached corn is wilted, as there is less danger of when the down the stalks than in the morning, when they The and full of sap. mulch, conserves soil moisture, and kills thousands of weeds which have just begun to grow. Thus,
all the objects of cultivation are obtained at a time when it would be impossible to use a cultivator, and later much more cheaply than it could possibly be done with this implement. From four
to six times are about the average number of six times are about the average number
times corn is cultivated.
The two-horse cultivator is used entirely for the first few cultivavator is used entirely for the first few cultiva-
tions. This implement is kept going as often as is necessary to preserve a soil mulch, and preget through the corn after every rain, as soon as the soil is dry enough. Cultivation with the two-horse cultivator is stopped as soon ns the
cultivator begins to break down the corn when turning at the ends. The one-horse cultivator or scuffer is then brought into play. This implement is rapidly superseding the old double-shovel
plow, which at one time was very popular in dent-corn sections. There was nothing to prevent the shovels from going into the ground 10 a depth of six inches or more, and great damage was done to the crop by tearing out the ?eoding
roots, which grow quite closely to the surface, and roots, which grow quite closely to the surface, and
often meet in the center of the row. The broad blades, or thistle cutters, are placed in the centre and outside back teeth of the scuffler; these clip
off any weeds which may have been left from preoff any weeds which may have been left from pre-
vious cultivations, and do not go deeply enough into the soil to injure the roots. Cultivation is scuffer is laid by Some growers sow red clover seed at the rate of about ten pounds to the acre between the rows just bofore the last cultivation. This they claim will give a very satisfactory catch of clover, but
unless the season is a moist one, the chances for a good catch are not very favorable.
The last cleaning-up operation before leaving weeds which the cultivators haye missed. These, besides going to seed, interfere materially with cutting.
Essex
Co $\qquad$ A. MCKENNY.

There are three beet surgr fect
tories in Canada one at Wallaceburg, Ont.: one at Berlin, Ont. and the third at Raymond, Alberta. A total of producing 19711 of beets were treated last year More than half of this, $12,684,412$ pounds, was inanufactured at Wallaceburg, from 6,600 acres o beets, an average sugar extract of 12.88 pe uge $\$ 597$ armers there received $\$ 289,294$, an aver age of $\$ 5.87$ per ton. Average yield of beets per
acre, 7.46 tons: value, $\$ 43.83$. The Berlin facnere, 7.46 tons, value, $\$ 43.83$. The Berlin fac
tory treated 13,383 tons of beets from 2,200 acres. extracting 18.12 per cent. sugar, amounting
to $3,511,692$ pounds in all. Beets averaged 6.09 to $3,511,092$ pounds in all. Beets averaged 6.09
tons, or $\$ 35$ per acre. The factory at Raymond ons, or $\$ 35$ per acre. The factory at Raymond,
Ita.., from 2,300 acres of beets manufactured 515,697 pounds sugar. Average yield of beets per acre, 5.4 tons; value, $\$ 27.07$, sugar ex
tracted, 14.15 per cent. The Wallaceburg dis tracted, 14.15 per cent. The Wallaceburg dis
trict, though having the lowest percentage sugar, gave much the hest returns per acre.

There is some difirernere of oplyion ns to the


720 Stiffen-up on Hay Prices.
I noticed in the Government Annual Report,
the other day, that there is one-third less hay in Untario on the 31st of March this year than year ago
vivine cannot understand why farmers ar have seen several articles in ". The Farmer's Ad leaving the farms a think one reaso is and after they have
after they have worked hard and grown the
crops, these are oftentimes sold away helow their cost, simply because there is no organization amongst the farmers to know what they showl really sell their crops for. The dealers all get together and set the price, when, in reality, the fast fall, one of the large milling companies ad vised all the farmers to hold their wheat, unless they got $\$ 1.00$ a bushel for it. The farmers of
Ontario took this advice, and the wheat has re mained the same all winter. oons of hay for sale puts it on the market, it will mean to force the price of hay down $\$ 4$ or $\$ 5$ a
ton. What they make on the two or three tons hey sell, they will lose $\$ 100$ on next year's crop.
would advise every man who has three or four tons of hay to sell, not to sell it unless he gets
from $\$ 18$ to $\$ 20$ a ton in the barm for loose hav. from $\$ 18$ to $\$ 20$ a to in the barn for loose hay.
and not to sell a pound of new hay under $\$ 12$ FARMER.

Potatoes Grown in Rotation. In Clay County, Minnesota, rather inten
methods of raising potatoes aro followed in
hree-year rotation: one year of grain, one three-year rotation, one year of grain, one year
of grass, and one year of potatoes. $\mathrm{\Lambda s}$ much f grass, and one year of potatoes
he land as possible is manured twelve loads per acre, and frequently commercial ertilizers are used at the rate of 500 pounds to bushels per acre has been known on a field of 232 ing, insecticides, planting, harvesting, etc., was
but $\$ 37.72$. In the same locality, the cost on unfertilized land, in 1907 , on a scale of 331 acres, was $\$ 26.36$ per acree.

## Cultivation Exhausts Humus

 gels, and all root crops that are planted in rowand cultivated during growth. Such crops hav
been regarded as heneticial to soul frops. been regarded as beneticial to soil fertility, but
investigations at the Minnesota Experiment Stainvestigations at the Minnesota Experiment sta-
tion show that continuous growth of cultivaterl
crops depletes the soil more rapidly than does th. growing of gra
tivation tends
$\qquad$

Rotation Increases Yields

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THE FARMER'S ADVOCATE

THE DAIRY.
Payment for Milk at Cheese Factories
up to the present, of accurately determining th wo to the percentage of fat in milk, the sum asein in milk for cheesemaking
In order to convince those who are still of the opinion that all milk is of equal value per 10 pounds, for cheesemaking, allow us to refer to a
table of results based on experiments conducted at the College

(The foregoing table is not absolutely correct,
as we have left off the second and third decimal in order to simplify it, but it is near enough for all practical purposes.)
crease of one-half of one per cent. fat in the milk (from 3 to 3.5) gave an increased yield of cheese milk; an increase in a pound per 100 pounds from' 3.5 to 4 , produced nearly one pound more cheese per 100 prounds milk, yet there are those ence." For those who think the fat of milk should de ermine its value for cheesemaking, please note the 100 pounds milk as the percentage produced per milk increased. This decrease is one half pound of cheese per pound of fat in the milk, comparing 3 better than no test for milk to fat test alone is making, it gives an undue advantage in cheeseimportant constituent when payment is based ntirely upon the fat content of milk. There is trilk, both of which are essential in and forecheesemaking. The cusein efsential in milk for rier in cheese of the moisture and fat. Without tasein, cheese, as ordinarily understood, cannot be
manufactured. It is that portion of milk which is acted upon by the rennet, and, as previously pointed out, it is the muscle-forming portion cheese which makes it so valuable as a food for THE DOLIAN

Qud-SENSE Side of the
them, are anxious to receive all the majority of them for milk pooled with neighbors, and that
they are also endowed with us see how it works out practically sense. Let sake of argument, we shall assume that the milk having increases of one-half per cent. fat, from to be made into cheese. If in five neighbors, money received for the cherse made on the basis of
weight of milk dith a pound, then each would receive $\$ 1.032$ per 100
a 10 ents
a pounds milk. On the basis of fat alone, the man
sending 3 -per-cont. milk would receive 7 , ber 100 pounds; 3.5 -per-cent. milk, 903 cent 4-per-cent. milk, $\$ 1.03 ; 4$-5-per-cent, milk, $\$ 1.16$ and wal-cent. milk, $\$ 1.29$ per 100 pounds. The
actual values on the basis of weight of cheese
produced aro. $8 \%$ milk is worth $\$ .89$ per 100 lbs ". $\$ \$ .86$
 Notice how closelv tho
nomes comes to the actual cheese value of the milk. It
tends to give a little less than its actur to the 3 -per-cent. milk, and a little more than the actual value for milk testing 4 per cent. fat and aver. This is a compromise which ought to b
acceptable to all parties. All great questions ar
usually settle ac usually settle as the in Canada consider it patrons of cheese factorie tinue the present system, which results in to con less robbery on the part of some who would no
knowingly be guilty of knowingly be guilty of putting their hands int neir neighbors' pockets? Will a man rob hi
neighbor?

The annual reports of Canadian cargo inspect The annual reports of Canadian cargo inspect
ors at British perts again draw attention to the
large percentage of broken cheese boxes landed it

THE FARMER'S ADVOCATE
A Wonderful Producer of Human Renovated Butter and Oleomar_ 4. In order to become qualified to lay both Food.

A Holstein cow, owned by the Dairy Depart nent of the University of Missouri, in one year contained in the complete carcasses of four steen weighing 1,250 pounds each. This statement, impossible as it seems, is not only true, but does the milk which are completely digested and used he milk which are completely digested and used the equivalent of four steers is Princess Carlotta in the year she produced 18,405 pounds of milk. Letow is given hee antount oll proteass, , Iat, sugar
and ash contained in this milk, and the amount of the same substances thuns by by tr. pe. Ifo. Irow lridge, in an analysis nade of
steer weighing 1,250
nouncis.

| Proteid | 18,405 lus. milk. 552 lbs. | 1,250-lb. stee 172 lbs. |
| :---: | :---: | :---: |
| Fat. | 618 lms . | 333 lbs . |
| Sugar | 920 lhs . | ...... lbs. |
| Asb | 128 lts . | 43 lbs . |

The total amount of dry matter in the milk was 2,218 pounds, all of which 18 edrbe and
gestible. The steer, with a live weight of 1,250 pounds, containge 56 per cent. ot water in the carcass, this dry matter of the stecr is included hair and
hide, bones and tendons, organs of digestion and uspiration; in fact, the entire animal, a consider able portion of which is not edible. The analysis of the steer's carcass was made from animals tak-
en after grinding up together one-half of the comen after grinding up together one-half of the com-
plete carcass, and is not in any sense an estimation of the compositio
Princess Carlotta produced proteids sufficient for more than three steers; nearly fat enough for
two ; ash enough to buila the skeleton for three, and, in addition, produced 920 pounds of milk sugar, worth as much per pound for food as Uinary sugar.
These figur because of this economical use of food that the dairy cow, and not the steer, is kept on high-
priced lands. When land is cheap, and feed abundant, the meat-producing animals predominate, but
"hen the land becomes high in value and feed ex pensive, the farmer turns to the dairy cow. C. H. FCKLES, Prof. Dairy Husbandry

## Seven Stones in Herd-building

1. Milking clean, to obtain all that a cow
give, and to prevent early drying-of.
2. Use of pure-bred sire from strain of large 2. Use of pure-bred sire from strain of large
producers, to acquire good qualities and perpetute dairy tendencies. Of what value is a scrub
3. Regular and careful feeding as to time, quantity and quality, adjusting the grain
to the production of milk and butter-fat; chased.
4. Providing succulent feed, as roots, silage and soiling crops, to sustain and proforg the flow 5. Culling out poor cows; ${ }_{\text {no o one wants them }}^{\text {Beef them }}$ 6. Good care, including kind treatment, and everything conducive to comfort, ceaportunity to health, so as to give the age. Better methods;
work to the best advantag.
not necessariity much outlay of cash. not necessariiy much Keeping records. Much of the foregoing
ating butter across the line, note these figures serves that the March Produce Review, which ob in the Chicago district was somewhat larger than during any month since December. The total froduction for the past four months was as fol


Month of January
mber ............ 1,651,752 liss $1,995,600 \mathrm{lbs}$
At the same time there was a larger output of ir the previous month, the consumption of oleo
in some sections of the coumtry being heavy. Dur ing the past six months, Octoler to March, the 137,382 pounds of colored, and $1,474,700$ pounds uncolored, or a total of $55,612,082$ pounds oleo-
$\qquad$ prof. Haecker, of Minnesota, an international


Golden Cherry

## APIARY.

Elementary Instructions in Bee-keeping.-V.

## 

Wote-Through no fault of his own, Mr Stroschein has found it impossinte to continue at
this busy season the interesting series of articles on "Elementary Instructions in Beekeeping," four instalments of which have been already published At our request, Mr. Mettit has consented to tuhi
up the thread, and contribute, in systematic order up the thread, and corticles for the special information of beginners. Mr. l'ettit's education and practical experience ar. sufficient guarante as to
the reliability and merit of the correspondence he the reliability and merit of the corrasponation
will submit.-Editor.]
In pursuance of Mr. Stroschein's discussion in In pursuance of Mr. Stroschein's discussion in recent numbers of
 The iry, "ever given in the Figlish language. It
is found in the first number of the first volume of is found in the first number of the first volume of
The American Iee Journal, January, 1861 , and aside from its historical interest, is a very clear
presentation of facts which ewryone must know "ho wishes to kecp bepe int propagation of life in
The facts concerning the promen the hive which were first given to the scientific world by izieroon, a serman shifntist, are stat 1. A colony of hees in tes normat condmen


4. In order to become qualified to lay both dated by a drone. 5. The fecundation of the queen is always ef
fected outside the hive, in the open air, and while on the wing.
6 . In the act of copulation, the genitalia of 6. In the act of copulation, the genitalia of
the drone enter the vulva of the queen, and the the drone enter the vulva of the queen, and the
drone simultaneously perishes.
7 . The fecundation of the queen, once accomplished, is efficacious during her life. in copulation, but a small vesicle or sac situated in copulation, but a small vesicle or sac situated
near the termination of the oviduct, and communi cating therwith, becomes charged with the semen 9. All eggs germinated in the ovary of queen tend to develop as males, and do develop as such unless impregnated by the male sperm while passing the mouth of the seminal sac, or
spermatheca, when descending the oviduct. If they spermatheca, when descending the oviduct. If they
be thus impregnated in their downward passage be thus impregnated in their downward passage
they develop as females. 11. If the contents of the spermatheca of a fe-
cundated queen become exhausted, or, if from cundated queen become exhausted, or, if from
enervation or accident, she lose the power of usenervalion or accident, she lose the power of us so as to he unable to inppregnate the passing egg she will thenceforward lay drane eggs only.
Numbers twelve and thirteen refer to laying These important
propositions we re re
strongly opposed by
many when first adstrongly opposed by
many when first ad-
vanced, but hav vanced, but have
since been proven be-
yond the shadow doubt. The poin which presents point
greatest
diffculty greatest difficulty in
the breeding of bees is the bretding or bees
cnunciated in No. 5 .
It has so far put the It has so far put the
mating of queen bees mating of queen bees
beyond perfect conheyond perfect con-
trol. The situation in
this respect is about chis respect is about
what it was with ref ference to the breed
ing of cattle in pioneer ing of catter in pionee
days, when herds mixed indiscriminate
ly in the woods ly in the woods
If the reader imagine a case where his pasture fields were
open for any kind of open males to roam
scrub mat and mate with
about his pure-bred stock,
he could have some idea of the situation
in the matter of im proving the strain of
bees in an apiary This in an apiary.
The problem which has problem
more than puzled
 scientific apiculture for
tury, and is apparently :ion to-day. Much has ben accomplished
i, isolating the breeding apiary, and by pres ing isolating the breeding apiary, and by prevent-
ing drone rearing in all but chosen colonies, but ing drone-rearing in all
the nut still awaits the cracking by some enter-
prising scientist. How to compel any one prising scientist. How to compel any one queen a hundred selected drones. And he will need to be resourceful, as well as enterprising, to accom
plish what has been tried again and again, with plish what has been tried again and again, withhhould fivery farmid keep bees The line of articles taken up by Mr. Stroschein In "The Farmer's Advocate" of March 31, and
subsequent issues, is a good one. I can endorse most of what he says, and am sorry he is unable to continue them. In some points 1 might be
allowed to criticise his attitude, however. I would not say that every farmer should keep bees. Suc cessful honey production requires time, attention and skill accuired by experience. Not more than If in there were an apiary on every twentieth farm, the nectar and fertilization of blossoms would be
well looked after. What is needed in Ontario not more beckecpers, so much as better beekeep ing. Small, well-cared-for ap better beekeep not for $n$ moment discourage, but small,
nevelected apiaries are only a of bersy diseasmer, and, from the standpoint try. They are too often harbors for disease housands of dollars, is costing the hepartment of arriculture thousands annually in an effort to cramp it out, and the end is not yet. Hence, Wither as a speciality, or as a side line which is $54-2-2$

said, is both handsomely profitable and fascinat- are very wide, the pickers crush the berries. Have ing. It offers a good source of income for young
people of either sex. Sone of your readers inight
be surprised to learn what a number of ladies are people of elther sex. Some of your readers inigh
be surprised to learn what a number of ladies are
joining this division of the Ontario Experimental joining this division of the Ontario Experimental
Union. I am satisfied that quite a number of business and professional girls could get release

## GARDEN \& ORCHARD.

Strawberpies in Young Orchards
It is questionable, said Prof. J. W. Crow at the O. A. C. short course in fruit-growing, last February, whether such long-lived, vigorous-grow-
ing trees as Baldwin and Spy should be planted closer than 40 feet alart each way. For quite a number of years much of therplanting witk, quick-maturing, early be found to give splendid returns. or plums peaches and cherries may be used. These trees
should be removed at the end of about 12 years, should be removed at the end of about 12 years,
but the period will vary with the vigor of growth of the standard trees. A man should not inter
Want in this way, however, unless he has the courage to put the axe to the trees at the proper time.

Jas. E. Johnson, of Simcoe, grows strawberThis last year, 84,000 baskets were harvested berries are grown in a matted row about eighteen inches wide. The rows are forty-two inches apart from center to center. In the first season,
cultivation goes on steadily once or twice per week. In the fall these berries are mulched with
straw. After the first crop is removed, the mower straw. After the first cror is removed, the mower
is run over the ground, then the hay tedder run over the patch. as the whole is dry, fire is lows is plowed, and the rows narrowed to about whole thoroughy cultuated. The mixing of the
fiesh earth with the plants is an advantage, but if esh earth with the plants is an advantage, but
care should be tahen to see that they are not buried. Cultivation is hept up for a time. In
the winter another mulch is put on, and then the
patch is ready for another crop. Aiter the sec patch is ready for another crop. Aiter the sec-
ond crop is harvested, the patch is plowed up. ond crop is harvested, the patch is plowed up.
When the berries are in an orchard where the trees are getting big
on the ground.
In selecting plants for a new patch, the whole
row is dug, and only the best plants chosen. This is important, as the ordinary method of chousing
plants from the outside of the row does not give sood results. In growny matted rows, it is nec
essary to place each runner in its proper place and then chat ond all itu energies in petting ready 0 bear next year.
SPRAYING THE STRAWBERRBLSS. Spraying is done once or twice before hoom,
very heavy application is given of bordeaux made up, of copper sulphate "i pounds, lime
pounds, water 50 gallous. $A$ traction sirayer is
used. This is considereci one of the most impor
tant operations in the growing of the crop. L. A. Hamilton, Lorne Park, also intercrops his
orchard with strawberries Mr. Hamilton is an example earned $h$
rofit. His produce crops of high quallits, home on; he also takas two crops of berries, and then brought out in his address:
Size, color, hardness and quality are the four main essentials in a good strawberry, Size and
color are most important for the home market, lecause consumers pay more attention to thes
hings than to quality. Some of our smaller ber ies are of the finest quality, but grocers and con-
sumers do not seem to want them. Then, too, it is much harder to secure pickers for small her-
ries than for large ones. For shipping, hardness -that is, carrying quatity is pherhaps, hardness important, but it must also be combined with
fize and color.
the pickers pick each half of the rows on either
side of the place where they are walking. This side of the place where they are walking. This
saves crushing of the berries, In regard to varieties. Glen Mary, a perfect-
flowering variety, sems to be best suited to the flowering variety, seems to be best suited to the good, but, as it has a green end, it seems to is good, but, as it has a green end, it seems to be
losing a little in favor. Sample seems to be the coming berry for shipping. Mr. Hamilton is the
perimenting with a number of new variation perimenting with a number of new varietios,
wnich Three W's, Chesapeake, and $\$ 100$ seem be best. These are very promising, and last yea
stoud the drouth exceedingly well. Great stress was laid on the value of sipray ang. This is done with great thoroughness befor sulphate 4 pounds, lime 12 pounds, water 40 gal lons. The first time the patch was sprayed, the
foreman announced that the wines would all die oreman announced that the vines would all die
but they managed to live all right, and the straw berries were magnificent. A rotation of crops is absolutely necessary, roots, strawberries. After first crop is removed the straw is tedded up and burned. One very dry
year the fire injured a lot of the crowns of the plants. At the end of the second crop, the land
is plowed, and sowed to hairy vetch, or sometimes

## Pruning Instructions in Brief.

said Dow heading is the new idea in pruning said D. Johnson, of Forest, at the Fruit Institute
in Lambeth. Whe are buying young trees, and
heading them down heading them down to within eighteen inches of trees. The head of a well-pruned tree should beach
tres about equally open all through, with fruit spurs right down to the base of the limbs. A common mistake is to trim all the limbs up smooth and
clean, leaving only a tuft of bearing wood at the coter and upper end. Such a treo cannot bear a large crop of fruit. It is awkward to pick the fruit, and the fruit is not only more liable to be blown of
by wind, but suffers more when it does bow Wy wind, but suffers more when it does blow off. ago bore 26 barrels of apples, the crop selling for over $\$ 80$. In the case of an old tree that has
been improperly pruned, with the inside all cut been improperly pruned, with the inside all cut
out, and only the large limbs left in the center of the tree, I would allow some suckers to grow up rom sunscald. Io not cut off the low-growing branches unless they are very low. Try to get a tributed throughout the whole tree, but not too
thick, and with the crossing or interlocking thick, and with the crossing
limbs cut out or shortened back.

Treatment for Potato Scab
$\qquad$
$\qquad$
$\qquad$
$\qquad$ hours. Placing potatoes to be treated in a gumny
fack, and then immersing them in a solution, wiil sack, und then immersing them in a solution, will
to found a very conseniem way of handling them.
$\qquad$

## Fertilizing Orchards

 sole give the trees the sole all the plant soil. and, incidentally, all the moisture in the acre of apple, Cornell, has estimated that a would removed from the soil in twonty years, in the form of fruit, leaves and wood, $\$ 377.50$ worth of plant food, valued at commercial-fertilizer orch. He has further estimated that an acre of three years, or covering a period of twenty years,
the Would remove, in fruit and leaves blown or grown every year during the same time, would remove int grain and hay, together, only a little
more, or, say, $\$ 213.00$ worth yet, farmers who devote two years' use of the soil to the production one crop of fall wheat, will expect their or chards in yield fruit year after year, and a crop hat ther hay, besides. When it is remembered amoug the trees robs them of the plant food and moisture during the early part of the season, Then trees have special need of both to produce wood and leaves, the unwisdom of this intercropping in a mature orchard is apparent. Give the ughiy till the middle of dur Gatitudes, until the latter part of June then eow over crops to check late wood-growth, protect had tree-roots from freezing during the winter, and equivalent of five tons or more of manure per acre, which will generally be the case if a legumiorchard may be manured to some extent, the his should be, as a rule, supplemented by an appration of wood ashes, say, thirty bushels commercial potash salts may mes are not available, premented by phosphoric acid in some, instead, sup able form. Urchards make heavy demands availthe potash supply. A very moderate dressing of
iertilizer to use in an orchard where cover crops are grown and plowed under to supply humus and ni trogen, would be 200 pounds muriate or sulphate might be mixed and pounds acid phosphate. These early in the spring. And this amount could proby abre te put on almost every year. The cost per fertilzing varies, according dollars. Of course, amount of wood growth being made, and so the each orchard requiring difierent treatment. No on,
infrequently it is foumd sowing of cover crops, are regularly practiced,
that the wood cessise, and in such cases it may be advisable ex down to clover for a vear or twanure, and seed down, however, should the looked upon as an ex
$\qquad$

## POULTRY.

Limber-neck.
nd and arpear healthy, and then, all of a sudden other apparent symptom than and die, with no
$\qquad$
$\qquad$
intestinal irritation, and this irritation result
he the result of several causes. A frequent may acule indigestion, caused by indiscretion in feed out variation, or the birds may have been withimpure animal or vegetable food, which all tend
to bring on the disease. The most nusily-administered treatment is to give one and oric and a half teaspoonfuls of oil of turpentine nived with equal parts of sweet oil. Half an hour afterwards gite a tablespountul to cach fowl

The Lay of the Ancient Egg. am the Egg
'm the Hen that Laid the Egg.
1 got a Place to Roost and l'art of my board Im the Farmer who Owned
The Hen that Laid the ligg.
got Twenty Cents a loren
I'm the Man who Took tho ligg to the Station
Egg.
Two (ents a Dozen
'm the Express Company that Shipped the Eigg
from the man who took the Eigg to the itation From the man who took the
For the Fiarmer who Owned
he Hen that Laid the Egg
1 got Six Cents a Doren.
I'm the Railroad that Carried the Egg rom the Man who Took the Egg to the Egg For the Farmer who Owner;
The Hee that Laid the Fgg
m the Wholesaler who Cold-storaged the Egg After the Railroad Carried the Egg For the Express Company that Shipped the Egg
From the Man who Took the Egg to the Station For the Farmer who Owned
The Hen that Laid the Fgg.
I sold the Eggs for Forty'
From the Jobber who Passed Along the Egg
From tholesaler who Cold-storaged the Egg After the Railroad Carried the Egg For the Express Company that Shipped the Egg
From the Man who Took the Egg to the Station For the Farmer who Owned
The Hee that Laid the Fgg.
I'm the Grocer who Sold the Fgg
I got from the Jobber who Passed Along the Figg
From the wholegaler who Cold-storaged the Fgg From the Wholesaler who Cold-storaged the Egg After the Railroad Carried the Egg
For the Express Company that Shipped the Fgg From the Man who Took the Figg to the Station For the Farmer who Owned
The Hen that Laid the Fgg.
The Hen that Laid the Fgg.
I sold the Eggs for Sixty Cents a Dozen.
I'm the Poor Devil who Ate the Egg
My Wife llought from the (irocer who Sold the Egg He got from the Jobber who Passed Along the Egg
From the Wholesaler who Cold-storaged the Egg After the Railroad Carried the Fgg For the Express Company that Shipped the Egg
From the Man who Took the Fgg to the Station The Hen that Iaid the Feg

## THE FARM BULLETIN

Must Boss Himself.

they are unavoidable at times, but the idea is not to get the habit. to-day has no reason to feel as Mrs. Hopkins should he be? bielieve, on going to town. Why ashamed of his calling ? Not on account of having to market his product, surely? As to dress,
he does not need to have his clothes cut in the
litest fashion to vie with the ordinary town latest fashion to vie with the ordinary town
diveller. Now, farming is what we make it. If we are
content to slouch around, and let things look after coemselves pretty much, we will find it a deaden-
ing job. The thing to do is to look after our
business in business in a systematic way, getting something
done every day, and doing it right. They say a done every day, and doing it right. They say a
farmer is his own boss. Don't believe it. He's got to boss himself. FARMER'S SON.

## P. E. Island Agricultural Legis-

 lation.The Legislature of Prince Edward Island pro rogued on Friday, April 8th, after a session of
eight weeks, during which 38 bills came before it, of which 36 became laws. Of the total appropriations for all purposes of $\$ 407,44, \$ 6,5 \mathrm{co}$ was
for agriculture, and $\$ 6,850$ for exhibitons. Following is a comparative statement of the
appropriations for agriculture for the years 1909 appropriations for agriculture for the years 1909 Salaries, office expenses, etc $\quad 1909 \quad 1910$ $\begin{array}{lrr}\text { Salaries, office expenses, } & \begin{array}{l}\text { 2,150 }\end{array} & \$ 2,500 \\ \text { Printing and postage } & 1,500 & 1,500\end{array}$ Grants to Institutes, Associa Repairs to farm buildings

Total
The increase for salaries, et. $\$ 6,050 \quad \$ 6,500$ increase of $\$ 15 \mathrm{C}$ for the secretary, and $\$ 200$ for the time of the stenographer that is given to this department.

The grants to Institutes, Associations; etc., are To Farmers' Institutes ……...... | 1909 |
| :---: |
| 816 |
| 1900 |
| $\$ 900$ | Dairymen's Association

Fruit-growers' Association Frut-growers Association
Provincial Seed Fair $\begin{array}{ll}300 & 300 \\ 75 & 75 \\ 378 & 400 \\ 216 & 330 \\ 460 & 640\end{array}$ Agricultural scholarships Prizes, stock-judging

## $\underset{\text { Receipts }}{\text { Total }}$

Net expenditure
$\$ 2,335$
248
$\$ 2,087 \quad \$ 2,440$
year to year. Each Institute sending in an annual report and membership list is entitled to an
annual grant of $\$ 20$, and may receive, in addition, a special grant, not to exceed $\$ 30$, for the purchase of purebred live stock. There are now about 30 institutes in active operation. Association receives, the Department of Agricul-
ture, through the Association, is this year offering cash prizes to the amount of $\$ 240$ to the patrons froaction of milk per cow during the cheese seaforocuction of milk per cow during the cheese seacow for one year. These prizes will not, however be payable till after the close of the present
financial year.
The grant for the Fruit-growers' Association is financial year.
The grant for the Fruit-growers' Association is
to defray the expenses of the annual meeting, and to provide a premium list for the Winter Fruit Show. The annual report of the Association is
printed and distributed by the Department of Agriculture.
The fruit industry is still in its infancy in this Province. Quite a number of people are produc-
ing more than is needed for their own families, ing more than is neenca tor one kind produced to
but there is not sufficient of one
make a shipment. or even to make it worth while make a shipment, or even to make it worth while
packing them. To meet this situation, the Government succeeded in having a co-operative fruit
company formed, and are making a grant towards the expinses of management. It is not expected
that this grant will be continued after the comthat this grant will be continued after the com
any is wrll 'stablished. Prince County Institute. The necessary funds are
raised by private subscription, by grants from Institutes, etc., and the deficit' is made good by
the Iepartment of Agriculture. No admission is charged. and there are no entry fees. Last year the deficit amounted to sind

10 induce farmers and farmers' sons to attend truro, N. Course at the College of Agriculture, Truro, N. S., scholarships of $\$ 10$ each were of-
fered. The number was increased from 46 in 1909, to 65 in 1910, but only 64 were taken. The prizes for judging live stock were given in frncection with the Provincial Exhibition, and the money spent was really a further grant towards
the Exhibition Association, and, as the sentiment is growing that too large a proportion of the money appropriated for agricultural purposes is
given to Exhibition Associations, this grant will

$$
\begin{aligned}
& \text { not be made. } \\
& \text { Six medals will also be given for Agricultural } \\
& \text { Merit Competitions, for the best kept, managed }
\end{aligned}
$$ Merit Competitions, for the best kept, managed The only other legislation affecting agriculture $\$ 25,000$ act guaranteeing bonds to the amount of an amend Che 1sland Cold-storage Company, and The principal stockholders in the Island Coldstorage Company are the firm of Davis \& Fraser,

pork-packers. Their head office is in Halifax. They bought the old pork-packing plant at Charlottetown, which cost its first owners upwards of
$\$ 100,000$, for about $\$ 15,000$, and made arrange ments with the Local and Federal Dapartments of Agriculture for the establishing of a system of cold-storage. As security for the guaranteeing of mortgage on the plant, including machinery, etc mortgage on the plant, including machinery, etc.
The Commissioner of Agriculture is a member of the Board of Directors, and a sinking fund is provided for. The bill was opposed by the Oppo-
sition, on the ground that it was giving the sition, on the ground that it was giving the
Davis \& Fraser Company, who have a pork-packing plant in connection with the cold-storage
plant, an unfair advantage, that would ultimately plant, an unfair advantage, that woul butimatel the whole Province. They claimed, too, that it would be of little value unless a system of cold storage was provided on the railway and steamIt should be of service to the dairy, fruit and poultry industries.
and andment to the Tax Act consisted in the
an appointing of valuators, whose
to value the farm lands in their several precinct for the purpose of taxation. Up to the present
time, each man has been allowed to value his owi time, each man has been allowed to value his own
farm, and, although his valuation was in the form oi a declaration, many abuses crept in that made the burden of taxation very unfair. It is expected that from 40 to 50 per cent. more revenue will
be obtained from the land tax without the rate be obtained from the land tax without the rate
of taxation being increased, through the revalua-
tion. Several other bills relating to agriculture were prepared, but their introduction was deferred fo

## Rural Telephone System.

$$
\begin{aligned}
& \text { ditor "The Farmer's Advocate } \\
& \text { In your issue of March } 24 \text { th appears an articl }
\end{aligned}
$$ ander the caption, "Bell Telephone System," written by H. J. Davis, exploiting his-own line put forth, until the second paragraph, when he begins to belittle the rural-telephone system to rhich his neighbors and the surrounding distric belong.

Now, we are glad to hear that H. J. D. is get-
ing such efficient and satisfactory service from his line of his own, but we of the Rural would ake exception to his latter remarks, inasmuch H. J. I. li
stock, therefore Woodstock is his shipping sta(ion and place of business, and connection with the most desirable thing for himself. But of what possible advantage would free connection with Woodstock (though the rural line may get hose living ten or twenty miles away, whose shipping stations are, say, Hickson, Innerkip or Winnections since these the of 50 miles or more itretches like a network all around these various shipping stations. Even at present, it only costs all practical purposes it is really cheaper than njoys; whereas Woodstock and H. J. D's line, inclusive, have to pay 25 cents to communicate with the surrounding district of 50 miles or more
of Rural phone, even though it be with nearest neighbors.
It is true the Rural 'phone rent is $\$ 10$ per year. hut a portion, at least, of that is returned, 1. I). pute it, "independent
 in time, no thoubt, it will compare even with the uncient and honorable Bell system. But, as for
having 24 , phones on a line, I am afraid that is an exaggeration, or at least an exception. The
a wrage is perhaps about 15; some more, some a aviage is perhaps about 15; some more, some a
great deal less. Nut, as far as the line reaches -

## THE FARMER'S ADVOCATE

FOHPDE 186
very fo each and every other 'phone-holder; an
fet what take advantage of the privile of owning a "phone; whereas, without paying : cents fee, H. J. D. cannot speak to his next-doo of judging between the two services, and have had Rural 'phones installed, rather than have the il J. D. line extended to their doors
by the farmers, and is built for the accommodation of farmers. If it were not taking up too much space, I might refer to the advantages to a farm
er of free connection with all hi threshing and octher times where outside help required, not to speak of the advantages to wives and dughters of the home, enabling the exchange notes on prices of butter, eggs, I have the desire to enter a farming community our friend and neighbor H. J. D., but leave the reader to judge from these facts, whether th
Rural 'phone is such a "/ wayRural 'phone is such a
would lead us to believe.
ings of both systems care conversant with the work ings of both systems care to enter into discussion o those not enjoying the privilege of either

Registration of Factories and Certification of Makers in Quebec
The law providing for registration of cheese
and butter factories, and certification of head
makers, passed by the Ontario Legislature in makers, passed by the Ontario Legislature in
1900 and slightly amended at the recent session, have been accepted as a model for Quebec by the
Hon. D. Caron, Minister of Agriculture, who has and butter factories under the direct control cheese the Government. According to his bill on and after January 1st, 1912, all proprietors of creanories, cheese factories, or factories for the manu-
facture of condensed or powdered facture of condensed or powdered milk, would have
to present a certificate from a Government inspector declaring that their building is sanitary and well equipped, in order to receive from the Manister permission to continue business, and all
new factories would have to secure a permit from the Minister before commencing operations. All head makers would also have to show a certificate inspector, in order to retain their positions from an ing a somewhat critical consideration of the bill in the Legislature last week, an ámendment was made to the bill, providing that only the two or reports on the strength of which the Minister might grant permits or close insanitary factories

Favorable Spring for Market Gardeners.
weeks eurlier than ever before'" remarked a the ing market gardener living near Lemarked a lead
day. "It has been an excellent the other working the land. It has pulverized in fine shape,
and the recent rains wero pust and the rece
start the se
and are now taking off a last of our celery have contracted ten tons of spinach, and are cut
ting it small. ()ur celery is planted year after right kind of soil to permit of rotation of the year we had about as good a crop as ever. We
manure heavily, however nure being put on each 25 square yards. We have
taken as high as $\$ 800$ worth of cellery off an more

The business and professional mew ur Hind are being invited, with farmers, to the number of
probably 2,000 , to join in a great gathering out The State Thiversity, Trhana. on Aumust 16 th .

## Benning's Aypshipe Sale

The auction sale, on April 20th, of 81 head to Wm. Benning at Willinerd of Ayrshires belonging from large attendance of breeders and dairymen United States. The territory in Canada and the brisk, and very good prices were realized, as the the cows showing fine udders and business class, with desirable conformation and type. The highest price was $\$ 590$, for the cow white Floss of Glenhurst, purchased by
N. Y. Ryan, Brewster,
N. The imported
bull, I)rongan Nains Guarantee, sold for $\$ 400$ to W. G. Trethewey, Toronto. Four others sold for 8400
to $\$ 475$, and 44 head brought an average of $\$ 220$. Following is the list of sales of $\$ 1100$ and Silver Lass of (ilenhurst; (metario Aericul
tharal College (iuelph in ond of Glenhurst: wrethowne $\$ 325$ ioss 5 th of Glenhurst Brewstar
Bnd
telle 2nd of (ilenhurst , 1, Gramam
Floss 3 rd of Glenhurst ; Hector (Gordon.

Way 3 rd of Glenhurst ; Fd. Maxwell, Ste.
Anne de Bellevue, (Que. . Hunter a Sons.
Maxville Rose of (ilmhurst, Wy Walker, "Inchester
Primpose Sral of Glenhurst. Hid Wayell Primpose 3rd of (ilenhurst, Fd. Maxwell....
Ruth of (ilenhurst: W. (i . Tret hewey Rose 3rd of (ilenhurst (). A. (c. (iuelph Ruth 2nd of (ilenhurst: O. A. C. Guelph rimmose 2nilenhurst, iw. ©. Trothewey Thite Floss of (ilenhurst: Fid. Maxwell.... Glenhurst Cherry : O. A. Fd. Ruyan Closs 6th of (ilenhurst: W. © Trethewey Glenhurst Pippin: E.d. Ryan ................ Glenhurst Violet: IR Hunter \& Sons ....... 118 ilenhurst Floss a. W. Macinturo :Ilenhurst Killowic Maid. w MacIntume White Ada of Gilenhaict I2. Hunter \& Cons Madeline: R1 IITunter \& : Sons W. MacIntyre Adeline of (ilenhurst: R. Hunter \& Sons... Floss (iems of (ilenhurst: ir. Hunter \& Sons White Leda of ©ilenhurst ; W. I eitch ......... Shite Ruth of Glemhurst: R. Hunter \& Soms Wenhurst Jean \& 12. Hunter \& Sons hons 110 White Molls of (Blomhurst: A. W. Maclntyre 2014 White Rose of (alenhurst A A MacIntyre 1010
Cilenhurst (2ueen Floss : A. W MacIntyre
200
$\qquad$150

Phenomenally Early Spring. from widely-varying localities. In Western (n) tario, the season of growth must be almost thr a.eeks ahead of the usual. April weather in March and May weather in April, has been the experienc cer a considerable part, at least, of the Republic er, by month now concluding barly seading in the ported from the West, while an unprecedentedly ear region of x and lakes in the Peace Rive tranded hundreds of miles from their destination hat Fargland, too, comes word in our exchange fortnight. dense clouds of it thaty abundant

A Thousand a Day

$$
\text { was } 33,065 \text {, us comparet with } 16,464 \text { for March }
$$

$$
\begin{aligned}
& \text { last yoar. During the fiscal year ending March } \\
& 31 \text { st, } 2118.794 \text { immigrants arrived in Canada }
\end{aligned}
$$

$$
\text { ncrease of } 42 \text { per cent. Of the } 208,794 \text { immi }
$$

In

$$
\begin{aligned}
& \text { Previous fiscal year } 1908 \text { - } 199 \text { ), } 146,908 \text { came t1 } \\
& \text { (Cunada, } 59,832 \text { from the Vnited States and } 87 \text { ? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { cunada, } 59,832 \text { from the } \text { inited states and } 87 \\
& \text { ofe by ocean ports. The immiration for March } \\
& \text { last was the largest in the history of Canadian } \\
& \text { immierat }
\end{aligned}
$$Advocate," and secing reports from some of th

what had becongt someone might be wondering
(44) barley, oats and peas are in most districts looking
tears. The corn land is being prepared, anditions arThe plo

$\qquad$es aretheir fine herds of swine, also the ones just antaldes compiled by A. Intosh130) Show that, since 1891 , the rural momelation
175. villages has increased allout of the towns and

Commenting on the refusal of the Dominion

Commenting on the refusal of the Dominion "er icgislation disallow the Ontario hydro-electri
$\qquad$
$\qquad$ Williamstown (a. H. Mc(iillitray
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

TRADE TOPIC
MAPLe hed

strations at the sources of exact information and den-

and


David Lloyd-George
of the Fixchequer,
the famous * Budget

The Windrow.
In Bosnia, the ballot has just been
granted to women with a property qualification. William R. Hearst has issued statement warning the American
people against a renewal of Roose people against a renewal of Roose
velt rule.
Jewels valued at half a million dol lans were stolen from the Uspensk Cathedral, in the Kremlin, Russia
last week. If conditions are normal, Halley's comet will be visible after sundown
about May 10th, possible a day or two before or after. ist of the world, died at his home
Redding Conn age of seventy-five. He never reOver 86,000 packages of seeds are being sent out by the floral depart
ment of the Canadian Pacific Ruilwa Company this year for planting o
the Company's property. Fach pack
$\qquad$
$\qquad$ Chicago announces that Mrs. Potte
Palmer intends to establish a gold
medal, carrying with it a prizesculptu
best witpaintine is no limitation as bet wee
to the time in which the work may
nied the right to wote, Mrs. Fill
lected to cast his vote during the ployment awaiting him and his wife,
day. By her act she performed a if they go alone, but if they bringduty for which every citizen will re- their children, there is none. This
spect her, and which is worth much is what he reports:-more than all the noise made by the "As the prospects of my obtainingshrieking sisterhood of suffragettes.- employment do not seem very hopeUpton Sinclair's disgust toward see your way to pay our passages tothe packing concerns, and all that in another State, where work may be
them is, evidently continues. .For more readily got. I fully realizthem is, evidently continues. ' For more readily got. . I fully realize
the past year he has taken to a vege the difficulty there is for marriedthe past year he has taken to a vege the difficulty there is for married
tarian diet, living principally on people in securing situations if thetarian diet, living principally on people in securing situations if they
nuts, bananas, dried fruits, raw have what is, known out here as "enfruits, lettuce, tomatoes and celery, cumbrances." For during the past
with soaked whole wheat and break- nineteen days I have called myself awith soaked whole wheat and break- nineteen days I have called myself at
fatst foods for variety. He believes many places in search of work, butfast foods for variety. He believes many places in search of work, but
that he is healthier and better for invariably have been told that with
the change.the change. "I believe," he says, two children there is no chance for
"t that our monkey ancestors lived on us."raw food, and that our alimentary No. II. is a good farm hand, who
canal is designed for it; and that can drive and repair motor cars, andwhen we refine, concentrate and soften his wife a good cook, and laun-our food, as we do, we not only take dress, but their only chance of get-
In three times as much nutriment as ting employment is to leave theirwe can use, but we deprive our food child with someone else. He writeswaste which is necessary to fill the thoroughly satistied with were both
colon and stimulate peristaltic ac- bilities and references,colon." and stimulate peristaltic ac- bilities and references, and I quite
tion." Incidentally, he is saving thought that at last we were aboutmoney. At New York winter prices, to start work; but I am very aborry
his living averages $\$ 2$ per week; but, to have to tell you andif he wished to economize, he says he boy has proved an obstacle. While
would not go above 20 cents a day Mr.
for a moment
engaging mar- antertain would not for a momen
Our English Letter
Our Enelish Lettera
have our child with us there is notOMPARISONS OR CONTRASTS - much chance of our getting a situa
WHICH?
tion could you assist us by getting
our child takion
f space necessarily occupicd amount
to carn some money?"
The best registry offices in the statecolumns of the daily press of every The best registrey offices in the Stat
shade of political opinion at this have been offered a bonus of $£ 3$ t
crisis of our Empire's history sal
tion of the subject without a men
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
all hut has roomeng and occupation for
$\qquad$ knows when
be stopped? be stopped? Nevertheless, let it be our emigrants place themselves and neath the shield of Protection. Thes go where they are allowed to gather Canada they are not crushed beneath the weight of free imports. For the first time in their lives they start in
the race of industry without a fatal he race of industry without a fatal
handicap. it is idle to affect sur prise that 30,000 cross the sea in a single month, not from lack of ray of comfort that we may admit rich a British Colony, not to increase the strength of a hostile power." and am getting perilously near the political aspect of the subject, with which 1 do not presume to meddle. ${ }^{1}$
will only say that Fngland seems will only say that Fingland seems to hatitude taken by Canada in relation to the mutual concessions and negouture commercial relations with it ext-door neighbors, the citizens of
he United States. "Canada is in whendeas the re mother of her tariff; whereas the mother country has no
tariff to use as an argument, and
$\qquad$

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THE FARMER'S ADVOCATE.
progress of William James Sidis, the eleven-year-old boy who graduated
into Harvard University last Septem ber. At six years of age he entered
the grammar school, and at eight was studying the calculus, and surprising the high-school teachers with original observations on the mathesion. He was reported to be elso sion. He was reported to be also
proficient in history, astronomy and the languages
Prodigies are always curious; but
what makes this particular case more what makes this particular case more
interesting than curious is the clain made by his father, Dr. Boris Sidis, of Brookline, Mass, a medica! psychologist, that he is a normal boy,
whose remarkable development is due not to innate talent, but to the
training he has received. Taking Dr. Sidis at his word, the natural inferage ability might be trained so as to graduate into the university with high honors at eleven or twelve years of age, and that the blame for their
incompetence to do so rests upon the chools. One editor puts it thus. When so many are complaining that worked, it affords some measure of elief to turn to the case of William People who take such comments seriously proceed to condemn the schools and to do injustice to both
teachers and normal children; and teachers who take them seriously may feel it a duty or make it an ex-
cuse for increasing the book-burden on children who are probably already
overladen. The truth is that the unusual natural aptitudes of this boy were skiliully exploited by both which he has excelled. Fiven under hese circumstances, we are not surprised to read the newspaper reports
of the day, "that young Sidis has Hope's Quiet Hour.
 hought I would like to hear an assay
 Prayer
$\qquad$
 Nad every breath is ilike a lituny ; 19 woren tho the sweet concecoussess Our correstondent-in asking tor int

 vith God, lite Emoct, havng our ayes

## nce here in this workatay wortal








 Mush somethng of tha inaypration ...

cleanse us by His miracle of forgiveness the child to be ruined by indulgence in
while we blacken and poison our souls foolish desires. by refusing to be in charity with His Father. Prayer would be the deadliest
other children. Prayer, then, must be power we could uso if God wera to give the natural exprassion of love, fellowship power we could uso if God were to give
with our Father the thing we asked for the With our Father and our brothers. If moment the prayer was offered. We only
we are looking up, in the wonderful con- dare to ask for anything because-under seciousness of God's nearness, the words
lare to ask for anything because-underused cannot be wilful. We will not in- viso: "Not my will, but Thine, be
sist on having our own ent sist on having our own way when we done." Our Father loves us too deeply
realize that His perfect love and wisdom to give us anythine which can dray down realize that His perfect love and wisdom to give us anything which can drag down
can be trusted to give what is really
our souls through worldliness or love of
best-our Father knoweth what things we comfort. We want to grow strong and


$$
\begin{aligned}
& \text { The mection of tapeeatry embroididerad by queen }
\end{aligned}
$$

have need of before we ask Him. Then noble, patient and brave. If we seem the quiet majesty of the Lond's prayer is get no answer to our prayers, let us
put before us as a pattern, in which look up and thank our Father that He is put before us as a pattern, in which look up and thank our Father that He it
God's glory and the increase of His royal giving us a chance to grow patient and power over the hearts of men come first, trustful. We can only win the grace o and
and our own needs (never separated from Patience by enduring patiently. We can
those of our trothers) are laid in simple only win the grace of Trust by accepting Those of our brothers) are laid in simple only win the grace of Trust by accepting
trustfulness before Him. We ask for trustfully from our Father's hand many trustfulness before Him. We ask for trustfully from our Father's hand many
daily food, strength and forgiveness from
gitts which we cannot understand-we
One who has infinite power to uphold us may not learn their value until death One who has infinite power to uphold us may not learn their value until death
has given us wisdom; but, because they
all through life. all through life.
Then the second reference ( $S$. Luke xi.: has given us wisdom; but, because they
come from our Father, we know they are

9-14) reminds us that we must come to
God humbly-as sinners-not priding God humbly-as sinnere-not priding our-
selves on our righteousness. see made the great mistake of comparing
himsell with nimsell with other sinners, instead of
looking up to the awful purity Inoking up to the awful purity of God
and placlng his life in the light of His
tnce so that it and placing his life in the light of His
fnce so that it might be honestly ex-
amined. amined. The publican was not justifed,
because he was a sinner. He did not because he was a sinner. He did not
say-as many, who claims to be like him, say-as many, who claims to be like him,
are constantly saying-"I thank God that
I am no hypocrite, like this Pharisea are constantly saying-"I thank God that
I am no hypocrite, like this Phariseo
who think s himself so good." Those who thinks himself so good.". Those
who pride themselves on "making no prowho pride themselves on "making no pro-
tession of sanctity" are not only stand-
ing proudly on a pillar, like the Pharitession of sanctity" are not only stand-
ing proudly on a pillar, like the Phari-
see, looking down on their neighbors, but are worse than the Pharisee. He prided
himself on his righter nimself on his righteousness, but they pride
themeelves on their unrighteousness can they gain the grace of Holiness if they do not admire and care to win it. And
these self-styled these sell-styled "publicans" make the
same mistake as the Pharisee of comparing and measuring themsesves with their
fellow-sinners, instead of comparing their lives with the Pattern Life of the one verfect Man. Humility is one of the tcel our weahness and need, before we can usk honestly and earnestly for strength and help. The message sent by the Lord ㅇ. the Church to sell-satisfed members is searching as when it was delivered to
the Laodiceans:
"Because thou sayest I am rich, and increased with goods, and have need of nothing: and knowest not not
that thou art wretched, and miserable, that thou art wretched, and miserable,
and poor, and blind, and naked: I counand poor, and blind, and naked: I coun-
sel thee to buy of the gold tried in the sel thee to buy of the gold tried in the
fire, that thou mayest be rich; and white raiment, that thou mayest be clothed, and
that the shame of thy nakedness do not that the shame of thy nakedness do no
appear; and anoint thine eyes with eye
salve that thoul mayest salve, that thou mayest see." The more
we study God's holiness, the more eagerly we study God's holiness, the more eagerly
we shall desire to be like Him, and the roore earnestly we shall covet the best sifts. Those who are praying for the
Holy Spirit's power Holy Spirit's power to sanctify and
beautify their lives, can safely trust the「ather to supply, all things that are
necessary for earthly happines necessary for earthly happiness.
The last reference ( $(\mathbb{S}$. John xiv
is "Whatsoever yo shall ask in My Name,
 anything in My Name, I will do tr.
The same thought is, you see, twice re-
feated. Plenty of people will say that 1eated. Plenty of people will say that
they have asked something, over and over they have nsked something, over and over
again, in Christ's Name, and have not received it. Has He then failed to koep
His promise? Let us look again at the $\begin{array}{ll}\text { His promise? Let us } & \begin{array}{c}\text { look again at the } \\ \text { text and the context. } \\ \text { This promise was }\end{array}\end{array}$ text and the context. This promise was
made to disciples-true and loving, though
weak, disciples. Judas had already left weak, disciples. Judas had already left
them. So, one who has the right to hem. So, one who has the right to
claim the promise, is only a disciple who claim the promise, is only a disciple who
loves his Master and is pledged to accept
whediently whatever is His aill obediently whatever is His will. Then sked in His Name. That does not Hean only the use of the familiar words, "through Jesus Christ our Lord,"' places the petition absolutely in Christ's
hands to deal with entirely as He sees hands to deal with entirely as He sees
linst. It is His business then, not ours He will only undertake it it we trust
Him to send the answer when and how Him to send the
He sees to be best
or years, is very precious in the eyes of ur Filder Brother, and the answer is
alisolutely certain. The more trustully o leave the matter in His hands, the
nore perfectly He can and will answe
$\begin{array}{ll}\text { Indectl } & \text { He } \\ \text { He can and will answer } \\ \text { He }\end{array}$
nough to recongize the clear-sighted
nomer. He
gives us beautiful proof of His faith tu cur loyal love, when He gives uas the
privilege and opportunity of trusting privilege and opportunity of trusting
where we cannot see. if we could see, we should have no chance to trust. Let we should have no chan and hold up our hands and hearts to receive the gift-it will be far more splendid than we expect
"This is the confidence we have in Him "This is the confidence we have in tim,
that, if we ask anything according to His will, He heareth us. And if we ask, we know that we have the petitio "sk, we kew that we have the petition 1. Wrading together beforn our Pather.



The Franz Hals Family Group.
This painting, by the famous Dutch artist, Franz Hals, was for many yearc
The farker, Otto Kahn, for $\$ 500,000$, the highest price ever given for a painting; It Franz Hals died in the poorhouse. The painting represents the artist, his fite, son, daughter, and little black page.
$\qquad$ Wiflas: and he sent reveularly to schowl. Sure that the little crosses each are semt


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ment. We do wonder, though, that the
should adopt the methods of street rio ers and mobs. We have a right to look for statesmanlike conduct in those that
aspire to be statesmen (or stateswomen) spire to be statesmen (or stateswomen,
Who would think a person who would break a bottle of corrosive acid over a ballot box, or one who horsewhipped a government official, or threw stones from
roof into the midst of a ministerina banquet, fit to have a voice in governnent? Surely no one. These are not the only women, how-
ever, who have brought down the world's contempt on themselves by their ridicu-
lous conduct in public positions and their as if woman, as far an a public lifty is ioc
cerned, has, to use an everyday expre sion, reached the end of her string. A
-minent professor says. "The most di quieting feature of the times is the re volt of woman against her motherhood,
and her claima to be on an equality with han, and to compete with him in every Now, what is the cause of all this? co education of woman is still in an to rival man and set up a war between
he sexes, lost her greatest power in the World. I think I can best explain what
mean in the words of $n$ New Wor auyer, who was asked at a banquet to aid, II rise to do honor to woman, once ueant that in stepping out of her natura) ingdom, the home. and attempting he had lost her wonderful power over That is man's opinion, and woman is
fast coming to see that home provides scope for the exercise of the very great-
est ability and the very highest intelligence. Through the home, too, she can
best influence the world, for there she has the making of the future men, and "the hand that rocks the cradle" is in-"
deed "the hand that rules the world." History is full of examples of the influ-
ence of woman in the making and gov ernment of nations, but that influence was always exerted through a father,
son, brother or husband, who went out son, brother or husband, who went out
into the world and carried out the ideals Which his "ladie faire" expected him to

exemplify. King arthur thus stated his | chargs. to his |
| :---: |
| Round Tablis |

THE FARMER'S ADVOCATE.

She looketh well to the ways of her
household, and eateth not the bread houschold, an
of tdleness er children r blessed: her hustiand and also, and her
praiseth her praiseth her.
or is deceitiul
but a woman that feareth the Lord
bhe a all be praised that

Burns, in his most beautiful poem,
The Potter's
The Potter's Saturday Night." after


An Attractive Home.
 grandeur springs,
Which makes her loved at home, revered
abroad.
abroad.
Irinces and
and
An honest man's the noblest work of

## Then howe'er crowns and coronets be

man steps of Nature, shares with His nights, his days; moves with him Stays all the fair young planets in her If she be small, slight-natured, miserable,
How shall men grow?
For woman is not undeveloped man the man
Sweet love
rent.
virtuous populace shall rise the The man be more of woman, she of
man;
He gains in sweetness and in moral
height;
She mental breadth, nor fail in child-

Like perfect music unts hersely to man


Farmhouse 300 Years Old

Recipes-Cleaning White Kid.
contented and happy, although she is
confined so much. I hope she will be contined so much. I hope she will be nember me to Forget-menot and Vera Newdrop's buckwheat pancakes are de Would any of the Tngle Nookers tell mo good way to clean white kid gloves? good way to clean white kid gloves?
will now close my letter with recipes. Farmer's Fruit Cake.-Three cups dried apples (soaked overnight), two cups of wolasses. Chop the apple, put in mo
lasses, and simmer on the stove two hours; one cup of sugar, one cup of butter, one cup of buttermilk, four cups o one heaping teaspoonful of baking powder sitted in the flour, spices to taste.
Buttermilk Cake.-One cup of white Buttermilk Cake.-One cup of white
sugar, butter or lard size of an egg, one
egz, one cup of buttermilk, one nutmeg, egg, one cup of buttermilk, one nutmeg,
.ne teaspoonful of soda dissolved in but-
iermilk, half a cup of chopped rais. termilk, half a cup of chopped raising,
four (not too stifi). if you use lard, Add a pinch of salt.
Cake Filling.-Halt Cake Filling.-Half a pound of figs or water, half a cup, of granulated sugar;
cook until it thickens somewhat: put in silling when nearly cool. blue-Eyes. To clenn white kid gloves or shoes, get
a clean white cloth, dip a corner of it in gasoline, then in powdered chalk, and rub the soiled articles until all the dirt is roair, but not in the sun. Never use gaso-
line in a room with fire or lights of any
kind kind, nor yet in the direct sunshine, as it
is very inflammable. Always keep it is very inflammable. Always keep
tightly corked, and in a cool place.

> Flies on Plants.

1 saw some time ago in "The Farmer's ^dvocate," a question asked about house
plants affected with white worms with little flies and small were the very same. I tried a plants of a good suds, not too strong, made of Lions, wetting and put on two applicaplants. It has earth well, but not the worms, and the plants are looking and doing well. The question was asked if they do mrs. W. A. Mcmullen.

Flies egrs, the eggs hatch into Clarves" (worm-like creatures), these in in turn are transformed into "pupes," and
from the pupa-cases the flies emerge fullfrom the pupa-cases the flies emerge fuil-
grown.-This is the explanation given by scientists. The transformation may be liserved by anyone who will take the
ime. A Wedding
A little lady asked a question about a
wedding, but forgot to give name and Nddress. but forgot to give name and wer questions lor anyone except subecribers, or members of subscribers' families, whogive full name and address.
Wiil correspondents kindly remember to ask questions at leas
answers are needed.

Doing Up Strawberries
Dear Chatterers, -At the earnest request
of Lankshire Lass, I draw in my chair once more to your happy Circle. I have
been uromising her for a long time to
write to the Nook, but have felt too sorNowfe to the Nook, but have felt too sor-
co do so. 1 lost my only boy, a lear child, almost five years of age, last Ninter. Ho was my first baby; all
mothers know what that means. I had
moty only two before he died and now I have N time for breakfast Chritetmas morning,
o) there are more than two Ingle Nools Now, Chatterers, I suppose by the time Now, Chaterers, I suppose by the time
this letter aypears in "'The Farmer's Ad-
hocate." the house mothers will be think"ocate" the house mothers will be think-
"K atout strawherries, so I am going to
"wn five you a new recipe for doing them up
without corking. They are lovely without corking. They are lovely
through the winter, and leep just as well
$\qquad$
$\qquad$
$\qquad$

## Before You Buy a Walking Plow, Examine the Cockshutt



A
LL walking plows, no matter how carefully constructed, should be thoroughly tested before being placed on the market. We test every plow before leaving the factory and we know that these two draw much lighter than ordinary walking plows and they will clean in any soil.
As regards the quality of the materials and workmanship, both of these plows - in fact, the whole Cockshutt line-are recognized by farmers all over Canada as being far superior to any other make. We strongly advise you to put your money into one of these implements-they represent honest construction.

No. 11 This plow has been particularly designed for clay land, and it is certainly proving itself a leader in this class of work. The beam is made of very heavy high carbon steel and will stand the strain under all soil conditions.
The mold board is made of special soft centre crucible steel and the share of the best grey iron, chilled extremely hard

This plow is always furnished with knife colter unless otherwise ordered. We can furnish jointer and wheel if desired. An excellent general service plow, that will give you complete satisfaction.

No. 21 Unquestionably the most popular walking plow in Canada. The extra leverage afforded by the long handles makes the plowman's work very easy.
The mold board and share are made of the same high quality materials as in our No. 11 and the workmanship throughout is the very finest.
This plow turns an excellent furrow from 10 to 12 inches wide and from 4 to 8 inches deep. Shipped with knife colter, or can also furnish jointer and wheel. Let us send you further particulars of this plow and refer you to our dealer, because we know that this plow has merits which will appeal to you at a glance.

## We show below an illustration of our plant at Brantford. It is here that we manufacture over

 120 different styles of plows and the most complete line of cultivating machinery in Canada. Our Catalogue describes mostIf you are interested write for Catalogue

## COCRSHUTT <br> PLOW LIMITED <br> BRANTFORD

APRIL 28,1910
the real strawberry avor in the whater nud no standing over a hot stove. I hav
tried it, and been successful.
Quebec. Bleaching Mull or Muslin I have a mull dress which is faded by
the sum. It was light blue. Can you tell me what 1 can do to make it white Durham Co., Ont.
Scientitic American gives the following
Uleach: Misil in strong solution ot caustic soda, rinse very thoroughly in clear water, steep for halt an hour in a
strong, clear solution of chloride of lime strong, clear solution of chloride of lime
in water, wring out, and rinso in water
containing three-per-cunt Ontaining threeper-cent. sulphuric acid
Rinse thoroughly in running water This is for calico. I should think weaker solution of chloride of lime would
to for mull. Remember to have th crystals quite dissolved, as, it any o them remain, they may burn the tabric
1 believe 1 should try a teaspoonful of believe 1 should try a teaspoonful o
chloride of lime to three quarts warn water, and let the mull stand in the mix ture for about an hour. If not white enough, the solution might be made
little stronger, and process repeated

Poultry Lice-Questions.

Dear Dame Durden,-As 1 have read s
wany useful articles in the Nook, I would like to thank you and the editors of "The Furmer's Advocate" for the light
you have thrown on so many subjects you have thrown on so many subjects
It's which will get "The Farmer's Advo1t's which will get "The Farmer's Advo-
"ate" first when it comes in the house.
I have just read "How to Rid Poultry I have just read "How to Rid Poultry
of Lice." Sulphur is good. but the quickest lousekiller It is ever tried is
Quassia Chips." it can be got at any cruasslu Chips." It can be got at any
crug store. Buolil and strain, and put on with a brush, holding hen by the feet.
('an any of the writers tell me any Uing about guinea hens, and where can
to 1. get peahen's eggs?
Can cement be made a light greer
Color, and how ? Also, what would it cost to have a
Countain made, and could water tonken from a cistern to it, a distance four rods ?
A REABDER OF . THE AD VOCATE." Amall. advertisement placed in ou
.Wants and For Sale". column will quick "Wants and For Sale" column will quick
"y ling you information re exks. For greell collor in cement, add half a
fonland of yellow oche to 100 hs. ce thent. If this does nut turn it green
enough, adi a little Prussian blue.
Exx
neriment with the leriment with the quantity until yo
have the ripht proportions for the shad To have a fountain, you would need nither a gatoline ensine and force-pump
with a return pinfe to carry water bac to cistern, or an elevated tank, with
winduull. - Ammonia Cookies.

 Heat lard and sugar, add lemon, dissolve
pmomonia in warm milk, add egcs, salt and flour. Don't mix too stiff, roll thin
wick with fork, bake quickly. Canning Fish and Corn.
 Diamond Dyes

If the little one's dress has become soiled or faded you can restore its color and freshness with a bath in Diamond Dyes. Or you can change its color just as easily.

A ten-cent package of just the rignt shade will dye old, faded soiled clothes so they'll look just like new. And not only look new, but the chemical action of the dyes will add life to the material and give it longer wear.

## Diamond Dyes For You

may have tried dyeing some old material before and were not satisfied. But it wasn't Diamond Dyes you used. Diamond Dyes are far superior to any in the worla, and give perfectly splendid results.

After trying them once, you'll use them with pleasure on many things you have in the home that seem too good to throw away. There are a thousand uses for Diamond Dyes-and each one

## You Take No Risk With Diamond Dyes

You can use Diamond Dyes and be sure of the results. You can use them with perfect safety on the most expensive piece of goods-and there is no danger of the goods becoming spotted or streaked or harmed in any way. Faded hosidy gloves, veils and feathers can be made to look like new with their use
kinds are ribbons, sashes and trimmings of alt kinds are given new life and added beauty suits-Diamond Dyes are invaluabled garments, skirts, waists and Diamond Dyes are "The Standard of the World " and the only dyes perfect in formula, positive in action, certain in result

THE TRUTH ABOUT THE USE OF DYES.






 whether he sells Diamond Dyes)., and we wel Annual, a copy of the Direction Book, and samples of dyed cloth, all FREE. Adaress.

THE WELLS \& RICHARDSON CO., LIMITED,


dignity of agriculture as a calling. Un- before,--the blessings with which he is
questionably, it is worthy of the best surrounded. If a holiday is not feasible,
that is in men, but whether arricultur sole that is in men, but whether agriculture he substitutes a a hobby or rerereation, only
attains and holds its high place depends,
as has beon stated onething along mental lines, for it is as has been stated, on the men who en- the physical which requires, relaxation.
gage in the occupation. Are they men It may be music, the study of astronomy,
of gage in the occupation. Are they men It may be music, the study of astronomy,
of sordid ideals? Then their calling is or standard literature, which is his fa-
degraded. Do they degraded. Do they cultivate the mer- vorite pursuit. Whatever it is, he find
cenary spirit, value cenary spirit, value all things from the interest and pleasure in cultivating it
standpoint of dollars and cents, regard and, incidentally derives col seandeoint of dollars and cents, regard and, incidentally, derives considerable
anything approaching culture as unneces-
sary to their business
mental culture and information. sary to their business? Then they fail It is right that this high type ot
to realize the importance of equipping farmer meprosin in to realize the importance of equipping farmer be progressive in ideas. He must
themselves for the high duties of citizen-
shimeep pace with the times. He invests in ship, nor is it any wonder that the com- keep pace with the times. He invests in
munity at large is not imperesed machinery, which with whelp him
mespect for the agricultural calling and to better do his work and economize in
resper respect for the agricultural calling and
is inclined to regard it, indeed, as a
business rat business rather beneath the dignity of a
person of any degree of social standing person of any degree of social standing
or culture. Yet, we assuredy believe
that the men engaged in the farming oc-
cunation. as a clase cuation, as a class, compare favorably, and unostentatious, he gladly adds those
aye, to a decided advantage, with the the followers of other occupations. Wy vir- ful and artistic, which help to make the (ue of their calling-the life of toil lived The highest type of farmer strives toward physically stronger and more healthful, culture, and as surely as he develops
possessed of a moral wholesomeness and
andinsic qualities of self-reverence
an
self-knowledge, self-control, he attains it an independence and intelligence of of Selt-knowledge, self-control, he attains it
thought which cannot be cultivated else- The tinage of the irrepressible jest col-
umns of the newspaper concerning Farmer where as well as out in God's abundant
pure air, benutiful sunlight, and great
stretchos of onth sund But let us more particularly consider of tarmer does not drive into town in
the highest type of farmer. A concise converance and careless at
tire. Respect for his colling the highest type of farmer. A concise
definition of him might he: he, who,
with forethought, diligently and intellievncty cultivating the soil, thereby wrest-
ing from it a good measure of health
and al fair meacuro and an fair measure of wealth, does not a motto which the lite of the highest typ of which he is a citizen, to the com- com- necessity, because he is of the tarming
population, he finds plenty of scope for
munity in which he lives, und sclf. He is, above all, a man of broad
thought and observation. Along those
lines which relate to his business, he has
considerable knowledtye, born of experiConsiderable knowledge, born of experi- and strength of manhood. But much
ence, or accumulated by his hathit of ob- toil is apt to lead to an apathetic mental ences, and profiting thereby men's experi- Nor is he, state unless it is coupled with intelli-
gence. The highest type of farmer is not in his turn, chary of giving a
farmer the benefit of his deductions. He human machine, a slave to toil. No pases to consider how he shall do
studies his work trom the theoretical, as this thing or that, and thus develops instudies his work trom standpoint. He is
well as the practical stan
a man who is not too indiferent or type of farmer stands for integrity, th
great national asset,-the strong pill
upon which our national greatness rest upon which our national greatness rests
The salutary influence of environment in
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$\qquad$ Queen'suniversity and College $\begin{gathered}\text { knassrov } \\ \text { oxrace: }\end{gathered}$
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ARTS
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EDUCATION
THEOLOGY MEDICINE
SCIENCE (Including Engineering) The Arts course may be taken without位dance, but must attend one session. were 1517 students registered session 1909-10. I4 GEO. Y. CHOWN, B.A.
Kingston, Ontaria Please Remember to Mention "The
Farmer's Advocate" When Writing

## THE FARMER'S ADVOCATE



AMAZED AND DELIGHTED-THOUSANDS OF WEARERS-EMTHUSIASTIC PRAISE Could Mowhere Mear Realize the Wonderful Advantages of Steel Shoes Until They Actually Tried Them! Strongest-Easiest-Lightest-Best in Every Way!




| term, may and does mean much more than the mere perusal of a printed page-it may and does mean the right observation and interpretation of our own mental proc- esses, as well as those of others; but it means more than this-it means the wise tion, thought, perusal. The farmer must ods-to the extent of his ability. He invoke her aid-by knowledge and obedience of her laws, and the right ordering his own efforts. The highost | such, or is evolved by reading-by know ing the signs of the times-by understanding his own powers, developing and using those powers to the fullest. Focus attention upon chosen pursuit, at the same time admit as many side-lights as possible. Findeavor to know something of all subjects; everything of one. <br> Kent Co., Ont. W. J. WAY. <br> Clerk-Revolver; yes, sir. Six-shooter, sir? <br> Customer-Better make it a nine-shooter. I want to kill a cat. | GOSSIP. <br> LAST C'ALL FOR PARDO'S SHORT <br> HORN SALE <br> The high price of beef cattle, and the good demand and bright prospect for improving prices of Shorthorns, both in Britain and America, should serve to en courage the founding of herds and strengthening of existing herds by pur chase of desirable breeding stock. The auction sule of the entire herd of T. L Pardo \& Son, of Cedar Springe, Kent Co., Ont., to take place on May 3rd, should attract the attention of lovers of | the red, white and roans, as there are richly-bred Scotch families represented, as well as good milking strains, and the probability is that good bargains may be obtained. Electric cars connect with M. C. R. and P. M. trains, and will be met at Cedar Springs. <br> Itobert Miller, Stouffille, Ont., announces in his advertisement in this issue that he will shortly visit England and Scotland, to import pure-bred stock of various classes, and will undertake to make selections on orders. |
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Insure your mares and foals against risk of death during foaling. Why take a chance of loss of a valuable mare when a policy in

The General Animals Insurance Company of Canada you against loss while en route, from any cause whatever.

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For clean, close skimming and durability the MELOTTE has no equal. It costs more, but get the best. Have a MELOTTE sent to your farm and prove this for yourself. * \% *

Every machine guaranteed to the customer. Unsolicited testimonials received every day. We will send our Book et on request. Enquiries invited. \$ \% * * *
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TORONTO.


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seo motro Dame RL $\boldsymbol{\pi}$., Mootrral, can
Lucerne Stock Farm
FOR SALE



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When the larder runs low, when the fuel gives out, when an article of furniture is needed - the Bell telephone is a ready help to the housewife. It reaches the sources of supply.

Telephone trade is not confined to consumers and retailers in one locality. The Local and Long Distance Bell Telephone reaches all localities and brings together widely separated merchants and customers.

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sing "Celeste Aida" in the
Edison Phonograph
The New York Tribune The New York American
says: "Mr. Slezak dominated every "It is but a trifling with words, of
scene, and his clarion voice rang $\begin{array}{ll}\text { out superbly in the climaxes. Hang } & \text { course, to say that he was the great- } \\ \text { est Rhadames that ever appeared on }\end{array}$ ang the Celeste Aida witn efrect- the American Stage. The house was
veness, and the Nile scene with crowded and the fire and passion, yet always with force; yet it was Slezak nees out in
hese comments represent of all who heard Slezak at the Metropolitan in opinion Rhadames. Could you ask for better evidence fthe for Slezak is the greatest lyric enor since the das of an that
He sings the "Celeste Aida" and the erdi's "Otello" exclusively for the Edison Phonograph The Slezak Records are Edison Grand Opera Amberolsplaying longer than any other Records made.
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| Splendid utility stock, extra heavy layers, setting. Illustrated catalogue free. Hugh Scott. Caledonia, Ont. |  |
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THE FARMER'S ADVOCATE

THE SUBSCRIPTION LIST OPENS AT THE OFFICE OF THE GUARDIAN TRUST COMPANY,
TORONTO, ON MONDAY, APRIL 25th, 1910 AND WILL BE CLOSED ON OR BEFORE

## CAWTHRA MULOCK \& CO.

 OWN AND OFFER FOR SALE
$\$ 2,000,000$ of the 7 p.-c. Cumulative Preferred Stock, with a bonus of 25 p.-c. Common Stock, of MAPLE LEAF MILLING COMPANY, LIMITED
(Incorporated under the Laws of the Province of Ontario. HEAD OFFICE,

TORONTO, CANADA
CAPITAL STOCK, Issued and Fully Paid Up. PREFERRED STOcK ( $7 \%$ Cumulative) - \$2,500 000 COMMON

2,500,000
\$5,000,000
THE COMPANY HAS NO BONDS ISSUED OR AUTHORIZED.
GUARDIAN TRUST COMPANY, LIMITED
is prepared to receive subscriptions for $\$ 2,000,000$ of the above seven per cent. cumulative preferred stock at the price
of $\$ 100$ for each share, with a bonus of common stock equal in par value to 25 per cent. of the par value of the preferred stock allotted, to be delivered on payment of subscription

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    Subecriptions will be payable as follows: At the rate of 6 per cent. will be charged.
    Suberiptions will be payable as follows :
        90 per cent. on Allotment.
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        The right is reserved to allot
    and

BANKERS OF COMPANY - Imperial Bank of Canada and Bank of Montreal. BOARD OF DIRECTORS


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| e equal to over 13 per cent. on the preferred atock of the (omimany LOCATION OF MILLS AND MANAGEMENT |  |
| Mr. Hedley Shaw and Mr. 11. © Cameron. under whese direction the properties of the old commanies have been |  |
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GET THE WASHER RUN BY GRAVITY


$12^{\prime} \leq 48^{\prime \prime}$ PAREME AND $\$ 4.25$

 GPO THE FENC MAN

## Importation of Stock

Space in the Assiciation cars will be
reserved for all stock coming from reserved
the East
or importers make applica on for definite space before April R. W. hodson R. W. Hestock Commission

The B.C. Stock-breeders' and B.C. Dairy
men's Associations pay half the transpor

Seed Potatnes!
IRST EARLY
$\underset{\substack{\text { SECOND Ideal } \\ \text { and }}}{\text { EA }}$
main crop

W. P. Niles Seedsman wellington, ont

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BOOK REVIEW SOIL FERTILTTY AND PERMANEN The first business of every farmer is
ruduce the fertility of the soil he work oy removing the largest crops of whic
it is capable, and, in the next place,
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lecalling most of the books that hav Recalling most of the books that hav
come under our notice during the pas
couple of years, couple of years, we are inclined to say
that, while admirable as compendiums That, While admirable as compendiums of
:acts relating to farm practice, the time
would now seem opportune for a greater thoroughness of opspimilute for and a deduc
fions, clothed with a compelling finish of expression that will invest the thought
with the habiliments of a literature to inspire. Not every treatise lends itselt
readily to this treatment, but in ome
Incasure it is not beyond achievement. It is gratifying, therefore, to find in
scribed upon the title page of a series o
volumes being published by Ginn $\&$ Co.
保 i3oston, Mass, the words, "Country L
Education Series." The one under
viecy Edication Series." The one under ${ }^{\text {r }}$
view is in keeping with the repute
the house, and its author, Cyril G. Ho Kins, Ph. D., of the University and Ex
Reriment Station of Illinois, ranks easily
among the foremost of American agron omists. "To use the land witho
anusing it., is the moto of the boo
which is ap,ly dedicated to the Associ,
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 to learn their lessons afresh. Dr. Hop
hins gives the rader a qlimpse of the
ureatness of farming simply by citing the
uix positive factors and one novative
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important for which it is mats as animals
ro, heat and light, with protection
weeds. insects and disease. Th
appreciated and most neglected
|For Farmers' Use Only—Jones Patent Hay and Grain Elevator

| The Only sLing outpir on the market that oan LOWER its load in the mow. Thia SLiNG-OUTFIT will unload your whole harvest of Hay and Grat bound or unbound, such as Hay, Bhort dry Clover, loose Barley, Peas, Bheaves, Seed Clover and Cornstalks. And the beauty of it is, it places its load in the mow in sech the barn, down to the mow, as with all other Horse-forks or Sling-outfits. <br> The JONES PATENT ELEVATOR LOWERS its load from the track right down to the man in the mow-then be can take his fork and swing load to any part of mowand trip besides doing away with old time packing down of hay and grain in centre of mow, <br> The JONES PATENT ELEVATOR has many other new <br> and important improvements, all of which are explained in our FRER catalogue. <br> THE JONES PATENT ELEVATOR is made of finest malleable iron and steel of double weight and strength. It is the strongest elevator, and unloads any load of hay or grain in three lifts. <br> There are Thousands giving EXCELIENT SATISFACTION. We will ship youa jones patent ELEEVATOR ON TRIAL. After you use it, if you are not pleased, shipit back to us and we will cancel your order. This ELEEVATOR is sold on EASY TERMS, and will pay for itself first season. Drop us a card and we'll send booklet FREE. <br> The favilton Incolater Co., Led. |  |
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Imported Clyde and Hackney Stallions

EARMER'S ADVOCATE




## Mica Roofing




HAMILTON MICA ROOFING COMPANY, iol rebecca street.
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arm-chair politicieins; and moat

 Tuchine, undermine its ition of a merd
responsibility, and take authy
 Torsight as leadere of of courage mases and
are often ill-informed and sluggish; who
and on the other hand, are swayed by rushes
of feeling. Switzerland has workes the
 and excellent results, but it is objJected
that it would not work in a large elecCorate like Britain, under conditions very
different from those that liferent from those that prevail in th
little European Republic.

Gossip.
fedigree of prince tmperial. Please give pedigree and particulars of
the breading of the Shorthorn bull, Prince
 Prince Imperial $-72511=$, roan, calved
January 2nd, 1907; breadera,

 Helen 21 st (imp.) $=48704=$ ord by by
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 ter 12th $138=$, brod by Amos Cruick-
shank, imported by to liato Hon. Johp
Dryden in 1871 bat Dryden in in7, and sirred by Champlon
it England (17528).


## Summer Spray <br> NIAGARA BRAND LIME-SULPHUR ARSENATE OF LEAD.

NIAGARA is the only absolutely rellable Llime-Sulphur Spray, because it is,
made right. It is a permanent solution of highest lmsectlcidat and funsticidat made right. It is a permanent solution of highest insecticidat and furstictatat
power. Analysis is stamped on every package, and it is guaranteed by a stroms CANADIAN COMPANY.
ARSENATE OF LEAD It is endorsed by all leading Entomologists and Horticulturists. It will not burn Iruli or follage It sticks to the leaves. It mixes easily and stays mixed.
FARMERS AND FRUTT GROWERS. with these sprays you can grow Apples and FARMERS AND FRUIT-GROWERS, with these sprays you can grow Apples and
Pears free of scab and worm; Potatoes free of bught and bugs; Cherrles and Pears free of scab and Worm; Potatoes free of
Plums fre of rot and curcull
COMBINE these TWO SPRAYS in ONE. This saves tlme and money. SPRAY ING is Investment, not expense.

Write for our Book: "sprays and how to use them
NIAGARA BRAND SPRAY COMPANY, Limited, Burlington, Ont.


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## 4 <br> Nulire

The name in the typewriterusing world that stands for honesty of manufacture, per fection of mechanical princ ples, uncompromising dura
bility, enjoyable ease of oper bility, enjoyable ease of oper
ation, and marvellous adapt ation, and marvellous adap abinty
detail

The Monarch Typewriter Company, Limited,
98 KIng St. West, Toronto, Ont.

## 60,000 Acres

OF CHOICE FARM LAND WESTERN CANADA.

The Union Trust Co., Ltd. Real-estate Dept
eronto, ont.

THE FARMER'S ADVOCATE

## This is the easy fence to erect



## If you are open to represent a good, live fence company in an un- epresented disisict, write us for our attractive proposition. Our agency

 represented district, write us for our attractive proposition. Our agencyincludes a complete line of farm and ornamental fence and gates. For
those who will order in carload lots we've a special proposition, which those who will order in carload lots we ve a special proposition, which
includes sending an expert salesman to help close orders and show how

Frame \& Hay Fence Co., Ltd., Stratford, Ont

Don't Judge a Roofing by its Looks


Most ready roofings look the same.
The weather alone finds the bidden weakness

You can't tell by looks which roofing will last or which will go to pieces in a season.

But you can do this. You can identify from its 300 substitutes the only roofing which has lasted.

## Ruberoid Roofing

Fac-simile of the "RUBEROID MAN" on the wrapper and the word "RUBEROID" is stamped every few feet on the underside of the fabric.

Write us for a copy of our FREE Book, which gives you valuable information abo

WRITE TO-DAY
The Standard Paint Co. of Canada, Limited,

QUESTIONS AND ANSWERS Miscellaneous

CEMENT FOR WALK AND GUT TERS.
How much cement will it take to make feot coment gutters in cow stable, 24 deep. with coment walk hat inches deep, with cement walk between five feet
wide, the remainder of floor to be
 WHITEWASH FOR OUTDOOR USE Will you hindly give recipe for a lime-
and-sulphatect-zinc mixture for white washing buidings mixture for white of pumps for applying the same?
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 phate of zinc (white vitriol); ${ }_{2}^{\text {ib }}$ quarts sweet milk Dissolve the salt and white
vitriol before adding Mix with Itriol before adding. Mix with sufficient
water to give the proper consistence Apply as soon as possible.
For information on spray pumps conPROBABLY SUN-SCALD-WHO
PAYS FOR DRAIN
the bark on large Spy apple tree, and
the south side is loosene Prom the trunk. What is the cause, and
is there any help for it, as it is a fine
tree ? 2. I have an open ditch running across
my'place up to the west line, and would like to put in tile. Will I have to put
tile large enough to carry the water should they help bear the cost road. Ther
is a lot of water that comes off the roed
Should the council halp
wense ? pense? the council help bear the ex
BRANT COUNTY, canse. of bar-scald has probably been the
side thousening on the some other formay of injury. Saused by
takes place when ind days bright. When nights are thosty and theory is that the sun
suddenly thaws the frozen
 done to surul whether anything can be the tree. It may be rowed to live as tong as it may
2. The neighbers and
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and anplortion thi. share of expense each
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GOSSIP

The manager of a cold-storage company.
commenting on homemade refrigerators
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TRADE TOPIC
ropends upon the quality in of the seeds
fown goes without saying. The tllus
 applicants. throws much mailed fre as this firm is proplared to supply

IPRIL 28, 1910
QUESTIONS AND ANSWERS Miscellaneous.

THE FARMER'S ADVOCATE


The CAPITAL is the Cream Separator that will "Buy Itself" For You.

THE NATIONAL MFG. CO., Limited. Factories: Ottawa and Brockville.
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Best Leg and Body Wash.




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 Spavtm and Ringbone Pasto

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Don't llave a Blind One


HIGHLY-BRED CLYDESDALES
 stuarch farm. ${ }^{\text {min r. beattie, }}$ MESSRS. HICKMAN \& SCRUBY Export pedikrece ive iverton, Kent. England.




Notice to horse importers
Gerald Powell,



Peachblow Clydesdales and Ayrshires!

 r. t. brownlee, hemmingford, que.

QUESTIONS AND ANSWERS. Veterinary.

CHRONTC COUGH Yearling colt had a cough and nasin
Uischarge when she was a mont
 noticed a nasal discharge only once
twice. She still coughs.
H. (C. Mc)
 donan, 20 grains solid extract of be
digitalis, with cumphor, and 10

SEQUEL TO bARbED-wIRE wound

as a man's, healled, but, a tuich was was nd

Miscellaneous.
probably joint ill


CRUICKSTON STOCK FARM, GALT, ONTARIO



JAS. WETHERILL, Manager, Galt, Ont


TAVERIY JAS. WLTHERIL, Manager, Galt, Ont My tyo importatoo of Clydededale stallions and filice and la HACKNEYS

CLYDESDALES and HACKNEYS
-KEROSENE EMULSION



## Imported Clydesdales

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20 Imp, Percheron Stallions 20
Our 1909 importation of 20 Percheron stallions, from 1 to 5 years of age, are now in our stables. Up to over a
ton in weight. Big, stylish, choke-full of flashy quality, and faultess movers. Prizewinners among them. The
best lot ever imported to Canada. All are for sale on terms to suit

HAMILTON \& HAWTHORNE, Simcoe, - - - Ontario

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T. H. HASSARD'S NEW IMPORTATION !


Clydesdale Stallions and Fillies
are now in $m$ sy stables at Markham, Ont, and, as unual. I have e bity range for
 QIDESDALES AND HACKNEYS

 Imported Clydesdales $\begin{gathered}\text { tivn } \\ \text { tan } \\ \text { tow }\end{gathered}$



## QUESTIONS AND ANSWERS Veterinary <br> BUNCH ON HOCK

Bull sprained his leg two weeks ago swelling has subsided some. There is a A. G. J.
Sore and hard.
Ans.- -Make a lotion of 2 ounces laudaounce acetate of lead and 8
ounces water.
Bathe the parts three
times duily with hot water. and, artien sorencess disappears, the remaining lump can be reduced by repeatedly blistering.
CATTLE WITH COUGH.
Our cattle have had a dry cough for some time. The whole herd is affected.
They eat, look and milk well, and have 1.0) nasal discharge or other symptoms. Ans.-The symptoms indicate pulmonary
tuberculosis. No other disease of cattle causes cough without other physical
symptoms. As tuberculosis is infectious, symptoms. As tuberculosis is infectious,
the cattle doubtless have contracted it
trom each other. Nothing can be done
to cure to cure. The only means of making a
definite diagnosis is to have the herd
tested with therculin hy a veterinarian.

> ENLARGED KNEES. Cow's knees are greatly enlarged. She
tries to rise with legs outstretched like
a horse. in order to prevent pressure on a horse, in order to prevent pressure on
her knees. Walks stiff.
Ans. These enlargements are serous ab
scesses, caused by the cow lying with pressure on her knees; very liable to oc
cur in cattle that are not kept well
bedded. Applications' will do no good. bedded. Applications' will do no good.
Treatment consists in lancing the ab-
scesses and allowing escape of the fluid Then flushing the cavities out well, twid
taice
caily, with a five-percent solution of acid, until healed. Keep her in
carbollthedren
a well arbolic acid, until healed. Keep her in
a well-thedded box stall. It will be wise
to get io veterinarian to operate, as there is danger of lancing too deeply
injuring the joints. SEQUEL TO DEHORNING Had a bull dehorned over a year ago.
One horn has not healed. There is a
cavity into which a man can insert his

 daily, a warm three-per-cent. solution of
carbolic acid. Turn his head sideways
that the fluid will run out; inject Manin; again turn head, etc., etc. If
inter a while the fluid escapes through
as nostrils, it will indicate a tavorable condition, and, of course, the head will
not need to be turned. If you have
patience and continur treatment, you may
fatal mammitis


## HORSE OWNERS! USE CAUSTIC $16-2$ THE LAWRENOE.WILLAMMS OO.. Toronico, OA.

## Spavin Cure

has been the horseman's standby for 40 years and is used all over

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them before buy ing. Drumbo station. WALTER HALL. Washington, Ont Aberdeen-Angus Cattle - Stock all alese
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| John Miller, Brousham P. O., Ontarlo. Claremont Stn., C. P. R., |  |
|  |  |


 6oo-pound cows, descendants of Joy of Morning, Broad

Spring Valley Shorthorns|HIGH-CLASS SHORTHORNS


30 HEIFERS AND 29 BULLS
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government whitewash CEMENT PAINT-MOCK MAPL SYRUP-SILO CAPACITY.
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nually?
2. Is government whitewash mure

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cheap materials with cheap macninery, by cheap workmen. Such a wagon
is expensive at any price Thousands of business farmers have chosen from the I H C line. It'
the surest way of getting the most wagon-service and satisfaction. You will

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each is up to the 1 H C standard -not down to any price. Don't be misised
by looks or first price. For price is too often the only argument used to sell a cheap, inferion wins-and stock is the finest-air-dried sesenso-ed 1 HC line of wagons. The wood after the paint goes on. Spokes, hubs, skeins, box, axles, seaty, and in fact
every part of the H H materials, the most skillful workmen and the latest improved machinery can "weak spots" in the I H Cline. Made with hard maple axles, white oak bolsters, sand borvico in Canada. and oak or birch hubs-they represent the highest standard of wayon con Petrolia Wagons are especially constructed for Canadian service and have
proved their merit to thousands of farmers let him show you one of these wagons. You will note the wast difference EASTERN CANADDAN BRANCHES - Interational Harvester Company of America at INTERNATIONAL HARVESTER COMPANY OF AMERICA
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 Whose \&reat success has been attained
by builing this Cream Separator supe-
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Here are the pa 1st. The square gear construction.
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Dispersion Sale of Shorthorn Cattle!
TUESDAY, MAY 3RD, 1910
all from imported sire and dam. The foundation stock for this herd were selected
from the very best herds of Scotland and Canada, with a strong view to mile from the very best herds of Scotland and Canada, with a strong view to milking
qualities. Electric cars connect with all M. C. R. and P. M. trains, and will be met at Cedar Springs. Terms : Six month' credit will be given on bankable paper, Capt. T. E. Robson. T. L. PARDO \& SON,

275 BURLINGTON SHORTHORNS 275 3 Choice Imported Scotch Shorthorn Bulls-yearlings I Imported 2-year-old Bull, red-an extra sire. 10 Bulls, 9 to I6 months old-all by imported sire.
30 Ciloice Yound Cows and Heifers-mostly bred or have 30 Choice Young Cows and Heifers-mostly bred or have Calves at foot. Long-distance telephone. Farm $\frac{1}{1} 4$ mile from Burlington Jct. Sta., G. T. R. J. F. Mitchell, Burlingt on, Ont.
SCOTCH SHORTMORNS $\begin{aligned} & \text { chight extra goodyoung bulls, from } 10 \text { to } 5 \text { months old ; } 20\end{aligned}$
chows and heifers, forward in calf or with calves at foot. Prices reasonable. Inspection invited.
W. G. PEIIII \& SONs, Freeman, Ont.

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Cotch breeding and high-class Individuality.
 Maple Leaf Shires, Shorthorns, Hampshire Hogs


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CHOIOH BCOTCMH BULIE FOR SALE. HERD-HEADING QUALIT
 Elora Station, G T.R. and C. P. R. JA. WATT, SAIEM. Meadow Lawn Shorthorns


QUESTIONS ARD ANSWERS Miscellaneous.

> ADDRESSES WANTED.
 and John D. Rockefeller's addresses? Huron Co.
Ans.-The address of Andrew Carnegie
is Skibo Castle, Sutherland, North Bri is Skibo Castle, Sutherland, North Bri
tain, that of John D. Rockefeller, 4 W
54th St., New York, or Werwick, Rhode Island. I have a mare four years old that
think has lampas. The flesh in the uppe
part of her mouth hangs down below he
front teeth part of her mouth hangs down below he
front teeth. A. J.
Ans.-Lampas is simply a congestion o Ans.-Lampas is simply a congestion of
the gums from irritation of teething.
Horses over five years old are not trou-
bled. $A$ a rule, it is better left alone
In severe cases, such as the one inquired
$\qquad$
$\qquad$
$\qquad$ else dangerous bleeding may result
CORN FOR SILAGE 1. I am sowing seven acres of corn for
to put in silo. I ama going to plant
three feet apart in rows, and sow with
a drill. Do you think Canadian-grown
corn would mature earlier than the corn would mature earlier than the
American corn we get out of our seed 2. Do you know anything about Gold
King corn, or Whitocap corn? $\begin{gathered}\text { Subscriber. } \\ \text { Ans.-1. }\end{gathered}$ Corn from Canadian - grown
seed will, generally speaking, ripen earlier seed will, generally speaking, ripen earlie
than American corn of the same variety than American corn of the same variety
and Canadian seed is nearly all of earlier-
ripening varieties than what comes acros
$\qquad$ grown for the grain, which ripens thor
oughly. It is one of the earliest-maturing of the Dent varieties. The Bailey
Dent is another excellent corn. The
Ifint varieties, such as lompton's Early,
fing Comen King Philip, and Longtellow, ripen con
siderably earlier.
Gold King corn is not WHITE FLIES ON HOUSE plants.
whill your toul mo what to do to kul
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Caught Cold By Working In Water.

## A Diatreasing, Tlohaing Sonsa

 tion In The Throat.Mr. Albert MacPhee, Chignecto Mines, N.S., writes:-"In Oct., 1908, I caught cold by working in water, and had a very bad cough and that distressing, could not aleep at night, and my lunga were so very sore I had to give up work Our doctor gave me medicine but it did meno good so I got a bottle of Dr. Wood's Normay Pine Syrup and by the time I had used two bottlen I was entirely cured. I am always recommending it to my friende."
Dr. Wood's Norway Pine Syrup combines the potent healing virtues of the Norway pine tree with other absorbent, axpectorant and soothing medicines of recognized worth, and is absolutely harmless, prompt and safe for the cure of Throat, Pain or Tightnees in the Sore and all Throat and Lung Troubles.
Beware of imitations of Dr. Wood's Norway Ping Syrup. Ask for it and Insist on getting what you ask for. It in put up in a yollow wrapper, three pine treee the trade mark, and the price 25

Manufeotered only by The T. Milbure Ca. Limited. Toronto. Ont.
A well-known criminologist and super
intendent of prisons, recently narrated at a dinner some reminiscences of his interesting work.
A clever criminal of gluttonous pra
clivities,', he said. clivities, " he said, "once couched a con
plaint in rather neat terms. My in
spector, entering then spector, entering this man's cell one day
found it very hot and stufy ..' Why have you got your ventilato ."The burly and gluttonous prisoner an
swered plaintively. .'. Well, inspector, yer honor, the last,
time I had the ventilator open a wast ner while my back wars tured off my din-

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Mrs. Rousseau tells how they cured her after three
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Every day furnishes fresh proof that the
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Weeds.'
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Stonehouse Ayrshires all ages. Am now book-
ing orders for bull calves. Hector Gordon, Howick, Quebec. Shannon Bank Ayrshires and Yorksthres $\begin{aligned} & \text { Am } \\ & \text { now offer }\end{aligned}$ Ayrshires from a Prizewinning Herd-
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We are the original makers of the Famous Fleury Plows Nos. 21 Dandy and 15 (one horse)-the best line of Walking Plows in Canada-and all copled ther plows as being as
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my opinom, is the ebest plow ever bullt, and ay am unale to procure same here I write to see
J. FLEURY'S SONS,

AURORA, ONTARIO








Maple Villd Yorkshires and Oxford Downs

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