## PAGES

MISSING

## PROTECTION FROM LIGHTNING

is quite a consideration now when there are so many barns and houses in the
country struck by lightning every year. Io you know that if you had a metal roof on your house or barn that it would be impossible for lightning to injure them? Then, too, our Galvanized Metal Roofs are fireproof, stormproof, and will easily last fifty years without attention. Chaff and dirt from the


If you are building or repairing barn, house or shed, you should have a copy of our handsomely-1llustrated catalogue No. 15, which describes fully our metal The Metal Shingle \& Siding Co., Ltd., PRESTON, ONTARIO.

## American Fence Talks

$A_{\text {MERICAN FENCE }}^{\text {mis standard of the world. More miles of it are in use }}$ tr her fencel
It is made of steel that is exactly fit
be made of wire too soft or too hard.
It must be exactly right to render good service.
The The structure of the American Fence is perfect. It is built of big, solid, galvanized the upright or stay wires hinged ; in all heights and for all purposes. American Fence and Gates are for sale by
dealers everywhere, or write us direct and we will send you a catalogue free, and tell
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Have you 125 loads of manure, or more. to spread? Are you going to plant 25 or more acree
of oate? If so. let ue know, and we will show you how you can REE. Write just these words on a postal card or in a letter: I have ......... loads of manaly THE WILKINSON PLOUGH COMPANY,
THE WILKINSON PLOUGH COMPANY, LTD., TORONTO, GAN

## Desires Determine Destiny

IN ALBERTA, THE LAND OF OPPORTUNITY

> The selection of a location is important. Southern Alberta is the Homeseekers' Land, and the center of the fall-wheat belt, High River is the buckle of the belt, the birthplace of "Alberta Red." Why not own a farm there?
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Clean-out doors are placed in the
casing, and the brush can easily be inserted
This heater just bristles with exclusive features such as automatic gas dampers, large double feed-doors, steel dome, double shakers and steel radiator.

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Corn Planters, Garden Drils and Cultivators,
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30,000 acmes wheat lands in the famous GOOE0 and Eagto Lake oountry, with homesteads ad oining
Call or write for information
C. W. Blackstock \& Co. Rose st., REGINA, sAsk.
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$\begin{aligned} & \text { Alberta, excepting } 8 \text { and } 26 \text {. not reserved, may be } \\ & \text { aomesteeded by any person who is the }\end{aligned}$
$\begin{aligned} & \text { the extent of one-quarter section of } 160 \text { eacres. } \\ & \text { more or less. } \\ & \text { Entry may be made personally at the locel }\end{aligned}$
$\begin{gathered}\text { Entry ma } \\ \text { Land onfoe } \\ \text { situate } \\ \text { The ho } \\ \text { The }\end{gathered}$
$\begin{aligned} & \text { The homesteader is reauired to perform the } \\ & \text { oondition connected therewith under one of the } \\ & \text { oll }\end{aligned}$
$\begin{aligned} & \text { (1) At 1oast six months' residence apon and } \\ & \text { outlivation of the land in each year for three }\end{aligned}$
$\begin{aligned} & \text { equirements as to residencoe mesy bitered for thiod the } \\ & \text { such person residing with the father or mother }\end{aligned}$
W. W. CORY.
N.B.-Unaty of the minister of the Interior. N.B.-Unauthorized pablication of this edver-
Uisement will not be paid for.

## FARM LABORERS

> Farmers desiring help for the conving season should apply at once to the Goverument Free Farnu Labor Hurean. Write for application form to

Thos. South worth Oiroetor of Colonization. Toronto.

JOHN R GPEEN
 II HAVE A Crict 8 Hears, and can Dut you rioht. near Monse Jaw. There is finer in the
Moose Jaw distre

 TWO HUNDRED RESTDENTIAL LOTS IN TXPEF THOLSAND ACRES IN SEC
 Saw Mills : $:=$ Sam

# The <br> "Persevere and Succeed.' <br> <br> Farmer's Yodv and tome jragazine 

 <br> <br> Farmer's Yodvand tome jragazine
}

LONDON, ONTARIO, MAY 24, 1906.
No. 713

EDITORIAL. Have Faith in the Farm.

## 0








 ant nown in the exhirarating chase or whent Trosemerty wings oure the land, mud the whabat:
 wannc ennume



 now ane. Every day there are good tarma, laads

 In, al rom sioo to stion: Why all the difiererene? It is not, we subumit, so mach a a difereerence of in in
 Thani wh the olat. rorovectas must go up, and the and knows how to handle it, will be getuing in on the ground toor ot ta wimining proposition. Shrewd men overe treily thar betief that as soond s chances






$\qquad$ Anst




 ans, nood wie, and nsoun hart, ough ous





 math morer too thoe good, and owes no man anyIIs dull not hanker to rum a correer rrocervy
terprises, or pork-packing, or York Loan stocks, crprises, or pork-packing, or
or rubber plantations, or take a fly in the wheat or rubber plantations, or take a fly in the wheat
pit or any of the other " get-rich-quick" schemes that are dangled before the eyes of the unwary ; that are dangled before the eyes of the it de-
he just farmed with the conviction that it
served the best energy and brains he could put served the best energy and brains he could put What man has done, man can do. Farming is a mighty good business. $\qquad$
Farmer, Save the Tree!
No apology is offered for the frequent attention"The Farmer's Advocate " has given the subject of the farm wood-lot. It may be argued that it
is a matter in which but few are interested. True, but it is one in which everybody should be in terested, and we have been pleased to note that our stand has been approved by leading thinkers. This means that it will sooner or later be commended by all. There is not a more urgent question before Canadian farmers to-day. Its immense import lies in the fact that upon the action of the present generation depends the welfare of the future. A man may run down his land by bad farming, but he cannot well exhaust it beyond the to restore. He may let the buildings go to rack and ruin, but others can be built. He may let his live stock run out, but a new foundation may be purchased by his successor. Not so the forest. nce gone, it will take more than a generation any slight and the expense will many times exceed rome enclosing of revenue that might be sustained stands. The letters formg for now while it ing firms show the rave scarcity ${ }^{\text {manufactur- }}$ imber already exis rave scarcity of merchantable dly becoming move alarming. What will be the ondition twenty years hence? Even now the annot drive through Western Ontario without celing disturbed at the all but exhausted woodlars. Looking about over the horizon, it aphut ap though there were quite a bit of bush, you find? A few scattered trees standing in grass. In a few years these, too, will be gone, unless we act promptly? Better live on the is marvellously rich, and at least the soil is marvellously rich, and where trees planted,
as they have been in sonie cases, grow well it is worth planting trees there, is it wot better worth keeping them here? We want the forest to ensure a timber supply. We want it for the benelit it is to crops by checking winds. We "ant it for its effect in ameliorating climatic confitions, regulating the flow of rivers, and conferring numerous other benefits not to be enum-
crated here. We want the woodland as a harboring place for insectivorous and other birds which suve our crops from insect injury and add a spehe very worst way, and the future will feel the need oi it very much worse than we.
It is our duty, our honor, and should be our his matter. public conscience to a realization of its duty deyends the future attractiveness of rural Canada, and, to no small degree, its future prosperity. if the present for the future. It is problem must and does enlist the sympathy of every patriot. Prompt and practical action by every action needed in the majority of cases is a littla ficing to keep the stock out of the bush. Simple casy enough, everyone must admit, and, with are, it bids fair to pay in direct soaring as they cents fair to pay in direct return of dollars

THE FARMER'S ADVOCATE
Founded
the Farmer's Advocate
and Home Magazine.
the leading agricultural journal in the
the wlitam welv company (Liatted).
John weld, M



- THB FARMERS ADVOCATE AND HOME MAGAZINR









TWhen made otherwisw we will note be responsibibe



- Leterinary io Legal Enqu

-. WHadress shoula give the old as well as the new Pive a dange

 Adress-THE FARMER'S ADVOCATE the william weld company (Lin

London, Camad.
palities to exempt from taxation unpastured wood-
lands (within certain limits) lands (within certain limits), has passed the
Legislature. What municipality will be the frit

## An Embargo on Human Sympalby.

 of the Californian earthquake that magnitude San Francisco and adjacent towns became known the Canadian Parliament, without a shadow tricken, community who losses were th gravated by the conllagration that followed the seismic overthrow. The vote voiced the national sympathy of this country for the sufferers in the Republic. Official intimation was in due formsent through the channel oi the covern sent through the channel oi the Government at
Washington, but the offer was just as promptly and decisively declined. President Roossevelt's re ply, coupled with the usual diplomatic thanks, was
that the United States was in a position to fully care for the situation, and we believe a confle of similar offers from other nations were als, te-
clined. Behind the official reason hatded out was, perraps, the national self-suficicincy that gations to anybody. This allmost bumptrious at
gat titude has not been well received in Canada, and we are glad to find that it has not uniwirsal a ap
proval across the lines, either. it is in striking contrast with recent di.closur...
through the press of the hundreds of thourands who have been for weeks on the very brink in starvation, and the almost tragic appeals
California to Congress, which has alreally some $\$ 2,500,000$ for relief, for $\$ 5,600,000$ tional to pay losses involved. National
 national sympathy, the touc
makes the whole world kin

## Law, Opinion and Reforms.

Judging by the aimost daily bill-of-fare served
at the Ontario Legislature for a couple months past, this Province appears to be passing through a sort of law-making epidemic. Law A. V , Dice opinion are curiously interwoven. Mr. Fnglish authorities on law and constitutional questions, delivered a course of lecturcs before iord and Harvard Universities on this subject eew years ago, which have since been published in out form. In the concluding chapter he points sut that legislative opinion is more often the re sult of facts than of philosophical speculations and that no facts play a more important part in whe creation of opinion than laws themsel ves,
whisely or unwisely enacted that every intelligent sudent enacted. He contends ultimately arrive at the conclusion that act nust of an opinion entertained by men at a given era is governed by that whole body of beliefs, conwant of a better name, we call the spirit of the age. As Pattison says: " Deeper than opinions that it sentiment which predetermines opinions, What it is important for us to know with respect peculiar opinions, as the complex elements of that moral feeling and character in which, as their hese legislative efforts grow the Through all the sum total of human security and happiness. Elsewhere in this work reference is made to the long-drawn efforts for reforms in which leading inds make their impress on the spirit of their philosuphic very clear that the purely judicial or philosophic type of mind is not the one which most effectually battles for the alleviation of
wrongs and abuses. There must be intense viction, optimism, enthusiasm, and an unconquerable persistence in overcoming the inertia of the act as and those intrenched self-interests which iorm. Another point to be remembered is this That laws do not enforce themselves, even though hey are the expressions of public sentiment, and
that Canadians are with folded arms once the legislation is enacted in the cheerful conlidence that thereafter all will

## HORSES.

## Our Scottish Letter

the unexpected stirring times, and it is certainls many that the days of horses are over, and soon wre will be puzzled to know what to do with the Motor-cars are everywhere for horse provender motor were not a sufficiently weighty menace the horse, the streets oi London are about to be autoob by the electrobus, the evil-smelling, noisy and noiseless electric car. Yo the sinoothly-running
the phile these are
 champion, Mr Menella 165 (16i,9) This was the London
bred by Mre. R. C. Marshall, Burk-brown mare. Archan, IVenfrewshire, and owned hy Mr. William
ciot. of Thornhome, Carluke, whose stud Scott of Thornhome, Carluke, whose stud horse,
Mathias (6473), was her sire, and he also now Nwns her dam, was her sire, and he also now
great sire, Gartoran Garton, a daughter of the
 nay show nearly two monimal at the London Hack-
of shapo and in respect

 ery bige trade in carriage horses, and have a
splentid outlet for the very choicest. an States The Wor the very choicest, in the thited
vith Menella. Hers of the day did not tead







$\qquad$
-an the curpormacy of the highest any wav

Thursday, Mr. Alexander Morton sold 39
horses, cobs andt ponies, at an averace
 6s. 16id. Considering the fact that 19 oi these
39 were ponies, this must be regarded as not bat
business. The 19.
 contide. id. in the tre however, a distinct lack light-legged horns
generally. The tip-top section sell then money than they tip-top serection making, sell for there is a
big chasm between their value and that
best class of best class of commercial harness horses of the well-known Hackney stallion, Matchless of Lomles
boro (151\%), which Mr. Andrew Mont brought back from Canada last winter, has heeen
purchased by Mr Mr Mow purchased by Mr. Alexander Morton, and joins
his Gowanbank stud. Mr. Iain Ramsay, dalton. Islay, has also purchased a famous ol Hackney in Lord Hamlet (3750), which has come north, and joins his famous Islay stud. This
horse was the first of the produce of th. Ophelia, the London champion mare, and dam of Matiaias M'olonius, Heathfield mare, and damere, and of
knows not how many more first-clacs hot knows not how many more first-class horses and
mares. Ophelia is, without question successful Hackney breeding mare on record. So
far as I know, she is the only London Hack champion mare which had oned champions Hackn THE AYR SHOW is past for another sear, and
the Ayr Derby, the blue riband of the sursit breeder, has been won by Mr. James McAlister
Meikle Meikle Kilmory, Bute, one of a trio of enterpris-
ing brothers bred in that island, all oi whom
achieved distinction champion is by no means a big animal. McAlister's has plenty of vessel means a teats, and is an imple bue ment, so far as length of teats is concerned, on
many of the fancy show sorts with which lic have been familiar in the past. Although turned the the championship at Kilmarnock, she came out on top of everything. The siro of this quey is Sir John of Old Graint ney, a bull promis-
ing to breed uncommonly good stock. The firs third and fourth in the Ayr Derby were all got by him. The second was by the noted bull, named Flora of Burnhouses, shown some years ago
hy $\mathbf{M r}$. Wm. Howie and rare of this second quey, Queen of Hillhouse 12205 ,
owned by the late Mr. Drennan dam hest champion cows at Avr. It is worth of the
thesenting these particulars. Blood tells. Both Flora and and popular with both the " fancy " and the com-
mercial iudyes was this year of Ayrshires. Whether the Nerby mont point, Perhaps it would not be incorrect
to say that, barring a little lack oi size and
scale in body, the 3 -yr.-old quevs are fully better scale in body, the 3 -yr.-old queys are fully better
than they have been. The most outstanding im-
provement is seen in provement is seen in the size of the teats. Mr.
Thomas Barr, Monkland, Kilmarneck, was
pionasoth pion both at Kilmarnock and Ayr with his famaus.
hull Zomosal, a big, handsome. white and brown,
with lots of substance

Pydesdales were both mmerous and good at
Ayr. On account of the lamented death of their
owner. Mr St owner. Mr. St. Clair Cunningham, the champion
of the Kilmarnock show. and other. exhibits, were not forward. Mr J. Ernest Kerr With his beautiful three. Was first and champion She was got by Montrave Ronald, an extranique.
bred horse, and looks like taking a ing this season. Mr. Kerr's stud also provided both being got by Maron's Pride, and the firct ess. was got hy the Chapman's Winsome Baronyearling was Mr. Robert Park's Mannora, fy the
celebrated Marmion. the sire of Rosadora, the Cawdor Cup champion of last of Roar, now in the
Bryce's hands at Arcola acsa daunted Prince, by Hiawathahn Po Pollock s Un- Un-
row colt, with great show hat a very tall, narrow colt, with great show style and good action.
He is a twoyear-old, and when he fills out wih in the threquals. Mr. James Kilnatrick had first another son of the same wire, and a wonderful
mover. The winnith a very lovely colt, owned by Messrs. A. Wass rare stamp of a quality Baron's Pride This better does one particularize his many fine hime the
He is all the tine bred t all the time a gentleman's colt, Me was
br. Robert Sherman, Balig. Kerke The Athenia, of the Donaldson Line, which
sailed this week, carried one of the shipments of Clydestlales and of the most valuable ponies and ordestales and Ayrshires. Shetlant the (1yde for many a long day which has left ich. Que, has a magnificent R. R. Vess, of Hos
high-class Ayrshires. herds in which dairvane whelected from the

MAY 24,1906
from buyers on the ranges. $O_{n}$ the wholn
desdale and Ayrshire breeders have reasinn
satisfied with the healthy trade that is tom 1 their favorites
Glascow, 28 th

Should Breed Mares attention on most small farms, but taken gener omission difficult to understand, for oi all an enspicuously first, especially if the mare stands The well bred. The returns given far excced he, counting the from ordmary specimens of cat-

0 There are always one, two or three horsine b
 so gener why have haveratue irom good and interior
 prrce obtainable for colts at any age soon more
than makes up the difference. This applies to all
classes. Conditions must be dealt with as they exist, ferior mares to sell them and replace them at inwith a better class. But there are means of im-
proving the stock, and the best way is to employ proving the stock, and the best way is to employ
a high-class stallion. There cannot be much difficulty in that, for in the present day there are to
be found splendid stallions of all classes, and at moderate fees.
The useful
regularly employed, is the mare that jobs, not
kept breeding. There will bo te that.condition to doing the farm work required in the
spring. If need be, they can wave spring. If need be, they can have a rest of some behind. Haymaking will be, perhaps, the first employment after foaling, and, with care, they
can do a great deal of likht work in this without
interfering in the least with the The argument that mares cannot be spared is ait wrong. If the farmer or those be sparing an a a alil.
able mare, would breed her in the spring. she
could he worked up ing, and worked up to within a few days of foal and offer the breeder an opportunity to breed up
his stock.-[Rider and Driver.

Three-horse Evener and Lines.
 horses abreast. For the evener, attach to one end of the evener an ordinary set of two-horse
whiffletrees, and at the other end-which should be
just tivice, the distance from the line oit
$\qquad$
$\qquad$
$\qquad$

| brulle of each of the outside horses, and feit lome enough to check back to t horse's hames |
| :---: |

Four-horse Lines.


## LIVE STOCK.

The Ruddington Shorthorn Sale. he late Mr. Philo L. Mills, of Ruddington Hall, ingham, although born an American citizen, assed great wealth, much of which he expended country gentleman. His estate of Ruddington beautifully laid out, and on it he keptham, is horses, a famous flock of Shropshire sheep, Shire of pigs. His death took place about other breeds nephews, to whom the option was, under his will his uncle, the whole of up the life pursued by dispersed. The manager at Ruddington is Mr among your Canadian stock-breeders, and the first ton's hammer on May 3rd, was a magnificent
tribute to the memory of the deceased the crowd, which included many Gibson. Among Argentine. Australians, and breeders from the corners of the British Isles, I noticed from aur good

## To Remove the Meconium.

$\qquad$ mals to enable them to pass the meconiunsicking ntal life, and exists in the faces formed. The like, lumpy, sticky material. As a rule, the dam's lunk serves to rid the bowels of this material, the anus. The colt, in such cases, withrough struggling to defecate, but is unable to do it. It
is a serious mistale The serious mistake to administer a purgative. would merely liquify the contents of the intestines, which would be forced age the intes-
resisting meconium inst the resisting meconium in the rectum. Foals
are often started purgatives given at scouring and lost by ter to use an injection of warm water and oil,
or, still better, to remove py finger and removing the lumps, one at a time, bv
manipulation. Remove equal parts. warm water and linseed and inject
course of and course of three or four hours oil the finger again
and repeat the operation ment until the faceration. Come collow. A the treaterinary is resnonsible for the statement noted vetfrom die from retention of the meconium than


Lord Norfolk and Lady Norfolk.
first pair under 15.2 , and first in beveral sind $\mathrm{gs},{ }^{2} 200$ gs., 165 gs .,
160 gs.
along with 160 gs., along with are general satisfaction when a halt was called for age of $£ 1512 \mathrm{~d} .10 \mathrm{~s}$. was announced.
The sale of the females thas far more sensational than that of the baills. Several breeders what the Argentine had come prepared to buy for any Britisher to beat them, once they started The late Mr. Mills was the only man who could He never bid unless he meant to buy ond game. he began to bid he held on until he obtained what he wanted. The second highest-priced female was for which Mr. Duthie calves by King. Duthie gave 500 gs . All the draordinary prices. For example, a badly-colored made 65 gs., but her Ayrshire-like horns, herself bull, sold for 150 gs . The roan bull this great out of Mr. Duthie's $500-\mathrm{gs}$. cow, made 130 bs. red-and-white cow named Lady Charlotte, calved Christian made 210 gs. Mr. Hickling balf by King red cow. Duchess of IRuddington III., at 310 gic but her beautiful roan cow calf by King Christian lotta went at 390 A five-year-old cow named CarShenstone, the head of Cooper's is dip ,r, of Mr. Douglas Fletcher, of Roosehaugh, " Inverness gave 310 gs . for a red three-vear-old Duchéss. Mr.
Stephen Mitchell.
gs. for the beautiful roan three-year-old Lavender
Lady II., and Mr. A. M. Gordon, of Newton gave 210 gs. for the roan threc-year-old Lady,
Dorothy XXVIll. Scotland repaid Mr. Mille' en. thusiasm for the Scots type by buying many en the best females, although frequently the Argen tine buyers proved too many for them. Mr. Fletcher got the highest-priced two-year-old heifer
Ituddington Countess Farewell II red heifer of the same age went to Senor Olivera, at $330 \mathrm{gs} .$, and others made $280 \mathrm{gs} ., 260$
$\mathrm{gs} ., 210 \mathrm{gs} ., 205 \mathrm{gs}$., and seral gs., $210 \mathrm{gs} ., 205 \mathrm{gs}$., and several were below that
figure, but over the 100 ngure, but over the 100 gs . Lord Winterstoke Bristol tobacco fame, Was a good buyer in this section. The best animal in the sale, age conDaydream, an uterine sister to Mr. Duthie's $500-\mathrm{ps}$ cow. Mr. Duthie wanted the yearling also. She is a wonderfully well-finished, level-fleshed, gay
roan. He bid hard, but many more were of the roan. He bid hard, but many more were of the
same mind as himself regarding her, and one of them was Senor A. Olivera, who had not crosse the South Atlantic for nothing. He held on severely against all comers, and carried off th
youngster at 420 gs . Shorthorn breeding is cer tainly not at done.". Shorthorn breeding
While South Americans have been buying Shorthorns, Canadians have been buying Ayr left a week ago by the Donaldson liner Athenia. Messrs. Robert Hunter \& Sons, Maxville, Ont. had 51 head, and Mr. R. R. Ness, Howick, Que an equal number. The gratifying thing atout Ayrshires can be gathered together from existing herds, passing the tuberculin test, and, to a great extent, proved to be superior milking strains of
stock. Stockmen are slow to move out of their accustomed grooves, but sooner or later they recognize that the commercial test is the final, and from it there is no appeal. Mr. Ness was kie, Kirkcudbright, and Mr. Thos. Barr, Monkland Kilmarnock; and Messrs. Hunter had as their chief
guide Mr. A. W. Montromerie guide Mr. A. W. Montgomerie, Lessnessock, Ochil-
tree, who knows his way about among Ayrsire with the best of them. Clydesdales have also secured attention from these shippers and Mr. Carruth, from the Northwest, as well as Prouse \& Innes, Ingersoll, Ont.
Altogether, stock-breeding is proving past, the backbone of the British farmer. If he had not his pure-bred stocks to fall back is difficult to see what he would have. home a week ago, including the champion Thorngs. mare Menella, have all been shipped to New York. This confirms, in another department, what has been suggested by the trade in Shor
horns, Ayrshires and Clydesdales.

## Weaning Pigs

An expert in hog-raising says that the method
of weaning will depend somewhat of weaning will depend somewhat on circun stances. If the pigs are so little dependent
the sow's milk that she is gaining rapidly flesh and lessening in milk flow, the weaning may be abrupt, the sow being taken away out of hear-
ing. If she is still milking considerable. she ing. If she is still milking considerable, she or three days. Wr the piges mave a day for twa
in detachments, beginning with two or throw the stroncest. then the next stronerest. threarin the we
ing-off.

## Live-stock Judges.

```
Aprii 5th issue, was interesting, and ns youl usked for
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1 have not seen any, 1 am writing this. hop whe til
have some opinions and improvements oflicered. "is i.
with many others, am interestod.
with many others, am interested. I agree with, you,
lieve it a great improvement over the old one. The
political influence you mention I don't know anything
about, and doubt. ${ }^{\text {a }}$ The difficulty the Superintendeny
has in securing capable men is great. The idea
in so far as that making the selection is a good on
so far as that breed
followed as far as poss
partial to any family in that breed, and should
his reasons for the awards he makes as information t
the anxious spectators, not necessarily as an accom
plished orator, but as a man who knows what he
doins, and that he is doing it as an instructor.
my man believes it beneath his dignity to impart in
ormation to a desiring audience. then he should kee
way from stock-judging at fairs
udges pass an examination and obtain certificave al
taking a course of instruction in judgint: that the
Student should carefully train his eye and touch, herome
intimate with the standard of excellence of the class of
animals he is going to judge irrespective of
aimals he is going to judge, irrespective of breed, and
amiliarize himself with the different breeds and their
breed characteristics. He should study anatomy and
physionegy
physiology, so as to know why certain form and action
are desired. A course of instruction
are desired. A course of instruction along this line
could be given at the $O$. A. C, where so much valu-
able and much-needed instruction has already been given
many capable and interested men will ${ }^{\text {I }}$ sive thereir tope
on this very important sutject, and that out of them
good will come
Bruce Co.,

## Raising Bacon Hogs.

$\square$
Advocate" the much-discussed hog question, and
firmly believe the hog producer has not had fair pla
ever, there is
present time, especially in regard to prices: but wh
should prices fluctuate so in such short a time? Pron)
demand. However, our attention should bo supply and
an equally if not more important subject, namely.
ing and marketing a goort and subject, namely, rear
raise such it is very important that we heep guod
brood sows, which. I consider. should
all means. If belonging to the easy keep or fat king
they should he crossed
ald means, "1 belonging to the easy keep or fat kind.
they should be crossed with the typical bacon sire to
farrow for the first
farrow for the first time at the age of one year.
keep two brood sows-a Tin
keep two brood sows-a Tamworth and a Berkshire
crossing the former with
Tamworthe each sow raising two titters a year.
ing about first of April and first of Sentember
ing about first of April and first of September.
a all on an average thirty-six pigs a year. , raising
She is less liable a mother. She being the morre on
a more roving nature, and her ofspring: she nloo hat
ercise. making them better feeders, an
as a hatcon hog. In in the grass season far sumperior



Ratcheuoh Witch

[^0]
and owned by Mr. bred


Washing the Sheep.

## THE FARM.

## Don't Let the Crust Form

The great principle in cultivation is to prevent the
formation of a crust. This is true, whether we preparing for spring seeding, cultivating a hoe crop or working a summer-fallow. Aim to stir the surface promptly after every rain that packs the ground at
all, and in a dry time after pretty nearly every all, and in a dry time after pretty nearly every rain,
for then soil moisture is doubly or trebly precious. This
 permits free circulation of air through the soil. In a wet season it is worth cultivating more or less for the
latter purpose alone. It also serves to keep down weeds, but he who cultivates as much as is advisable to serve the aforementioned two purposes will seldom
require to do much extra work on account of weeds. It require to do much extra work on account of weeds. It
is lecause so many of us neglect the important early is because so many of us neglect the important early
cultivation which would kill the sprouting seeds, that so many rank weeds are seen in our cornfields, and so much care and laborious effort is necessary to root
them out.
$\qquad$ and permit soil aeration? In primeval conditions
nature covers the soil with a layer of coarse vegetable nature covers the soil with a layer of coarse vegetable
material; under this is humus (vegetable and animal matter, in varying stages of decomposition). This
humus is by far the best water-holding constituent in humus is by far the best water-holding constituent in
soil composition.
King found the following comparison of "ater-holding capacity in three kinds of soil, when they held as much moisture as they could after several
$\qquad$ Sandy loam
Clay loam Hunus soil. The coarse layer of undecayed vegetation above act time it anfo.ds ideal channels for the admission and gradual diffusion of atmospheric oxygen. Dian comes along and tinds it necessary to raise a large area of
crops adapted to produce the maximum amount of human food. To this end he destroys nature's vegetation, and plows up the soil, inverting the layers and bringing the more purely mineral matter to the top. At the same time the humus supply is exhausted by the effect of unduly hastening a soil process called
the and nitrification, by which plant food is set free. Were all nitrincation,
this unlocked fertility utilized it would not be so bad, but owing to the land being without crop for a part
of most seasons, a considerable proportion o soluble plant food is lost by leaching and wasning rainwater. Thus not only does the land lose its protecting nulch of coarse vegetable matter, but also its humus food. The result is that the soil bakes, especially if it we of clay consistency, and settles together in such a way as to retard seriously the admission of air, without which no plant food can be made available. In-
deed, in the absence of air, a reverse process, called denitrification, may go on by which combined nitrogen s set free as a gas and lost to the air, whenfe it can be recovered only through the agency of legumes, such
as clover or peas, and a few minor means. May a as clover or peas, and a few minor means. Mayy a
water-logged soil is actually losing valuable plant food in this very way. cultivation an artificial substitute for
NATURE'S PROVISIONS. Clearly, man, having upset nation
ions, should man, having upset do sature's $\begin{gathered}\text { provi- } \\ \text { something to } \\ \text { substitute }\end{gathered}$ This can be done fairly effectively with the soil mulch. h order to make the most out of the land, it would and experience proves that a harrowing or hooing of grain helps materially to increase the yield. However the lator in these cases generally exceeds the value of Che incrrase in crop returns, partly because the grain
crops make their principal growth in spring and crops make their principal growth in spring and early
summer. when there is still crops make their principal growth in spring and early
summer. When there is still a large amount of moisture


Shropshire Lambs at Grass.
class called hoed crops the case is difierent. In the Cultivation should not be too deep. The first to twenty minutes. Strain the solution int first place, these are adapted to grow at spaces which scutting may be three inches or more, to produce a deep pump iarminute and fill with cold water to admit of easy and fairly rapid cultivation. In the and effective mulch, to open the soil to the lat.r pene-
second place they are chormous yielders when provided with sufficient food and moisture; in the third place they make their growth tather late in the season, when soil moisture has been already reduced by evaporation,
which continues throughout their seaso Such crops must be summer-cultivated te con growth. ture for their use, to permit free aeration, and to keep down weeds whieh would otherwise rob both plant food and moisture. We hear a good deal of mysterious talk
about " cultivating to sel thee plant food," and even Prof. Roberts, of Cornell Cniversity, wrote once about the effect of "hot plowshares" in the soil, but the real physical conditions of aeration and moisture, favorotes or, rather, necessary, to nature's chemical and bacterio logical processes.
Besides being necessary for the elaboration of plan the leaves of the plant, whence hundreds solutions to acre are evaporated in a single seaso
It is thus apparent hosw severe is the draft
period, and how urgent the need of restoring the soil and dampening the soil mulch a light rain may do more harm than good, although a temporary benefit is seen in the freshening of the leaves, owing to the lessening of the rate of transpiration and evaporation while the
shower is in pro, ress, and for a short time afterwards. what capillarity is
ust here, perhaps, we should repeat once more rief explanation opity is cles for the moisture of contiguous ones. It works
cost most powerfully in moderately moist soil, where one portion is moister than another. It is less active be
tween moist and very dry soil, and much less active through a loose than through a firm soil. Capillarity may act in any direction, but on account of the fact that land ordinarily dries out from the surface,
normal movement of capillary moisture is upwards, opposite the direction of gravity.
summer this upwards flow of capillary
for it exists in the form of films
particles-is continually occurring, and by it the soin soil during the dormant season is brought near subsurface, where it fulfils its various functions in the
plant and soil economy. By wise conservation of this plant and soil economy. By wise conservation of thic
subsoil moisture a fairly good crop can be grown ev in a hot summer, though
fall during the growing season. In practice, however, no one counts on this severe drouth, but a wise farmer ly to have, and aims to conserve as much moisture as
possible, by maintaining a very thorough dust mulch The dust mulch acts as a blanket, similar to the mulch of loose leaves in the forest. The looser and drier and
deeper the more effectual it. is. Any settling togetler or any rain which packs and moistens it
usefulness seriously, making it necessary to again. It is a fine point as to when this should be
done. If the cultivator is put through as soon ground will work, the resulting mulch is not so dry or
loose as if the work had been deferred. (On the other hand, in a clay soil the land will soon dry so that
when cultivated it will break up into a cloddy surfice. Such is an inefficient muich. Moreover, until the mulch
is restored $a$ very rapid loss of moisture is going on and the sooner the cultivating is done the sooner this
is arrested and soil aeration again made free. Practice after each rain as the land will work without puddink land has been covered. In a dry time, when wery tom
of moisture is at a premium, a stroke, with the weedter will improve the mulch
By the kind of summer tillage indicated above, wood
rops of corn and roots may be grown on the stillest Clay. In general, the heavier the land the groater the
necessity of, and the corresponding returns from frequent summer cultivation. "Stir the soil after every
rain", should be the motto, and while in a showery spell of weather this
going at every opportunity, and, as a crop course the profit depends largely upon the advantag ashioned scuffer, not enough can be accomplishoul bron th simple plan. Especially is spraying a make the frequent cultivation profitable. But with hringing down mustard overflow them, annually
ong rounds and a fast-walking horse, a man can carlfles.
 ten-hour day, according to the height of th" corn and the care necessary. With a two-horse cult an may
do about twice as much. A great deal of tine mas
saved by using a harrow or a Breed's weeder for first two workings, and afterwards the weeder used alternately with the cultivator till the corn is be be done after the plants the the spraying should feet high, taking out one tooth over each row.
weeder is no good to take out large weeds, nor to a stubborn crust, but for killing sprouting seeds keeping crust from forming it is all that the manufa day, and in a soil that has been properly stirred day, and in a soil that has heen properiy still do as much good as a scuffing; indeed, more
will the whole field may
tration of roots, and ot assist free aeration. Sery
soon, however, the lateral roots upper zone and occupy the full width of the interspuce Deep cultivation would then cut off these roots, and a large extent prevent the plant from feeding in the
rich surface soil. The dept rich surface soil. The depth of tillage should be, there
fore, gradually reduced to not more than an inch a hall, and at the last a mere scratchiny of the surfaco is all that should be atterpted. . Sending the cul.
tivator down then tivator down till you hear the roots crack" is a great
mistake.
Root mutilation is not the biect mistake. Root mutilation is not the object of culti-
vation. In this connection an experiment in 1902, Prof. Zavitz, O. A. C., Guelph, is pertinent.
He found as the average of two tests, that deep cult fountion throughout the season gave a yield of 23.3 tons per
acre ; shallow cultivation throughout gave 23.6 ton Shallow cultivation at ifrst and deeper 22.3 tons, and deep cultivation getting shallower aitel wards gave 23.9 tons. In southern sections, where diference in favor of deep cultivation at first. wider Shallower after wards.
$\qquad$ be colered. a " stock solution ., of of buestone in
be made by using a delinite number of tone bluestone and a corresponding number of gall of water. This inay be haulect to the field in
barrel and the water drawn in a tank at the end of the fieldi. If a pond is adjacep, the pump barrel may be filled there. The sum Place in applied with an ordinary barrel pump through the tield, holding the nozzle so so slow attachment will be well wet. The bamboos the horizontal extension-rod, mustard-sprayim. attachment fitted behind the cart or wagon. The apparatus for this purpose. For instancectal power-sprayer (driving the rod from the whenls erich has an extension rod with ten nozzles, across. With this, it is estimated that, when the
water is handy, a man to prepare the chenicals
a boy to drive, and one horse, can spray about
forty acres per day, which, allowing good wage, would amount to about ten cents per acre i
applying. Good bluestone may be purchased quantity at approximately six cents per pound or lifty-six cents per acre, Allowing a little mar-
gin, however, we might estimate total cost of labor and material at 80 cents per acre. If an
ordinary four-nozzle machine were pense for labor would be a little higher, perhaps
20 cents. instead of 10 the 20 cents, instead of 16 . The cost of a complete
ten-nozzle power outfit would run up to $\$ 85$ ten-nozzle power outfit would run up to $\$ 85$ or
$\$ 90$ An ordinary hand pump, with necessary
hrass parts and eight hrass parts and eight nozzles, for mustard spray-
ing, could be procured for say ing, could be procured for, say, $\$ 32$ in round
figures; a similar outfit with four nozles figures : a similar outfit with four nozzles for
about 8.3 . A group of farmers in mustard-in fected districts might co-operate in the purchas of a power outfit, or, better still, a man might
get one and hire it out to his neighbors for so
much per acre for spraying potatoes, as well as wuld be useiut ing a power pump, however, there is no reason Why ordinary hand pumps should not he put into
service by attaching a four- or eight-nozzle bruss se pown chine for large plots these a horse-power mat mozzle corering 22 inches, and are made with 40 arrange their machines to works. Some maker tic, as to throwing in to work entirely automa-

Buckhorn or Ribgrass Not Poisonous.
 linst one. The plant seme was taken inch, and hay which was fed to thenr, and he thought it
might be the cause of the troubl Answor-The plant sent is the Ribgrass plantain,
also hnown as Buckhorn. It is in no way pousonn Ons. Indeed, it is actually sown in way moadows and oi stock, but particularly of the leaves to all kimds
abses of poisoning annong catule at oi the howear are due to the anmals cating the young Whants grows in low tand, water parsnip Thisuri is on low fresh ingetation, or hats a stream rumpas
$\square$ timen the poison is much dissipated, and the whath
would be pore firmly

-

Lucerne Does Not Winter-kill on the

## Hillside.

 Hiside.A shtiect upon which we should like to see some ex is profitable to give a crop of corn Fro n southern and central Ontario, we are convinced that
a man should not consider his corn has been sufficiently cultivated unless it has been gone through at least si or seven times. This may seem like a great dea
work, but if one uses his wits he can economize. is better, for instance, to go once through each espace vals of double the time. It is better to use the weeder hiree times than the scuffler once, and it will take less
time. It is sprouting than to root them out when they are big. It is, in short, necessary to give our hoe crops more are to have clean farms and large paying crops. There

## Mustard Spraying

## spraying. It has been repeated so oiten in "' The

 a three-per-cent. solution of copper sulphate, orbluestone will. species of mustard known as charlock (Brassica cereals, peas or clover, that it is scarcely neces some have tried spraying, with rather disappointing results, it may be mentioned that, unless the
work is done thoroughly with solution of strength, and at a time whe
$\qquad$
$\qquad$ cate "last summer, protesting that, although h found spraying infffectual. Enquiry revealed tha
the plant he tried it on was not that pistrum, but the jointed or white charlock wina xperimental spraying has previously boed whic of little use. Mr. Messenger is deserving of credit arrived at, instead of jumping at the conclusion
that suraying was of no use Ohservations by
nembers of . The Farmers Advocate, staft
 cultural precautions in the hope of curing the of charlock, being oily, wili lie in the the semend ion heli, ied 30 years or more-the first and greate-t .if
fort should be to germinate and kill all the semelt Weral farmers why spraying. We have heard
 tw done after the plants have developed a con-
sidtrable leaf surface, but before they come int
Whom. The point has neratle leaf surface, but before they come into
lom.m. The point has been disputed, however, by Hossoming stage, so as to kill more of the the ny plants coming on. The work should he

 , diare the folution. dissolve nine or ten hillsides, rather than with advice to

The Turnip Aphis.
Although this serious enemy of the did perhaps not quite so much harm last year,
most parts of Canada, as is sometimes the nevertheless some fields were very much injured.
and the crops of others practically ruined. curnip aphis attacks not only turnips, but also fowers. The usual remedies plant lice of all kinds, such as socommended for will answer for this insect also, when they can bd
applied, as, for instance in the case and caulifowers grown in gardens. For turnips the two remedies are: (1) The prompt treatmen
of the colonies which may be found on young tur nips about the time they are being thinned in
July and August. This may be done either hoeing out the plants which are affected and
tran (ramping them underfoot, or, if they have spread
over two or three rows, probably the easiest is to spray them with a knapsack sprayer, using whale-oil-soap solution, one pound in five (9) or of water: and (2), the destruction of the eggs in
antumn. It is particularly this line of attack
anhem, wish Which I wish to draw the attention of turnip-
krowers to at the present time. that the eggs are laid in large numbers beneath
the leaves of turnips late in autumn, and when chese the exgs hatch in the field, as is often the
case the attack any
Nlants arowing near thoi. hat and root crops are taken in. therefore, it is important either to turn in stock to feed on the turnip tops.
or if this is not convenient, to have these plowed down deeply in the autumn, so that when th
eggs hatch in snring they will he unable to reach
flants which thoy plants which they could infure I need hardly
loint out to Canadian farmers that turnips or
por abbages should not be grown on the same lan
wo years in succession. JAMFS FLIMTCHER.

Pasture the Clover-seed Field.
Though well known in seed-growing districts,
$t$ is not so well understood in some other sec tions that the best way to get a good crop of
red-clover seed is, to pasture the first crop until
about June 20 th, or else mow it very early, de-
pending on the second crop for seed. This has been found necessary to combat the clover-seed
midge (Cecidomyia leguminicolat, a small, legless pink maggot which eats out the contents of the
clover pod, and thus destroys the seed. It has been the cause of very serious loss in all parts of
Ontario where clover is produced. There are tw, broods in the season, corresponding with the twe crops of clover seed. The eggs are laid in the
forming flower-heads of the clover; when these
hatch. the maggots penetrate the seed-pods. When hatch, the maggots penetrate the seed-pods. When
the larve are full-grown, about the end of June,
they leave the clover head ance into the ground to pupate. The perfect in erts forming the second brond, emerge from the ggs amongst the forming blossoms. These eggs soon hatch, and about the time the seed is ripe
the maggots leave the clover, and enter the ground o pass the winter, whence they cmerge again th lext spring just about the time the clover comes
nto flower. Feeding off or mowing the first
rop of clover before June 2fith destroys the im rop of clover before June 2 oth destroys the im-
mature maggots, which naturallyt reach full
mrowth about the end of June and from which the
next brood, which attacks the seed of the second

## New Lines of Farmers' Institute Work

## several States of the American Union, not Tippecanoe Co. Indiana, the County Farm


 'ompetitors be residentse of the County, $\begin{aligned} & \text { bend } \\ & \text { members of the Inst } \\ & \text { anstitute or Hememakers. Associal }\end{aligned}$
(3) tions as well 1 as ploures ming matchns and anch compmeti
 have heen given, illustrating differemt methots ol
hutt ivation and various styles of implements not ..The crop of potatons will usually increase in
woportion to the number of times the rotatoes are cultivated during the growing season, says
W. T. Macoun, of the Experimental Farm, Ot awa in his bulletin on potato culture. "There
"as found to be an increase of 40 bushels per
tre in a crop cultivated six times over those
ultivated three times."

Training Roadmakers.

## your paper for opinions on ont he subject of road

 which I hope may be wart wiews on the matter I have for a long time taken much interest in good roads, and have, on different occasions, ex-pressed my views in the local press, but fear they tainly, so far as any results are apparent, might as well have kept silent. However, I am seed to fall on good ground, and may grow be a a remarkable thing that while Furope, though 1 own 1 have not been to see
them, the roads should be reputedly kept always in a state of perfection, in Canada there seems to times, might suppose that, in these enlightened countries, when so many people travel in foreign tants of, say, France, Germany or Britain, to making, yet such is clearly the case; of road
some improne some improvement would speedily be seen in our have visited the countries named, as well as
others where the sufficient consequence to enlist the best energies and talents of eminent men; but if any from pear to be carefully guarding it. An engineer
who is interested in the subject, expressed his be lief to me that there were not three of his pro-
fession in Canada who were masters of that hranch of engineering. If that be the case, how
can we expect much can we expect much improvement?
One day recently I drove through the $\mathrm{Q} . \mathrm{V}$
Niagara Falls Park Niagara Falls Park, and noticed the building of a
new piece of roadway therein. An excavation of
ahout about a foot was made, into which wav put a
quantity of stones, the average weight of which quantity of stones, the average weight of which
would probably be from 10 to 15 pounds, and
over that was spread a layer of rravel and earth taken from an old gravel walk nearby, I don't
know what the next course is to be, but whoever is responsible for such work should not have to There is a Government park, with an income of a
good many thousand dollars a year, employing some ignorant pretenders to do a piece of work In the City of Niagara Falls may be found as fine examples of how not to make roads as one could
wish to see, and the thousands of dollars annual. vish to see, and the thousands of dollars annual-
ly spent on the streets is a clear waste of money, ly spent on the streets is a clear waste of money,
for they are little if any better than they were forty years ago. Ask half a dozen men of averand it is safe to say you will get as many differ-
ent replies. There is more or less a aritation throughout the country for better roads at the of it, but it seems to me, to get at the root of the Government can do no greater service to the ountry than by having the subject taught in the pend on municipal councillors, it will be a long for generations.
E. W. TENCH

INote.-It seems to us that for the attainment of
s|reedy and satisfactory results, the subject of road making and maintenance should be taken up at the ontario Agricultural College in a systematic and compre-
hensive manner. At this institution we have assembled o be leaders of agricultural and municipal life in their
respective communities, und a thorough training in the Not Afraid of His Windmill.
 May 3 rdswer is.e, we differ with the writer on that
guestion. We think the windmill the most suit. able power for any average-sized farm. We grind
athout two thousand bushels of grain per year with one set of pates, and pump, ail the water for the as th would he done at a regular mill. We also
cut the straw. In our experience, it is not a very "apensive outfit to run, bering now about twelve cher machine, and no worse for wear than any never heard of one doing so. P'erhaps your On-
tario Reader had better tether his, I am afraid I am taking up too much space in you every success,
NORTON BROS.

THE DAIRY.

## Ths Milking Machine Again

Those who read in our issue of Feb. 1st the ish agriculturist, with the milking machine, and in our last issue, the reply of a firm manufacturing milking machines, will follow whith interest British Agricultural Gazette, the paper to which he previous correspondence was addressed \& Co. have written, though like the Royal Chairlie it has been 'lang o'comin'.' I do not intend to waste time carrying on a controversy, but some statements of theirs on the use and effects they make require a reply from me msinuation - gratuitous balderdash abo my skill on machinery of which I know but little s quite unnecessary. The inventor himself came the latest modifications and improvements that came out, until I gave it up. If it was not the machine that reduced the milk yield, then what found there was no chance of improvement, and he labor and expense connected with it would wamp it, even if it milked the cows effficiently. cows were not quite the kind insinuate that my and that they were inferior anyway, and therefore could not yield well. First, may I ask what is the use of a machine if it will only millk ordinary average herd as it stands? Secondly in what way is, or was, the yield of my cows inCorior when hand-milked? Messrs. Fleming \& point, as the following figures will show : ${ }^{\text {this }}$ average yield of the cows of the British Islands age vield of twelve gallons per head; the average yield of twelve herds of Ayrshires, given in
the volume of the Highland Scciety's Transer tions, just issued, is 531 gallons, the lowest bein 468 , and the highest 707 gallons. Now compare these with my own figures $:$ With the exception o he time when the milking machine was in use less than 600 gallons per head per annum, and 0 several occasions over 700-good and bad take together, without any special selection, and I be is the sense, therefore, of saying that my Wha were not good subjects for trying the milkin machine on, as far as milk yield was concerned with 25 cows belonging to Mr. Clement, at Nethed wood. I always understood that there were be $t$ ween 30 and 40 cows at that farm, hut, in any gallons per head. I have no hesitation inge 920 that these are the most remarkable cows in the whole earth, for I am an Ayrshire man mysell and have handled Ayrshires all my life-have go some in my herd now direct from Ayrshire-and To speak plainly, however, may I ask Messrs. Fleming \& Co. What good purpose they propssese to serve by publishing a lot of figures like these see that this herd is one of those included in th Highland Society's tests, and if they base their
table on these tests, the the table on these tests, then they have omitted to standard of 3 per cent. of fat ; that is, the milk is analysed, and then the gallons are computed on of fat. In this way the milk down to 3 per cent gallons comes down to about 700 per head of 920 tual yield, while if they will include the weaklings and heifers-as I did-it will bring their averago
down to mine. ". The main point of the whole matter is, how less milk with the machine ger annum 250 gallons hand, and that when we dre, per annum, than by went back to the hand, they got up to their old
yield in anout that even if the apparatus had time again; and a milker, the trouble and expense of running the same was prohibitive. The very boiler itsel in it, as I continued to use it for steaming purposes after taking down the milking apparatus. fifty years to perfect, and is now a bunder too' may be possible to yet perfect the milking it chine, but I cannot help remembering that it is ing machines were first takence patents for milkrejoice more at the success of the milking one will than myself, because all my life I have been eager methods of try new and improved machinery and methods of doing work and saving labor; but, vincing in the matter of successful mechanical milking, and will let other people develop it for a rong time before I touch it again
The cultivator, light harrows or the Breed
weeder is the best watering pot for a

Cow-testing in Brockville District. The fonlowing is the result of the testing under the
Dominino Dairy Commissioner's Branch, in the Brock-
ville Distrtet Aecintion
 ending with the close of February, March and April.
A reeord of over 54 pounds Axecord of over 54 pounds of tutterfat is a strikin
expurale of what some cows will yield, and should ent
courage all dairy farmers :

| No. of <br> Cows. <br> 5 | MonthFebruary | Average Yield per |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | ${ }_{\text {Milk. }}^{\text {Lbs. }}$ | Test. | ${ }_{\text {Fat }}^{\text {Lbs }}$ |
|  |  | 1435 | 2.9 | 42.9 |
| 7 | March | 1109 | 3.2 | 35.6 |
|  |  | 1901 | 2.9 | 54.4 |
| 1 | . | 855 | 4.2 | 35.9 |
| 4 |  | 507 | 3.5 | 18.0 |
| 14 | Average.......... | 1032 | 3.2 | 38.3 |
| 10 | April | ${ }^{853}$ | 3.0 | 26.0 |
|  |  | ${ }^{1271}$ | 2.9 | 36.9 |
| 11 | .. | ${ }_{886}^{749}$ | ${ }_{32}^{3.4}$ | 25.9 |
|  | .. | ${ }_{872}^{886}$ | ${ }_{3}^{3.2}$ | ${ }_{2}^{28.5}$ |
| ${ }_{3}^{5}$ | .. | ${ }_{683}^{672}$ | ${ }^{3.2}$ | 21.5 |
| ${ }_{3}$ | . | -683 | 2.9 | 20.0 |
| 1 | . | 830 | 3, | ${ }_{27 .}^{23.7}$ |
| 6 | " | 838 | 2.8 | 24.0 |
| 50 | Average.......... | 828 | 3.1 | 25.9 |

The Scotch to Breed Ayrshires for Mijk er, "is coming the Ayrshire dairy cow whic pays not by winning a prize for fancy cow, which
teats but for vielding
and teats, but for yielding a profit to the dairy farm-
er. The day has been long in coming, and even er. The day has been ong in coming, and even
yet it but grey dawn, but the demands of the Canadian, who means business, and the operation of the milk standard, are teaching the Scottish the tight vessel, short teats, and make-believe body, is not necessarily the kind which gives milk of the more prominent patrons the mill some section are opposed to the milk-record scherre when it was applied in some such stocks, it prov ed how illusory was the idea of securing profit from cattle having only fashionabie vessels and
toats to recommend them. teats "Many show animals in
no use whatever for the Canadian Advanced Reg ister, as they are not pedigreed in the right sense
$\mathbf{A}$ right pedigree includes both herdbook ancestry and ancestry with a milk record for several generations. In view of these things, it is necessary that the believers in the milk-record scheme
should bestir themselves tinuance of the work which has been going on dur ing the past few years, they must not be caught napping." There is a strange glamor about the show-yard, and the honors secured there cover
a multitude of commercial defects. The a multitude of commercial defects. The tyro may
be taken in by a first-prize ticket, lut a man who means business want-s to see the milk record." Wh application of the tuberculin test by Canadia importers of Scoteh stock, clinching a well-ground ed appeal to breeders with the hard-headed refrection:
iticism of the may be said by way of advers is before us that forceign and colonial buyers be-
lieve in it, and their trade is worth lieve in it, and their trade is worth cultivating.
Scotland has splendid herds Scotland has splendid herds, flocks and studs, but
she cannot dictate to the world. tage gained is to be improved on, she must, in re spect of milk records and testing, lead, and not
follow?

Bulletin Board at Creamery or Cheese Factory.
 having name of each farm on road pater surgests
and also advertising any farm produce thereon, For the latter purpose, I have often thought it
would be a good plan to have a large blackwourd, or something similar, placed urgerer cover on the front of a creamery or chesese factory
(which is generally situated at some public place) (which is generally situated at some public place)
where any animals or produce could he reported for sale, for the
Traders, farmers, etc., wanvience of the pany hing patrons
kind, could see in a minute where it of that kind, could see in a minute where it could be ob-
tained in that vicinity.
W. A.
OSWA.
two Mountains, Que.
Two in that
In 1905 four creameries in Suskat chewan
turned out more butter than twelve did three
years ago In 1965 about one and a half million.
pounds owns, and about a quarter of a million
ewan
pounds of creamery butter was made. At the
average prices, the makers of dairy buttrr were
out one and a half cents a pound for labor, tubs

## and salt.

The Use of Lime in Danish Creameries. iced Danish creameries, which years ago prac ficed the "steaming" of all churns, cream bar order to keep them sweet and regularly, in Marker, in the them sweet and pure, says C , uare Bulletin, on "Some Phases of Dairying in Denmark," now simply scrub them in hot water, nd while the surfac a Which is partly absorbed by the pores of the wood, purifying and making it bright and firm.
The surplus lime is afterwards washed of The surplus lime is afterwards washed off. being much superior for cleansing of wanposes, sod soda,
great deal cheaper as well. and sour smells from floors and anemoves arease
tinware brighter, and the grain of the wo meses tinware brighter, and the grain of the wood firm;
bright and close All articles used in preparing
fermentation starters are kent fermentation starters are kent used in prepergarin
barrel of clear lime water when not in use. in barrel of clear lime water when not in use.
Lime has no superior for removing grease from floors if applied in a fairly thick
layer, and left on for a few The by-l-lws of some creamery associations recommend strongly to the cramerry associations
instead of soda for washing thero instead of soda for washing their milk vessels, as
well as for whitewashing stables, milkhouses, etc.

## POULTRY.

## A New England Poultry Farm.

Theoretical poultry-farming seems to have a
$\begin{aligned} & \text { pecelliar fascination, and perhaps more theory, } \\ & \text { with less practice, has been written }\end{aligned}$ 隹 with less practicice, has and peen written about poultry-
keeping than any other industry keeping than any other industry.
It is refreshing to
plant that is rung by be able to visit a poultry Of all such plants I ever visited the man, Carm-or ranch, as it is called in in Connecticut-o the pory
Mr . Tillinghas $A$ few of the ideas in operation in most practical be of interest to your readers in his plant might Tillin way of introduction. I might sav that Mr Tillinghast is a keen, intelligent Yankee, a man
who for the last twenty Who for the last twenty years or more has been a that time a hen theory that Mr. Tillinghest has
not tried. hot tried. He has had breeds from the Cochin o the Bantam; houses from the house heated by feet long, and houses only large enoligh for of pen; yarded runs and free range, enough for one
brooders of of cutors and mashers of every description; he has fed hot mashes, dry-grain ration and no mashes and wet has fed four and five times a day, and he has ; he once a week; watered twice a day, and not at
all: he has cleat all ; he has cleaned his houses once a day, and he
has left them two years without cleaning at
there doent
 Tillinghast has not experimm nted with, that Mr .
methods followed at present should have no the xperimental value Though these Tillinghast is no extemes have been tried, Mr. ${ }^{\text {Mr }}$, extremist, luy a practical
man who makes tho possible outlay, the most miney with the least
an income that mo mis farm he is making His ranch contains business men might matry.
Hivided by rout ino acres, and is divided by roads into three sections, ones, and
at
ane home, of


 stating than anything. he has signs up. plainly
dogs, found trespassing will sprecially men and

 Cannot hlame this manawe faters doners ote onn


 him, he says, to use them nate. It domen't pat


 -

chimney. The advantages of this lamp are tw...
fold, cheapness and size, it requiring to be fill only about once a week. His brooders are mad. by Mr. Hare, and used at the Poultry Stations. a box with a zinc top, under which is the lams and over which is the hover. On this box ther, is, and a board high enough to keep the chick fresh air. These brooders are placed in colance houses, which in turn are placed in the orchard oi
small fruits small fruits.
As soon as the are fed out of a small hopper, into which in the. screening wheat. In this wheat is a slight mix
ture of seds. liax, buckwheat, cracked corn and other The care, even with very young chicks, is com-
paratively light, as the lamps and hoppers refiling only once a week. The chicks are keept
here until the and and here until the small fruits are getting ripe, when
the cockerels are taken out and all but the the cockerels are taken out, and all but the best
sold as broilers. The pullets are removed to the laying ranch, where they grow up with other hens.
Going to the White Mr oing to the While Leghorn ranch, which is
it
arres with
with acres without an inside fence. About 2.000 lay-
ing hens are housed in colony houses, 50 to ato
to to each house he The houses are 10 feet by 20
feet, with rosst feet, with roosts at the west are 10 and feet by 20
dows in the south side. The house windows in the south side. The house is made of
single sheeting, battened, and costs less than of cents per hen. Along the north wall is a row 50 nests. On the left of the door is a hopper, into
ohich the faed which the feed is put one a week. This hopper
is simply an old box. made so the is simply an old box, made so the grain will feed
into a trough out of which the hens small hopper holds a supply of meat meal. and ovster shell. There are no fountains or dishes ior water ; a small spring creek running through
the farm supplies the hens with fresh the he winter, when the snow prevents the wenc. In ting to the water, they sat prevents the hens got
situated so to that in a single trip a horse and wagon passes each mate is about 4 or $5 \mathrm{p} . \mathrm{m}$., when the eges Colldered with a man and wagone whe te eggs ar
Exceptionally
 In the 3,000 or more hens on the shed. was not one that was not in the pink farm, ther hon. To look after his whole plant he had only one hoy that he paid less than $\$ 15.00$ eper month one
board. I Iast year his hens notted him and age of $\$ 1.00$ profit.
his hens netted him an aver.
He thinks that on the land he has he colld handle 5,000 laying stock with
the same help The colony houses seem pretty small for the
numbers they accoummodate so much fresh a ar that it is practically outdoors
and while the the and. While the temperature goos as low as 26 be-
low zero, very few frasted comber Iero, Very few frosted combs were seen.
I behardiest fowl, but those seen here, bonsthered the and Brown, were apparently quite hardy, largely
Owing to the fresh-air treatment the had re.
ccive to $M_{\mathrm{y}}$ Ior several generations. had rehough aill the there was most interesting, and

The Preservation of Eggs.
.ind after poaching, to the non-fertilized eggs in the them up strong. It isn't the number of colonies
in
in the apesiary that indicatis what the honey crop
 (inctly pinkish-red color ; the yolk thin, discolored and
d.graded. On cracking the egg, preparatory to poach- $^{\text {ond }}$, HIg. it was found impossible to prevent the mixing of
Ho white and yolk.
From fifty to seventy per cent. The white and yolk. Froom inty to seventy per cent.
 Hisarreeable appearance of even the best of ihese egss,
Nulld entirely prevent their use on the table. No difirence of any moment could be observed betwen
firtiliied and non-fertilized eggs in this preservative.
FRANK T. SHUTT,

Chenist, Experimenta "The Farmer's Advocate", gives a great man

7

## A Bumblebee Apiarist. <br> who makes a specialty of sheesp and clover seed and also keeps bees. To "'The Farmer's Advo cate," recently, he described an ingenious system of ensuring the fertilization of the red-clover blossoms. He pays the boys of the neighborhood 25 cents for every bumblebee's nest they locate for him. This he then moves to his own premises. He inverts over the nest a funnel-shaped screen, with a small hole in the top leading into a littie box. By stirring up the bees the gets them all into the box, and then takes up the nest, and transports bees and all to some convenient sint on his farme spot on his farm. In this way he has almost "cornered ". t the bumblebees of his neighborhood. In winter he protects them from mice by putting over the nest an oblong hardwood box, say 20 over the nest an oblong hardwood box, say 20 inhere tong by 10 or 12 inches wide, and the same height A small hole, protected by a piece of hin to prevent mice enawing it larger, permits Lin to prevent mice gnawing it larger, permits cgress and ingress of the " king bee." As a result of his pains, Mr. Kelly grows large fields of clover sced, averaging four or five bushels per acre. Those living near him get good crops of seed. Mr. Kelly related an interesting experience of one year when he had pastured with sheep a n held scond crop, blossomed beautifully, and ne ncighbors seclared it the finest they had ever seen. It was, declared it the finest they had ever seen. It was, however, a lit the too early for the bumblebees, and no seed worth mentioning wis secured.

Soring Notes
Don't "spread brood" "until you have been
heoping bees and working with themi for ten years.
Thoro is not much There is not much likelihood of your doing a
great deal of it alter that time. There are cases where it can be done to advantage, but even an
old hand misses his guess on it sometimes (es. and a beginer is almost sure to make blunders
 cpaled honey out of one side of the hive and bruise
the carping with a flat knife or something, t. Whe the bees take it up fast and move it int,1,
The brood nest. Do this every fow days, unless honey is coming in well from the fields. If there
inn't a comb of honey in the hive, put one in if vol can get one.
Kerer the entrances small until settled warm
wrather. which seldom comes berore the end of
Nav

 The combls het wern the tivo outsite combs, con


 (1) Clean Farmingre. The keeting down of all (1) (llean Farming. The keering down of all
voeds and the hurring up of all haulms. stoms of
vaped crons and refuse, as early as possible in he autumn atter crons are reapod, will destrov
 "hore thre will be an ahundance of food for Lares numbiers may he destroyed
or at short distances apart on infested land bundles of any succulent weed or other vegetation ping it, after tying in bundles, into a strons mixture of Paris green, one ounce in a pail Tvater. The cutworms eat the poisoned plants
then bury themselves and die. In hot, dry weather these bundles should be put out after sundown, and a shingle may be placed on each to keep it from fading.
(3) Banding and Wrapping. (a) It will be ound to well repay the trouble and expense to
place a band of tin around each cabbage or other plant at the time of setting out. These may very easily be made by taking pieces of tin 6 spade or broom handle, so as to form short ubes. In placing them around a plant, the two ends can be sprung apart to admit the plant, and then the tube should be pressed about half an inch neans of disposing of empty tomato and other cans. To prepare these easily, they need only ke thrown into a bonfire, when the tops and bottoms all off. and the sides become unsoldered the central piece of tin can then be cut down the cen
ter with a pair of shears, and forms ${ }^{1}$ two tubes. (b) Wrapping a piece of paper around the
tems of plants when setting them out, will also ave a great many
Hand-picking, or digging out the cutworm herever a plant is seen (4) Poisoned Bran Mas

Poisoned Bran Mash. The most remark-
effective remedy against cutworms is the poisoned bram mash which has come into such wide use. This is made by mixing half a pound
of Paris green with fifty pounds of slightly moistened bran. In making this, it is best first to dampen some of the bran slightly with water ontaining a little sugar. After mixing thorough y, add the Paris green by dusting it on the sur-
ace, and stirring all the time. We have found that when Paris green is added to perfectly dry bran, owing to its weight, it will sink to the bot tom when stirred, in the same way that it doe to poison fifty pounds of bran, although double his amount may be used. If the mixture is too et, more dry bramble easily and run through the fingers without adhering
When required for garden use, all that is neces sary is to sprinkle a littie of the poisoned mix ure by hand around such plants as are liable t a convenient way is to make the mixture rather dry, and then distribute it by means of a wheel ing crops injured by the Red-backed Cutworm, the poisonedbran remedy is also serviceable. The mixture can be distributed by means of a paddle or shingle feet. When distributed in this way, there is much less danger of chickens and birds picking it up than if it is placed in lumps.
Danger. The question of danger from the use It is frequently enquired about by correspondents; and some instances of the poisoning of poultry where it had been used, seemed to be justly at a rule, there is little danger from this cause. The quantity used is so small that it is not noticed by pouitry ; and then, in gardens, poultry do so much harm to plants that they should never be
admitted at the time of the year when cutworms occur injuriously, and only at special times of the year, when there are no crops to injure. If, however, there should be a bad infestation by cut worms. and there is no means of barring out or
driving away the chickens, the owner of the crops must decide whether he will lose his crop or take special means of protecting his chickens. The exthis remedy, without taking and special precau ions, is that injury to domestic animals is ex tremely rare; and, although I have been on the atch for any trouble of this sort for many years,
do not know of an instance when poultr have heen poisoned, without doubt by eating pisoneत bran put out for cutworms. However dens may be protected by puiting out the poisoned bran in small heaps, and then covering them up that the material cannot be got at by stray chick ens and other poultry
It has also been asked whether there is any
danger of plants absorbing Paris mixture when placed near their roots. In reply to this, it is only necessary to point out that iore cannot be absorbed by the plant. - [Dr. Jas
Fletcher, Dominion Entomologist and Botanist.

## Potato Planting

In some parts of Ontario potato-planting is now deferred until considerably later than used be the case, many good growers preferring to later part of May, or even the first of June. avorite preparation is a spring-plowed clover sod, which has been winter-manured with from 10 to tion of fresh marnard manure per acre. The applicaed a ed against, on the ground that it tends to increase ground or on the seed. Liming fungus is in the able to the development of this fungus by bring ing about an alkaline condition of the soil. Plowing under a green crop tends to a rather acid Scabby seed may be made fit for planting by treating with formalin solution, as described previously in these columns, and it may be considered reasonably safe to use a moderate quantity oi applying in spring, it is safer to use rotted than apesh manure. A method of planting which has
given good results is given good results is to plow the sod four or has the sets twelve to fourteen inches wide, dropping third furrow, and taking pains to kart in every
close against set again, work up the last-turned furrow. Others
and plant after this manner at ane state of tilth, and plant after this manner at a second plowing,
Still again, some open the furrows with a double
mouldboard mourdboard plow. Some open and close the the holes with a hoe. In these days of scaill dig labor the latter should be considered an obsolete which will make the row. open the furrows, plant or drop the sets, cover them, and apply commer
cial fertilizers cial fertilizers at the same time, if desired. tubers. pand cut, intolect medium-sized, smooth pieces. The flesh
the potato nourishes the the potato nourishes the young plant, upon the
start of which depends the crop to start of which depends the crop, to a considerable
extent. It is poor economy to anly coat of manure or fertilizer, and then defeat the the young vlants get an insufficient send-off tha pavs to plant large sets. After cutting, plant and cover the sets-not too deeplv-as soon as
nossible. If allowed to wither nossible. If allowed to wither. the crop will he
less. Fxperiments indicate that an increse land plaster ontained bv coating the sets with to be cut a few davs or lime, if the potatoes have After planting, and when the vines
un above ground, a thorough harrowing coming stroy young weeds. admit air, and will produce
soil mulch to hold moisture soil mulch to hold moisture. After this it is Paris green for bues, but with Paris green with
Bordeaur misture Bordeaux mixture for bugs and blight.
widely. The hest rule is for , opinions differ a variety that has been found adapted to plant locality. and suitalle for his orin table use, or
the market to which he own
hat am very fond of your valuable paper no and find in it a great deal of valuable informe time
and
ion. CHAS. HANCOCK.

## THE FARM BULLETIN

and anman





 who graduated in 1903, was olected to the position Assistant or rofessor of Animal Musbandry and Superin-
endent of the Dairy Farm. tored the employ of Swift \& Company, as salesman on- in
their Animal Food Department. He had charim of the
 Huslandry at Purdue University Instructor in Animal He will now devote his sole time to instroct
investigation in connection with dalry cattle.

## East Prince, P. E. I.

ner are through the air the the swallow could be seen dartin great deal of rain lately, and at date of writing tha ing will especially the low, flat land, is very wet. Seed ing nicely, as the weatheren with, but the grass is grow and warm, and if we can just manage to to has been nice off the fields until June 1st, we would have good pas-
ture all summer ture all summer. The clover is coming out better than at lirst expected, and the prospects at present are fairly Our cheese and butter cut.
shape for a big season's work are again getting incheese and butter is most encouraging. Farmers should but the expenses of runhundred pounds for their milk, creasing each year, particularly the hauling of thare inmilk routes that cost 4 c . or 5 c . per hauling of the milk ; some years ago now cost 9 c ., 10c. per hundred pounds
This makes poisting the price per This is an excellent time for ting up both wire and pole fences. I wish to say word about the farmers' road front. How nice it is to
see, while going through the see, while going through the country, the farm-road fron
neat, snug and attractive into the road gutters. There are far crowd the fenc that are now mere lanes, because of the greed of those orning land joining the public highway. Take a day good shape, and then gather up all tubbishd fence in bushes and cart them into your field and burn small up all large trees that are a reasonable distance from the roadside, and if at any time you need some clay from cradle hills and make the roadside but take it of the travelled on in winter and spring when necessary be few rock maples, birch or willows planted along the erty, and be a pleasure to the the value of your prop with regard to the tot the passerby see that Captain Read, one of the largest shippers
Island produce. Island produce, advised the farmers, through the local press, not to do a way with the old Blue or McIntyre
potato just yet, but plant at least half of this a crop with this old variety ; and a few days later then same gentleman, advertising for a quantity of potatoes ar shipment, asked for 500 bushels of Green Mountain and the McIntyre potato is still wanted and is prove
that
to be wanted ind Lo be wanted in the markets abroad. The price of potatoes so far this spring has been low; 20 cents per
bushel has been the ruling price, but they droped $18 \ddagger c$., and just now they are not wanted at all at to station on the line. Oats are coming up a little, 39 .
is now being per now being paid; some extra quality will bring 40c. large and fat, for plentiful, at $\$ 8$ to $\$ 9$ per ton. Bee
weight. Milch cows are delivery, is sold for 5 . factory prices are being realized. looked for, and satiscows sold at sales this spring for $\$ 40.00$. Eggs are
worth about 14c. per dozen. The weather is getting

The West Middlesex Situation

## which I must say is improving all the time, I wouldn't like to have to farm without like to have to farm without alt. I I give, y would a few notes on conditions in this locality- West Middlesex We had a very mild winter, and spring apened

 Tight, lut on account of dry weather since have hilled
out on high land considerably. Spring grain gener-
atly is coming well, especially on fall plowing. There
has been a great deal of barley and



 ind s.c. While are a trifle easy: finished cattle bring-
$\$ 4.90$. Milch cows catile bring from $\$ 4.50$ to


Short handed. and conly trouble is thir that section could he watigoon district, showing that

Sale of Pinneer Farm that section could he sumcessfully fracmed, showing that
quartars for enquiring sett ters, and be an encouragement
to others in pioneer work, it was decided to discontinue
the furm
season was late, owing to the not been begun here. The had last month. Clover the great amount of rain we the winter well, but in some places where it was feis the fall it has been winter-killed. The grass $f$ of are showing up quite green. A late season means Wosh when we do get started to work the land nowadays nearly all of the plowing is done in the fall, Oats are a fair price 16 to 20 cents per bushel. The cellars are from potatoes, not many being shipped last fall on and good prices, Horses and fat cattle are in deman articles of export, and a fast-growing of our biggnst 15 c .. about the highest price ever paid one, are worth the year. Our exhibition is likely tore at the tim go towards increasing the neminion grant of $\$ 10,000$ win hibitors in the matter of freight on live stock ang exintended that the Exhibition Association will pay a distance of more than 15 miles-this the show fro iberal arrangement Truro, N.S., and Moncton, N.B. Thu hibits of live stock from Nova Scotia and New Rex Our, show well as from distant points on the Island 12th of October, but as our season is perhaps it will suit all the better. Mr. F. W. Broder Agriculture Ottaws. Mative of the Seed Branch, Dept after the stocks of seed offered to the Island looking seed merchants. He reports the quality farmers by the ur farmers are demanding a higher grade of seed pood anced and most of them are willing to pay the ad hanced price to get the highest grade. Tuberculosis our "Government Stock Farm." There herd kept at herd that have reacted from the tuberculin test. 18 the isolated. The Government are coughtered, but have bern of doing away with the whole considerin's the matter with herds of superior animale herd, and replacing them dairy breeds. The cattle kept on the Governmeet and breeders, and the form those kept by of our best time that the stock farm be done away with for some or else stocked with up-to-date utility herds altogether
Our tendered Secretary of Agriculture, Mr. J. C. Readey, has difficult, as it includes the oversigh here is somewhat Institutes, lecturing at the Prince of Wales College, and
looking after the Gores
Excursions to O. A. C., Guelph, June,
Saturday, June 9th-Lincoln.
Monday, June 11th-N. York: C. Wellington.
Tuesday, June 12th-E. Elgin; F. and w. La Tuesday, June 12th-E. Elgin: E. Wellington.
Wednesday, June 13th-C. Simcoe: S. S. Lambton
Simcoe: E. Simcoe.
Thursd Friday, June 15 th-Haldimand; W. Wuron;
Saturday, Hune elland. Monday, June 18th-Halton.
Tuesday Tuesday, June 19t-Hecelon. W. York
Wednesday, June 20th-N. and S. Wedne
orth.

Hastings; N. and S. Norfolk. and S. Brant; F. and W
Friday Friday, June 22nd-S. Grey; F. Kent; W. Elyin; F Saturday, June 23rd-C. Bruce; S. Bruce; F. Huron Monday, June 25 th-N and S. Waterloo E. Huron Tuesday, June 26th-Duferin; N. Mitdlles.x: S. Went
$\square$

The Oid Flag.

THE FARMER'S ADVOCATE


|  | in each end and the center onc., and driving the s <br> he does for corn. This b,rings the mangel rows <br> kes apart, and sows three rows at a time. |
| :---: | :---: |
| Dairy Notes from the Ontario Department of Agriculture. |  |
| . cheese industry of the Province were never more |  |
| favorable. The reports received by the Department thus far, indicate an unprecedented |  |
| rroprietors and managers of factories to put their |  |
| insure a high-class product Nover before in |  |
|  |  |
| tory of Ontario dairying was so much money spent in replacing old wooden floors with cement, repairing and painting woodwork, whitewashing old walls and |  |
|  |  |
| whey tanks, making provision for an adequate supply of |  |
|  |  |
| "hich will be seen in the more uniform quality of our 1906 products. The creameries |  |
| - the ground gained in the English market, and |  |
| ducers of good butter will the made even more secure |  |
|  |  |
| during the coming season. Improvements in methods and equipment are evident on all hands, |  |
|  |  |
| The producers, the men who own the cows and sup- |  |
|  |  |
| are coming to realize the |  |
| $y$ play in the production |  |
|  |  |
| and care on the part of those who have to do with the raw material before it reaches the hands of the manu |  |
|  |  |
| urer of the finished product. This is shown by the |  |
|  |  |
| 隹, and the demand made by many of them, that the |  |
| maker in the factory to which they send their milk |  |
|  |  |
|  |  |
| results following the instruction of the past few years s. no doubt, responsible in a great degree for all this |  |
|  |  |

activity, and the recent action of the Doparn in making provision for sanitary inspectors is already ing a healthful influence. The owners of factories and creameries realize that sooner or later their premises must be thoroughly sanitary, a fit place in which to
manufacture food products made from milld and crea manufacture food products made from milk and cream the limited quantity of cheese and butter in sight, and the unprecedentedly high and uniform quality of the product up to date, especially of the cheese, the indicatotal make of cheese for the month of May will be from ten to difteen per cent. less than last year, due largely to the somewhat back ward season, the large number of farrow co
Summing up all conditions and facts, the conclusion is forced upon us that the total output for cheose for and will probably fall somewhat short, but the quality

## Fair Dates for 1906.



## THE CANADIAN BANK OF COMMERCE

Paid-up Capital, $\$ 10,000,000$. Reserve Fund, $\$ 4,500,000$
HEAD OFFICE, TORONTO
B. E. WALKER, General Manager ALEX. LAIRD, Asst. Gea'l Manage BRANCHES THROUGHOUY CANADA, AND IN THE UNITED STATMS AND IHNGTAND A general Banking business transactod. Accounts may be opened and conducted by

SAVINGS BANK DEPARTMENT Deposits of $\$ 1$ and upwards received, and interest allowed at ever in the withdrawal is subject to no delay what portion of the the whole or any

...


## \$1.00 Opens an Account <br>  With the money saved, they are lay ing the foundations upo which $\mathbf{a}$ fortung may be built. We ordit INTEREST QUARTERLY in Savings Department. <br> The Sovereign Bank of Canada.

mata St BRANCHES

MARKETS.
Toronto

but succeeded in getting four teams.
They averaged about 1,650 lbs. each.
The average cost was somewhere around They averaged about 1,650 lbs. each.
The average cost was somewhere around
$\$ 260$. He was offered $\$ 150$ on his bar\$26i. He was offered $\$ 150$ on his bar-
gain the day the got them into the city.
On the whe On the whole, the market is firm and
steady, at around the following quotasteady, at around the following quota-
tions: Heavy-draft horses, weighing
1,500 to 1,700 lbs. each, $\$ 250$ to $\$ 300$; light-draft or coal-carts, $\$ 1,400$ to 1,500
libs., $\$ 175$ to $\$ 225$ express horses libs., $\$ 175$ to $\$ 225 ;$ express horses,
weighing 1,100 to 1,300 lbs., $\$ 150$ to $\$ 200$; choice saddle or driving horses,
$\$ 350$ to $\$ 500$ each, and common stock, $\$ 75$ to $\$ 125$ each.
Provisions and Dressed Hogs-Dressed according to quality. at 10 c . to 10 itc.
Barrel pork advanced 50 c. , to $\$ 21$ to $\$ 24$ per bbl.;
hams steady at 13 sc . to 14 c . for large; hams steady at 13 yc . to 14 c . for large;
14 jc . for medium, and 15 c . to 16 c . for small; bacon also higher.
12c., according to quality
Hides - Market shows considerable strength, beef hides advancing tc. per fairly large, but demand has brushed up considerably. Beef hides quoted at 10 c . 11c. and 12c. per 1b., respectively, for Nos. 3, $\mathbf{2}^{2}$ and 1, tanners paying tc.
over these buyers' prices. over these buyers' prices. Calf shins
are also in active demand, and dealers have advanced their buying prices to 15 c . per lb. for No. 1 , and 13 c . for No. 2.
Sheep skins are $\$ 1.15$ to $\$ 1.20$ each, and Sheep skins are $\$ 1.15$ to $\$ 1.20$ each, and
clips and lamb skins, 10 c. to 15 c . each. Horse hides, as usual, are in poor demand, but prices are steady, at $\$ 2$ each
for No. 1, and $\$ 1.50$ for No. for No. 1, and $\$ 1.50$ for No. 2. There
 for rough.
Butter-Another jump of a cent in prices took place since our last report.
As high as 21 tc. has been paid in the country. Prices said to be quite above export basis. Dealers here quote market
for finest at 20 c . to a fraction higher. for finest at 20 c . to a fraction higher.
It is suggested that the cause of the high prices in the country is competition among merchants. The output of many
factorics is contracted for by local factorics is contracted for by local
merchants
the price to be regulated from week to week by that ruling on the nearest board. Merchants who have not secured the output of these creameries are trying to break up the system by
bidding up prices on the country boards. Cheese-Local merchants have teen quoting 11 c . to 11 lic ., though 11 sc . has been paid in the country. It is held
here that the market has been bulled, here that the market has been bulled,
and is liable to drop a few notchis it any time. However, it is hard to say. $\underset{\text { Eggs- }- \text { rices very firm. } 1 \text { ickling opera- }}{\text { tions }}$ will soon be completed, but at present there are noue too many to supply the demana. Straib.t-gathered,
wholesale, 16 it.
Potatoes-Merchants quote 65 c . to 68 c . per 90 lbs. for carloads, on track.
Grain-Oats have firmed up, notwith. standing a slight iucrease in stocks in store. Prices are :
41c.
Wheat is practically and 42c. for No. 2. is very dull for local account, hardly
anything being required. No. ern, Manitoba, store, is Shite wintemand for seed 86 c Seeds-Dema the seed has been u
usually good for thenson of the yea Prices are about the same as last quo
tations, at $\$ 14$ to $\$ 16.50$ for alsike tations, at $\$ 14$ to $\$ 16.50$ for alsike
$\$ 14.50$ to $\$ 17$ for red clover, and $\$ 4$ to 814.50 to $\$ 17$
$\$ 6$ for timothy

## Chicago.



## Live Cattle in England.

London.-The first

THE FARMER'S ADVOCATE

## Buffalo. <br> Veals- $\$ 4.50$ to $\$ 6.75$ <br> Hogs-Heavy, $\$ 6.75$ to $\$ 6.90$   

## Cheese Markets

## Madoc, Stirling, 11 11 + c. <br> Stirling, 11 tc . Tweed, highest bid, 10 ge

Tweed, highest bid, 103 c .
Kingston, colored, 11 c .;
cossip.
The auction sule of Shorthorns from the Anoka herd of F. W. Harding,
Waukesha, Wisconsin, on May 9th, was the most successful salo of the breed in America this year so far, the 39 head sold making an average price of $\$ 372.80$.
The highest price for a bull, The highest price for a bull, and the
highest price of the sale, was $\$ 825$ for the roan, Village Sultan, calved April, 1905, sired by Imp. White Sultan, and
 by Royal Worder, sold for $\$ 625$ to A C. Hindekoper, Meadville, Pa., and Sight-
seer, a white two-year-old, by Roy seer, a white two-year-old, by Royal
Wonder, for $\$ 550$ to W. A. Earles, of wisconsin. The highest price for a female was $\$ 775$ for the red four-year-old
Canadian-bred cow, Carrie Canadian-bred cow, Uarrie Nation, pur-
chased from Mr. P. White, Pembrok Chased from Mr. P. White, Pembroke,
Ont., and sired by Imp. Merryman. The second highest price for a female, $\$ 750$,
was realized for the Canadian-bred Nelly was realized for the Canadian-bred Nelly
Buckingham, a roan four-year-old, bred by H. Smith, Exeter, and sired by Imp.
Knuckle Duster. Fifteen other femal Knuckle Duster. Fifteen other females
sold for prices ranging from $\$ 400$ to sold for prices ranging from $\$ 400$ to
$\$ 605$, including the red yearling heifer,
Victoria Victoria of Anoka, which fell to Messrs.
Cargill \& Son, of Cargill, Ont, at $\$ 500$.

## The auction sale, on May 16th, of the herd

 herd of Shorthorns belonging to Mr. GuyBell, Brampton, Ont., was very largely attended, and was ably conducted by Mr
John Smith, M. P. P., who officiate 1 a auctioneer. The cattle were in excellent condition. Bidders were present from
many ontario counties, and the prices tory. The imported three-year-old tuld Cronje 2ne sold for \$465 to T. A. McClure, Meadowvale. Inp. Prince Crick
s'aank, seven years old, went to s.lank, seven years old, went to Geo
Robinson, Castlemore, at $\$ 140$. The younger bulis sold at $\$ 60$ to $\$ 145$, the 8. Barber, Rusemont. The highestpriced female was Imp. Celia, purchase
by D. Currie, Black's Corners, at $\$ 335$ Fairy Girl' went to R. Noble, Norval, at
8140 ; Rose Saxon to I. McMillan, Hills-

## QUESTIONS AND ANSWERS

 Veterinary.
indicate good constitution, good diges-
tion and respiratory powers, good bone tion and respiratory powers, good bone
and
feet and good courage-should be and feet and goord courage-should
able to judge with reasonable certainty,
hut the but the most expert may be deceived.
No person can learn these things from


## between living animals. congenital bundness.

Pony mare foaled in April, and foal
was blind in both eyes. The eyes ap-
pear to be inverted, so that the cye-
pear to he inverted, so that the cye-
eyes were reddish, but now are quite
dark. Can they be successtuly treated
without the services of a veterinarian?
Ans.-The condition is congenital, and
it is very doubtful if it can be success certainly not hy a non-professional man If the eyss were normal, except for the consists in severing the musclis that turn the eye inwards might corrict the fault; but from the symptoms given, I am of the opinion that the whole organ Applications "ill do no good. I would advise you to call your veterinarian in, and if, after an examination, he decides hat treatment will not succeed, I think he foal, as a blind foal has no value, and certainly cannot have an enjoyable
existence.

## Miscellaneous.

## cottonseed meal.

Where and at what price per hundred pounds can I obtain cotton-seed meal for
fecding purposes? A SUBSCRIBER.
$\qquad$ tore. In London, Ont., they are quot-
ny it at about $\$ 32$ per ton, and $\$ 1.70$

## basement horse stable

My horse stables are built in a section
of barn adjoining the hay mow. The
mow is 20 feet by 30 teet.

from the ground. The
bottom is quite dry; in fact, mostly
room. I can have three or fore mow
roomy, well lit stalls underneath.
will
Ans. - Yes, providen there is sufficient
fill of the ground outside for good 'rainage, aftar excavating, and provision
a made for plenty of light and ventilatManure spreader- Hiccock sweet manur." spreader that is tight, so that ". "Wh hold liguid?
2. Would you adise raising the
Hiccock swect corn for ensilage? Hiccock swect corn for ensilage? T. W. A.
 2. Hickox Sugar and Hickox Improved Miscrllaneous: congenital blindness...85t Hickox Inuproved
rocommended by
seofdsmen as pro-

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 and 近duration. The Story of the Old Flag. futtering everywhere ; yet ask the tirst one hundred people you meet to
explain why our flag is as it is, and explain why our flag is as it is, and
the chances are that ninety-nine can not tell you. Ask the next one hundred to sketch out one, or describe pare to be surprised if a single one out of the hundred can do it con rectly.
Now, let us examine our Unio either by itself or in the corner or ensign-to which you can corner of an the better. You find it apparently central part occupied by a prominent red cross ; beneath that, diagonally two other crosses, "saltires," the under one of white, the other laid
upon it of red. Moreover you will find that this smaller red cross does not traverse the tlag regularly
throughout its length. In the first and third sections it occupies thy lower part of the white cross, in the second and fourth the upper. Last hite all about the colored portions Aow, there must be some reason for all these seeming vagariss. What
is it. Again, why is the llag called The "Union Jack"?
The last question we shall answer lirst but to do so we must go very
lar back in the history of our island mother, of the the dinh long ago, in
the are of chiry and romance, as
will be remembered, it was the cus. will be remembercd, it was the cus-

 hus, and at a later date the sol-
 Whin British seamen beean to figure "hin British seamon bepan to firure

land came to the throne as Jame bearing the united crosses Flagge," George and St. Andrew, was devised to be used as an "additional flagge, along with the more distinctive ban-
ners. In this flag. James, the blue ground of the Scotch Jack was retained, the white ground only by a very narrow whide nced about the red St. George cross. In fact, as Cumberland says, © The
union of the flags resulted in the icotchman getting, as he usually does, a smart share of all that was Doing," Durine Co was "Union Jack" disappeneared this new flag, designed with the crosses

White border to St. Patrick ixth of red of St. George.
Broad white half of red of st. George. In the heraldic interpretation of olors, it may be interesting to note red signifies courage; white, purity
and blue, truth. The white eferred to is due to a rule in aldry that color must not touch color, while the added breadth of the was given to permit of a larger proportion of the original white ground To touch upon all the ensigns (in ures), would require a treatise. We have conlined ourselves wholly to the
Union Jack wherever Union Jack, wherever it floats the
emblem of the British Constitution. (C) Coss of St. Patrick; (D)
if sit corge and st. Andrew, and We regret having been obliged to
 to give added interest in regard to Our national emblem, of which it has
been well said: "Of all been well said: "Of all the national
flags, there is none that bears its folds so interesting a story upon has its history so plainly written on its parts and colorings, as has our
lirilish Union

Unloved Children.

$\qquad$ The atoned for with wealth or culture.
Thents who simply supply their children with every luxury and give them
a modern education, a modern education, meantime withhold-
ing from them the best heart, and failing to teach by example kindness and consideration, are sowing a harvest that may be reaped in tears and
bitterness.
Better be the children of humble people where be the children of
love and honesty and industry are taught by constant example, than the inheritors of wealth and
and attluence. which are linked with and

The Cricket. Little inmate, full of mirth Chirping on my kitchen hearth Wheresoe'er be thine abode, Pay me for thy warm retreat With a song more soft and sweet. In return thou shalt receive

Though in voice and shape they Thou surpassest, happier fa Happiest grasshoppers that are Theirs is but a summer song, Unine endures the winter long, Melody throughout the year.

Neither night nor dawn of day ruts a period to thy play
Sing, then-and extend the Sing, then-and extend the span
Far beyond the date of man Wretched man whose years are spent In repining discontent,
Lives not, aged though Lives not, aged though he be,
Half a span, compared with thee. -Cowper.

Fix Your Eye on Hudson's Bay
Mr. Aubrey Fullerton's timely conribution in this issue, we hope, will re-awaken interest in the vast inland sea discovered so long ago by the British navigator, Henry Hudson. To Canadians, who ought to be more interested therein than any other people, it is but little more than a big spot on the map, and the nighty land surrounding the bay is yet an unknown quantity. But the page in our geographies will soon oom larger than it does to-day, and lemand a more accurate study. Especially should the schools of Ontario and Quebec be taking it up. inces skint southern ine running about midway Bay. A Mattawa and Moose rivers between frontier between the worms the and the Fast Main River north, is the boundary between Quy bec and Ungara. The Ontario coast line runs upward on the west side of James' Bay to the mouth of the Al bany River, north of which again lies the great Keewatin territory. No one knows the potentialties in fisherles of the Hay itself, nor of the land southward in timber, minerals and goil. With railway mated fations raping comvia far-fom the Provincial capital, eople shoud Temiskaming, Ontario ed in this areat profoundly interestterritory ateat inland sea and the ere long bunt which will also, rains on the ang transcontinental Grand Trunk Pacifin section of the activity the racinc, quickening into North.

The Great Lone Sea of the North.

A blank space on the map, in the very heart of Canada, is all that Hudson's Bay has signified hither-oo- great, empty waste of north-
ern sea, 1,000 miles from south to north, and 600 miles at its widest. For iwo centuries the traders and whalers have been lorde of that im-
mense inland water, and the country IITense inland water, and the country
surrounding it has not been so much as ssen by any others, except by an occasional explorer, or a few ambitious sportsmen. Nobly shaped, and
apparently well ploced its sizo and position seem to have served no useful purpose, for though large, it is
isolated, and though there might be isolated, and though there mizht be
resources of both sea and land they resources of both sea and land, they
have not been accessible. And so it has been left to the fur-traders and the whale-hunters.
However un:mportant the northern
sea may have been to the rest of the sea may have been to the rest of the
world, it has been a nursery of fortunces to these few adventurers. That ancient, and honorable concern, the Mudson's Bay Company, has traded
into its regions since 1670 , and is still in business to-day the greatest
trading corporation in the warld trading corporation in the world.
7 he whalers came much later, having made regular voyages thither during
only the past sixty years. fisheries, however, are very profitable, a consigninent of Hudson's Bay
whalebone having sold last year in Whalebone having sold last year in
Scotland for $\$ 12,000$ a ton. great lone sea of the north has given up its treasures to these and to none thers, for there were none others. But now Hudson's Bay has ${ }^{\text {\& new }}$
importance. Its place on the niap is being studied, and plans are lay ing that will, if carried out, fill the great white blank with marks of enterprise. A proor of this is the
fact that within the past two years there has been considerable discussio as to the rearrangement of Provin cial boundaries, so that Manitoba,
like the two older Provinces east, Inke the two older Provinces east,
should have a frontage on Hudson's Bay. This goes to show that access to the great lone sea, so long ig
nored, is now in demand. What makes it so is the fact that cern the question of transportationthe moving of Canada's great wheat crops in the near future. Some day
there will almost certainly be lines of railway from the heart of the Canadian West to the Hudson's Bay
coast. One company has already coast. One company has already
announced its deflinite purpose to exannounced its adeinite purpose to ex-
tend its lines in that direction, and
other similar projects ane afoot ant Churchill, half way up the coast,
will, probably, be the first will, probably, be the first terminus,
These railways will build to Hudon's Bey for a very evident and very
businesslike reason namely businesslike reason, namely, that,
from it magniticent harbors there
will be t will be a new and shorter route to
Europe, by which the West will be placed in quicker connection with the
world's wheat markets.
 son's Bay, 3,626 miles; and Duluth,

 miles. It is pointed out
the saving of distance to
by rail, before the hy rail, before the seaboard is rach
ed, would be of even more impored, would be of even more impor-
ance than the net gain in distance on ance than the net gain in dista
the entire route. A half-cent the entire route. saved in this way, is clainsa, be
terest to firgure this and is of in terest to figure this up and see what
it amounts to. On the whole hiil it amount mean a saving of thin
it would
cents on each bushel; and when cents on each bushel; and when
shall have 60,000 ,ooo bush .ls port, as we shall have very
this will make a tolal savin $\$ 9,000,000$. evident that a Hudson's Isay, rout if actually openeel
factor in national
money and
money and time.
All this, howere Aht this, however. depends upon
whether or not Huason's Bay can la well-situated it may be, the fact re
mains that it is a northern sea, and mo natives. The Canadian Gover for a large part of the year is ice ment will now see that justice to all the Government has been sending ex- To take care of this great lone
peditions to ascertain, among orre peditions to ascertain, among other country in the interests of canala,
things, for how many months navi- the Mounted gation is feasible. The mavi- the Mounted police were called upon " Neptune," a converted steamer ship, was the first of these parties, who have done so much to preser
in 1903 , and was relieved in 1903, and was relieved the next with the expedition of 1963, and es year by the "Arctic." Thus far the tablished a police post, whose comson's Bay can be safely navigated for manding officer has since been named


A Party of Hudson's Bay Eskimos.
at least a third of the year, from the police are now located at several
first of July till late in October. The itmportant points and are holdin
Bay Bay itself is always open, and, while the Hudson's Bay country in readi the harbors are frozen over from ness for the first advance of industry
November to June, the danger in the and civilizal Bay is due rather to drifting ice. Not only as a short-cut to Europe storms and foes ing frequently met, however, is Hudson's Bay of valuy The expeditions to Hudson's. Bay $\begin{aligned} & \text { Its waters are the home, not only of } \\ & \text { the bow-head whale, worth } \$ 10.0014\end{aligned}$
have had a threefold purpose investigate a the conditions of ldviga each, but of the seal, and, including tion was one; another was to of edible fish. These minor fishories gather scientific information, at sea have never these mmor fishories


A Hudson's Bay Port.


Canada, and the great sea that run into it will, in all likelihood, becon. There are few better illustrations What the future possibly has in sto

## Souls are Built as Temples are

 Suls are built as temples are-Sunken deep, unseen, unknown, ies the sure foundation stone. hen the courses framed to bear
ift the cloisters pillared Last of all the airy Soaring heavenward, higher and higher Souls are built us temples areInch by inch in gradual rise
Mount the layered masorise Mount the layered masonries. Kings arise and pass away day Laborcrs vanish one by one,
Still the temple is not done, Still the temple is not done Souls are buit as temples are
Here a cnrving rich There a carving rich and quaint Here a depp-hued pane to tell Sacred truth or miracle:
Every little helps the much,
Fivery careful, carel.ss
Adds Adery careful, carel-ss thuch
Adds a charm or loaves a scar
Souls are lielt Souls are built as temples are
Based on truth's eternal sure and steadfast, without flaw. Through the sunshine, through Up and on the building goes:
Every fair thing finds its place Every fair thing finds its place
Fivery hard thing lends a grace

## Permanent Residents.

Questions are often dangerou some visitors to a jailty in whic by their injudicious curiosity is thus described by Tit-bits The party was escorted by the chic warden. They came, in time, to a
room where three women were sew Wear me," one of the visitors
whispered, "what vicious-looking Whispered, "what vicious-looking
creatures : Pray, what are they I. Because they have no other home
This is our sitting-room, and these This is our sitting-room, and these
are my wre and two daughters.,
blandly responded the chice warden

## Our Society Pin.

avo, and am pleased with it. The asign is both dainty and it. Thety Nipissing, Ont. NCRES HUNT,
 Herary socicty pin. Will in to
FIIASB PANNABECKER

## News of the Day.

British and Foreign

- mant of Mt. Vesonvises fints hy shoonting to its accomplishMorenise. The lesder of the long re-
hellion in Cimman Southwest Africa,
wass captured
 Canadian
at Cuebec this sam
N1. Chuster A. Martin, Rhodes Martin, Rhodes
ohn, N. B., has Mhn, N. B., has
Momorial prizo
vernment of On-
taking steps to-
part of the old is taking
part
trounds
y using

MAY 24, 1906
The Marathon Race.
THE FARMER'S ADVOCATE

## The Government will award

 minimum grant of $\$ 500$ to Mr. Wil liam Sherring, the Hamilton, Ontlirakeman who won thic Man trakeman who won the Maratho
race at Athens. The fact that M Sherring was his own wainer, and
went to Gireece paying all his expenses himsulf, giv mination that will probably Inlore actront io Mr. Sherring
through life than his me. through lite than his mere ability to
win such a race forms of achievement than the at? Ietcis ; nevertheless, such feats as the
winning of the Marathon race by MD
Sherring of 7


The
to Athens was run in, Omitation of the thight of the race, Athens, Greece,
then who brought to. Athens the news of the victory of Miltiades over the Persians
at Marathon. This first runner dropped dead when he had in the afternoon. All along the road from fatigue. He hraced us and there wore masses of spectators, who as he neared the finish. When he found himself well ahain shouted encouraging words to the Sherring dropped into a walk, giv-
Cireck competitors. Along the road- ing himself great real Way there were ahout 150,000 per- spurt. Whenever he saw his final sons, While the stadium contained ponents approaching he resumed runatcout to, oon. It was a remarkable ning, and in this manner tired them
hat who always were a good distance hind him. Sherring joked and laugl turned the salutes of the cheering crowds.

- A cannon shot announced the ar rival of the first runner with.n fou
kilometres of the stadium, and interest now was intense. The scene from an eminence overlooking Athens
was wonderful. The Marathon was wonderful. The Marathon road,
winding like a white ribbon for fifteen winding like a white ribbon for fifteen
miles, until it was lost around the foot of Mount Pentelicus, was fringed with troops and crowds of sightseers, the Acropolis shining in the
sun, and the sea glistening in the sun, and the sea glistening in the
background, forming a glorious spectacle. The crescendo of cheers alon the road grew into roars as, at
$5.50 \mathrm{p} . \mathrm{m}$., a cavalry officer, by a single runner, was seen ap proaching. ring, smiling gates of the stadium, Sher not at all distressed, was foined an Crown Prince Constantine, who rai alongside until he ended his long journey in front of King George and
Queen Olga. The king handed Sher Queen Olga. The king handed Sher
ring a bouquet, while ladies showered flowers and gifts upon him. There was great cheering and enthusiasm, although the Greeks evidently were
disappointed. "William Sherring was born in Ham1878, and he has on September 19, 1878, and he has always made that tall, and is rather slim of build 7 in. in running condition weighs about at Bartonville in the fall was made when he finished fourth in a five-mile ruce. In the six-mile across-country he finished first $\mathbf{N}$. Yi, in November, starters. He next woit thirty-five ton 'Herald' ' road race ine Hamilnew hour $53 \frac{1}{2}$ minutes, establishing a miles. In the the distance- 19 굴 second in the Marowhing year he ran ton, his time being 2 hace at Bosutes 31 seconds. In the same year at Milton, he establ shed a new Canabeing 56 minutes 10 miles, his time has won numerous 20 seconds. He

Children's Corner.
The Young Pioneers.
It six years of ounger, tor a playmat.

## Margie's Charm.

Margie that it that makes everybody love hargie Fitch so?" szid Jennie Howard, the window after having seen the elegant
Mrs. Dayton, with her by her side, wrace her little daughter take Margie in her handsome carriage, and dash off again down street. "She isn't pretty, nor stylish. Now, what is
it, do you suppose? ". of
ir "I think 1 know the charm. Perhaps
the you would better set yoursulf you would better set charm. Perhaps
this week to discover it." this week to discover it," answered her mother, busily putting tie siting-room Co rights.
The next day at school Jonnie followed her like a detective. The first thing she
noticerd was Margie's kindinss tollow noticed was Margie's kindness to Alice
others at their gay sports. Margie and, after a little urging the the merry group, and was soon running ike a deer and laughing with the rest.
When school was callod, Margie rose on the teacher's desk as she laid a and smiled a cheery "Good-morning nd received an appreciative smile in re
About
studying
tudying, an hour later, while busily ear. Looking abouthed she saw caught her scholar sitting with head bent forward egrarding her slate with a hopeless ex permission to leave Margie's hand for granted, as were all like requests, for hey were rare, and the teacher knew
ley were never of a triffing nature. "What is the matter, Alice?" "What is the matter, Alice? ". ${ }^{\text {asked }}$
argie, sitting down beside her? do one of these examples
do he raplioul, dashing away, Marpie took the slate, read
Wer an example, and soon hou it down correctly. With
a little help at the wight Muce, the others were congrateful face to girl lifted a
thankul her to as she (rom their way home, a


 cir, , Ih, I Said Margour pardon,
with confe, coveral With confusion, as coverad
turne-d the cane to re.
timl ifraid I have him. "I'in afraid I have hort you,
sir,:" And she looted up,
with frank solicitude in
"Not at all, my dear," he responded heer. i: Go on with your pley maile happy. I am proud to dofl my hat to
so polite a young lady," which he did with a stately bow, and passed on.
"How did vou dare? I should been too much frightened I should have been too much frightened to have said
thing." exclaimed one of the girls. "So should I," chorused the others. There was a social in the churoh par-
lors that week. Jennie still hovered near Margie, learning a sweet lesso every day from her. As they sat turn-
ing the leaves of a hymn book, finding thir favorite songs, a lady paused to and proffered her chair, which was ac cepted with a pleased grace, after Margie
had insisted upon it. had insisted upon tw. room, where the young people were pre paring for games. Just then Margie espied a solitary figure sitting in
corner. corner. This was the deacon's wife,
who was somewhat deaf. After a hand shake and a sentence through the ear trumpet people usually left her to her
self, as the majority of per self, as the majority of people mumble
or speak top rapidly to be readily unor speak too rapidly to be readily un
derstood through the trumpet. Margie crossed the room to her and taking the trumpet in her hand, being her affliction more conspicuons, she sa and chatted half an hour away, amusing the dear old lady by repeating the
pleasantries and iokes that were fying pleasantries and jokes that were flying
from lip to lip of those around them. - You have been a great comfort me, my bonnie lass,", said the old lady patting the hand that held the trumpet Now, go and play with the rest.
thank you, my dear, for your thoughtful ness to an old woman like me." An Margie went away quite happy. As soo
as she appeared several voices exclaimed as she appeared several voices exclaimed
(") Oh, here comes Margie Fitch! Le Oh, here comes Margie Fitch! Le
her be Rachel. Come Margie and b blimdolded."'
Margie laughingly submitted, and
moment later noment later was giving
ively chase around the ring
ways chase around the ring. She a
ways put her whole heurt into every
thing she did thing she did.
${ }^{-} I_{1}$ think
I harm," said Jennie found out Margie hext morning. "I
nother.
bliging. I think she must carry a

The Tempest.
We were crowded in the cabin,
Not a soul would dare to sle And a storm was on the deep.

Tis a fearful thing in "inter
And to hear the ratuling trum thund
So we shuddered there in si ence, While the hungry sea was roaring, And the breakers talked with leatl s thus we sat in darkness Each one busy $\qquad$

Hut his little daughter whismerelt As she took his icy hand
Isn't GOD upon the ocean

THE FARMER'S ADVOCATE
The Magic Letter.
There was a little maid

## Whose every thought and

.. Ilways think." ". I with "
say,"
I like,
rom morn to il want,", "I will " 1 " was her burden still.
Her schoolmates would not play with her parents tried in vain To teach her better, and one day Help me, o fairies! ", he pain, Help me, o fairies!" he besoug
" I'm worn to just a thread ; IJo save nue from this dreadful child.

The fairies heard and heeded, too
A Nova Scotian Cousin. intended to write to you before, by
did Mot know the address until
kit did . not know the address until
found ...The Farmer's Advocate," which
Had the prize essays. I like the essay very much, but I wouldn't like to try
one muschli, berause $I$ am not very cood in that line. I enjoy the Children's Corner" very much, and am always
tlad when it is time for a new number to come in, so 1 can read it. I am very Iond of reading, and we take a good
many magazines and papers. I have a many magazines and papers. have read them all. We have a very nice "school ibrary," and get books every fortnight. go regularly. 1 was thirteen years old the thirty-first of March. $\begin{gathered}\text { VIOLET } \\ \text { F. REID. }\end{gathered}$
Windsor, N. S.

They caught poor "I " away
And nursed him into health agai
Through many an anxious day
Through many an anxious day;
And in his place they deftly slipped
And in his place they deftly slipped
A broader, stronger letter.

- The more she
"The more she uses that," they sai
With roguish smiles, ". The better '
The little maiden wept and sulked
At first, and would not speak,
But she grew tired of being dunnt,
And so, within a week,
She used the substitute, and 10
Her playmates crowded
Her parents smiled, and all were pl as
She grew to use it steadily
She grew to use it steadily
And liked it more and mor
t came to fill
It came to fill a larger place
And each year found the little maid
More kind
More kind and swect and true.
What was the magic lattor's name


## Esther Ried

This young lady was oftentimes dis puraged, as she was sometimes over taxed with work, but after becoming a able companion of her picus and honor stead of being unkind and nod and in pathetic, she became very self-denying others' sake, and was greatly liked by Al who knew her. I like this story be cause it shows what influence people'
characters have upon others, haracters have upon others, and so
should remind us to be more careful ur character on others' account.
IDA WHITLANE (age 13).

## The Queen in Danger

## here was a man who had a <br> name was Matthew Mears

The Quiet Hour.
The Power of Christian Fel lowship.
I thank my God upon all my remem
brance of you, always in every brance of you, always in every supplic,
tion of mine on behali of you all. ing my supplication with joy, for yaur fellowship in furtherance of the gospel
from the first day until now, from the first day until now; being con-
fident of this very thing, that He whluch began a good work in you will it until the day of Jesus Christ: as it is right for me to be thus minde
on behalf of jou all, because I have in my heart.-Phill. i.: 3,7 (R. V) In the margin, a dilferent rendering
given for the last clause, viz have me in your heart," which complete "an measure its power in the making of
character ? Fellowship in its highest
form-which surely is Christian fellow ship-is a never-failing spring of joy and
thankfulness.
From it we draw in spiration, courage and strength for the the the of life. Without friends, on whom would be sad, and dreary, beyond iff question. Our souls are continuall drawing out to the souls of others and can never the them the strength which ty. Union is strencth own personal eether and they will be far stronger
than the same number of men workin singly. In spiritual things, the more a
man gives away the more he has, so the
people who give freely to others of their beople who give freely to others of their
store of spiritual strength find themact. Let us examine this wonderful talis-
man of ". fellowship ". which can trans-
figure and glorify existiche fant of and glowship" which can trans-
fariy existence, which can
make the berily make the heart sing for , which in the
midst of sordid surrounding midst of sordid surrourdings, and with-
out which no one can be really hapy though he be clothed with purple aud
fine fine linen ardf fare sumptuously every day. Most people would be delighted to
learn an easy and sure way of becoming learn an easy and sure way of becoming
rich, though-in theory-they are quite
read ready to own that happiness cannot we happiness is an money. The desire for Himself in every human heart, and He Has not given the instinct without open-
ng the way of satifuction brightest, syeetert hife, and see if the he times of high and holy fellowship Him who sprits akin to yours, or with understands the thoughts which cannot
$\qquad$
That my heart hath from Thee
All real, aud full, and marvellous alfec-
thrills gloriously the mighty glow
1 don't understand how anyone whos
ancons heaven at all can put the
"nuld rathere thay here if entrance of unt
hat new hite thromt sepparation from our
$\qquad$

the little maiden,
And we spoke in better cheer,
nd we anchored sale in harbor

A Quebec Cousin.
A Quebec Cousin.

| aro han earh othough materially they | mpt to go directly against |
| :---: | :---: |
| (iften enoueh enacted in This tragedy is | ".st, holiest instinct. To deliberately |
| can ofun toe mare really .in in touch.. | "it the name of a departed friend |
| frophe whin they are not | , if one's daily prayers is not |
| ,mph in holly to irritate us with littlo. | to pray for him. God reads |
| urismis and uncongenial hatits. | 117 tered desires, He does not need |
| Those why are living in the milst of | A prayer that is made |
| are | "rhout the desire of the hear |
| Thuse who appear to be in far mor | Theaningless |
| , It is never | who of a faithful, loyal heart for |
| to judpe by outward appearance, for | "ho, though out of sight, are certainly |
| discovered that the only verson who has | not out of mind, is real prayer, and |
|  | e who are still very members |
| ${ }^{\text {I }}$ think but deep en | us in the mystical body of Christ. |
| You are wont to a | Death was never intended to |
|  | drier between |
| you, too, | dead but living, |
| time response your soul seeks many a | prayer which a loving child of God |
| rcing its fine | breathes into |
|  |  |



0




ceive ourselves, we can never we may deceive ${ }^{\text {o }}$
into thinking that words into thinking that words without love are
real prayer, neither can He fail to
recognize real prayer if love without scart, will be a clog and weight to the words be held up longingly to Him. veil are bound with the living, throb-
ting cord of love to the Heart of God,

What silences we keep year after year
With those who are most near to
We live beside each other day by day, The say, sweet word that lies just it our reach
Then out of sight and out of reach they
$\qquad$
These ${ }^{\text {g }}$

$$
\begin{aligned}
& \text { That once we might have said, and they } \\
& \text { have heard. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { have heard. } \\
& \text { For weak and poor the love that we e } \\
& \text { oressed }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Now seems beside the vast sweet } \\
& \text { sonfersed, } \\
& \text { slight the deeds we did to t } \\
& \text { undone, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { slight the deeds we did to } \\
& \text { Andone, } \\
& \text { andall the service spent to tre }
\end{aligned}
$$

$$
\begin{aligned}
& \text { That deed, } \begin{array}{c}
\text { could } \\
\text { need }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \text { could have overflowed the simplo } \\
& \text { need. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { This is the cruel cross of life, to be } \\
& \text { Full visioned only when the ministry }
\end{aligned}
$$

About the House.
Hot Weather Diet

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and
and

## When selecting a Watch remember that The Watch-word is $\mathfrak{E l i g i n}$

## It is written on the dials and engraved <br> Fvery Elsin wath best watches

 ELOIN MATIONAL WATOH CO., EIgIn, III.

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If so, you want the flour that will give you the best results with the least worry. An easy flour to use is a wonderful help to the busy housekeeper. "Five Roses" Flour is easy to use, because it is always uniform There is no waste of time, flour, or money no spoiled baking when you use "Five
Roses.
LAKE OF THE WOODS milling company


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raise money

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 can have aul bucture you wisl to send printed on the souvenime. Fill out tha following hank, and we will show you how easy they can be secureal:
The Wm. Weld Co.. Lttr, London, can:
Name
Denomininatio
Reinarks.

NOTCE When wmiting advertisers please mention the Farmer's Advocate.



Empire Day Contributions. Cheese Sandwich.-1Rn, the wolk of 1
$\qquad$
 ther cheese recipws will he given wat. Floor l'aint-You can paint hardwood
loors thite successfully, but the paint

 I hope some of the Chatterurs will tell toget in too much oil, add some lime
us something about conning fruit in the paste. Mix with any color not affected
ins

$\qquad$
$\qquad$


Condenged advortisements will be ingertrad









 B Mratos, Bransiord Res...Ont.
















 W. Krouse, Gueph. $\underset{\substack{\text { and } \\ \text { dollars }}}{\mathrm{W}^{\mathrm{H}}}$


The Aster. If you are wise, you probably have
your Asters in long ago, as andised in
the Flower department away last
winter. If you are wiser still, you will winter. If you are wiser still, you will ane made two or three successive sow-
ings, and will have transplanted the carlier ones two or three times in ordor
to develop hardy, sturdy plants. however, you have neglected to put in
any Asters at all, you may still sow some out of doors, and with care you will have a good showing of bloom in
late September and early October. The best Aster bed is a deep one of
pure woods earth : but if this canne of rure woods earth; but if this cannot be
got conveniently, a sandy loam well en. riched with very old malure is a very
good substitute. Sprin'le ashes freely into the bed when raking it, and give
top-dressings from time to time during


 disike the appenrance of thes., stir ul
the soil carefuly with a small karden

## Frogs and Toads.

| Fross and Toads. | mersition has rimen |
| :---: | :---: |
| In your issue of Apriil 26 there was an | was supposed to |
| ${ }^{4}$ Birds Hatch | shatkespeare hay |
| 矿." I was very much interested in | ingredient in the |
| frog and a tond? Froys are fast dis-appearing in this part of the country, $t$ toads are |  |
|  | ntris |
| to know how the toads are propagated. | nder cold |
| Do they spawn like frogs,born?Sometimes in in | and |
|  | fi |
| shoal of tiny litte things, and it to walk without treadin, ond the | di is not only one |
| you can kive mie the information, I sh.11 | but one of the |
|  |  |
| he very pleas did and much omiliged. York Co., ont. MRS. J. RUSH. |  |
| Frogs nud tords are both batrachians,a branch of the animal world which is |  |
|  | his marvellous tonzue. meriads if in- |
| $\begin{aligned} & \text { a branch of t } \\ & \text { provided in it } \\ & \text { with a breath } \end{aligned}$ |  |
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| Sometimes three or four fout in linenth, |  |
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| When the uge is hatcled, the crature |  |
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| above, a kill like bre,thing arparatus(brathehiar) on each side of its head, it |  |
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| oth in its appedrance and construction.little by little the branchitr disappear, |  |
|  |  |  |  |
| being drawn into a cavity of the chest, |  |
|  |  |
|  | Comfort. |



$\qquad$ Asters are peculiarly susceptible to the
ravages of noth insect and fungous pests Keep a sharp lookout for the black
heetle, and if even one should appear kill t. If numbers of them surprise you of kerosene, or spray with Paris green For funrous disease spray with copper
dine (weak Bordeaux mixture). fine (weak Bordeaux mixture).
However, on account of their great heauty, and their long Asters are well worth the time.
ferhaps the mest leautiful Asters of

A Comfort.

## Fresh <br> Clear <br> Faces


PRINOESS COMPLEXION PURIFIER
 superflous

 GRAHAM DERMATOLOGICAL INSTITUTE
Dept. F. 502 Church St.. Toronto. Estab. 1892.


How to Destroy Ants. annoyed by two or three colonies spicuous places on the lawns. Hons. Hot
water and various other alleged remedi Water and various other alleged remedipg
svemed not to discourage these pests in the least. Finally, 1 invented a scheme. Remembering the great fondness ants
have for sweets. I filled a teacup half
full of cranulated uyar moistened iull of granulated sugar; moistened and
stirred it until it became a thick paste, to which I added a tenspoonful of Paris
ereen. 1 then placed portions of the and in a wery hew noments the thousands dwouring "hat they apparently con
siderat a, rame dwlicacy. But their gree ome collunics hy this simple means wer
II ar. the Ostrich Feather, Comet a have long loose petales, all of whit bery beautifui
 "Ir purphe kinds, the others are so much
prectier. Purity and Daybreak are ver.
fine also, but stiffer, the petals beins "gularly incurved instead of loose an
Nary. The quilled varieties are scarcoll "ary. The quilled valieties are scarcely
(1) he recommended.
In setting out Asters, it is well In setting out Asters, it is well th
motice the height to which the differen hinhs grow. The branching variotic
Somples and American), also the Purit, (Semple's and American), also the Purity
and naybreak, grow to a height of tw,
feet, hence should te. placed at the hack Tect, hence should 1 e. placed at the hach Machd next to these, then the Comete
und last of all the dwarf varieties, whit .

$\|$

1) routh. Rabbits, and Disaster.
While it. is broadly true that the

could proftably, Please inform as so
as mossibie as to to the best and
when way or foeding waterod cattee. C. H. H.

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 cent. ; carrots, 88.6 per cent., and sugar
beets, 86.5 per cent. of moisture. Man-
gels and turnips are thus practically the
same in point of succulence. mangels same in point of succulence. mangels
being just a trifle more watery than
turnips. We trave never asery turnips. We have nevere watery than
difference in the laxative propered any difference in the laxative properties of
these two roots. The feedfng value is
quite similar. quito similaor. Mhe feedfing value is
better for mangels are rather
stock, having ming cows and growing better for miliking cows and grawing
stock, having a little more protein and
ash. Many stockmen, however, espefia,
ly Scotchmen, are pritial to turnips tor
ordinary stock-feeding. Sugar beets are
better than mangels, but not enough ordinary stock-feeding. Sugar beets are
better than mangels, but not enough
hetter to pay for extra cost of raising
them, and smaller yield. Wing wis. them, and smaller yield. Water cons
stantly before the stock does not take.
the place of roote storn the place of roots. If our correspondent
has previously veen in the helo ing his stock out into a cold of turnto drink only once a day, we can under-
stand why keeping them stand why keeping them in a stable and
having water before them will result in having water before them will result if
their drinking more water, and also be
ing somewhat in ing somewhat liooser water, and also be
posure to cold has a cols. Ex.
tendency anstipating posure to cold has a constipating
tendency. We would advise growing
enough roots to allow mater enough roots to allow a mature cow one
to two pecks per day, if receiving silage, and two to four pecks, if not getting
silage.

## Veterinary

## warts.

WARTS.
I have a young colt which is badly
bothered with warts.
coveret wis nose ia
What would be best from eating.
them?
Ans.-If the warts SUBSCRIBER. them off with scissors. If enecks, ciio
with castor oil every din, rub well
does not remove them, dress the if this
daily with butter of antimon once
werte a cather.
Wite scours in calve
My calves mostly die when three days
losing theirs the same my neightors are strong when born, and drink they are day and next morning all right. Arst
all right in the they right in bowels the first day, then worse, till it comes through thay getting water, and has very bad smell. A. Rem like Ans.-This is a contagious disease
called white
scours. called white scours. The germs that
cause it gain entran:e to the cause it gain entrance to germs that
through the torn and new-born calf's navel string. Authoritie are not perfectly clear regarding the it, but prevention or germs that cause known. The name white scours cure yet misleading, for the white scours is rather
towels isharge fromer ъowels is not always white from the tom is severe diarrhoca, with wistic sympcolored and foul discharge. White scours
nflects and ant nflects calves from a few hours to a few
days old, but days old, but some cases live for days,
and even weeks,
wet and eventually die of pneumonia. The illness,
disease is often coincider break of contacious abortion. with out.
germs the the presence of moisture. Fing and
iffected calves, we mores of the When any calves, we hold out for hope cows calve, in an uninficted, clean calve, have them
fore parturition, and a week beof fresh bedding. and use an abundance
ceived ceived on fresh, clean cald should be re-
navel navel cord 1 to 2 inches below the
navel with a disinfected cord fict the navel string immediately and disini:ng under it a ding immediately by hold-
per-ce it. solution oftaining a fifteen-per-ce.t. solution of frmsling or a fiften-
per-cent. solution of per-cent. solution of carbolic arid.
peat until the navel
The formalin treat all shrivels up. me ided to us by a veterinarian recomsays he has found it very satian, who
Try it, and report Try it, and report reselts. sitisfactory. The ony
treat ment we can recommend, if only
these these precautions recommend, if only
are observed after
disease appears, disease appears, is a dose conserved the dram; castor oil, tincture of catechu,

THE FARMER'S ADVOCATE


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The largest open-air 1
show in Canada.
MAY 31, JUNE I and 2.
\$3,000 IN PRIZES.
Special Railload Rates.
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G. E. GOLDIE, Secretary.

MVEMTEE II TIIE IDVOBATE

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DR. CHASE'S KIDMEY-LIVER PILLS


ARREST IT - \$50.00 REWARD


100 Men Wanted


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WEDDING $\begin{gathered}\text { stationery. } \\ \text { are interested inng ladies who } \\ \text { Yot }\end{gathered}$ nit tor our booklet. Free for the asking.


## Send For This Book



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This is the only thoroaghly equippod Institution de.
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 ARE STILL LEADING THE VAN




Stock for sale. Mated trios a spocilatty. EsEs $\$ 3$ for 15 or $\$ 5$ for 30 .
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## HORSE OWNERGETUS CAUSTIIC CAUSTIC  <br> Farm Lands

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We have a number of well-improved farm lunds for sale, at prices rangto \$35.00 per acre.

We have the exclusive agency of over 40,000 acres of land west o Eagle Lake and South Battleford district. Some splendid bargains in city property.
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REGINA, SASK.
The Repository

GOSSIP.

Oon. Auction Sales of
 upocial Bales of Thoroughbred Stook conduote
Consignmente solicitited. Oorroenpondence
will rooeive prompt attontion. Thin is the beat market in Caneda for eithor
buyer or teller. Nearly two hundred horeen tot The Galt Horse Show has worthily won the reputation of being one of the
liest in the Dominion for a first-rate display of roadsters, sadulers, carriage
horses and himp he show this year are May 31 st and June

## A WELL-KNOWM

BAMDA MAN SPEAKS
A Well-known J. P. is Cured of Kidney Dodd'e kidne standing by Dodd's kidney pilla. Banda, Ont., May 21st.-(Special.)-
There is no one more widely highly respected in this section of the
country than $W_{m}$. the statement he makes below concerning weight and carries conviction will bears sufferer from kidney a year I was a says. "Always in pain, at times Bell
agony would become the was practically unable to attend to any of my duties. I doctored with several to get cured, but without success. means
last It ney Pills a trial. I have the greatest
pleasure in stating that the pleasure in stating that they drove
away the pains entirely, and restored away the pains entirely, and restored me
to my old-time health and strength. I
am sure I owe this entirely to Dodd's
Kidney Pills.".

## Western Canada Land Co.,

 HEAD OFFICE: 38 NINTH STREET, BRANDON, MAN Investors, buy a block now: seeding operations over, buyers are comingfrom all parts of the world. Two Hundmed
up, ranging in price from four to ten per acre. mproved Farms.
Brandon City Property.
Beautiful Section of Land one mile from Berrisford; well im-
ved; CHEAP. Choice Frult Lands, Southern Okanagan Valley, British Columbia.
J. B. HOGATE'S

Stires, Clydes, Percherons, Haclmeys and Spanish Jachs.
Clydesdales, one 8hire and two 3-yearso Hackneys, which I will sell at a bargain
before the season before the season opens, to make room for
my next shipment. Stables at Weston, Ont.
J. B. HOGATE,

GRAHAM BROS.
"Cairnbrogie," CLAREMONT,
HACKNEYS and CLYDESDALES Established 30 years, and winners at all large shows n Canada and United States. Best of stock always
on hand for sale. New importation of Royal winner just arrived.

## Graham \& Renfrew's

 CLYDESDALES and HACKNEYSour Clydes now on hand are all prizewinners, their breeding is gilt olasi lot. We also have fow high-steppers and carriage horingly high Yonge Etreet cars pass the door every hours. 'Rono carriage hors GRAHAM \& RENFREW, BEDFORD PARK, ONT.

hClydesdales French Coachers, Imp.


 ROBT. NESS \& SON, Howic

HACKNEYS and CLYDESDALES


THICK, SWOLLEN GLANDS

T. H. HASSARD, Millbrook, On

ROUTE BILLS
 engraviespatch, Up todat
of havifins of different breeds
of horses on hand. Mall Orders solicited The London Printing \& Lith
Co., Lid., London, Ont.

- IE IT B a in To avoid inbreeding. I will sell the best (imp stocker. Very kentle. Also the grand Jorse
Stook Bull Pall of Glen Rouge No. bivill.
good stock buil and very sure. good stock buil and very sur
E. W. BROOKS. Tren
E. W. BROOKS. Trent Valle

Noomer bind horoo- ror soand
Adveritiss in the Alviracte

## QUESTIONS AND ANSWER

 Veterinary
egg, and a discharye coming from it
a white color. Blistered it with a lin
ment, but

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Brooklin, Ont.
JOHN DRYDEN \& SON,

## BROXWOOD HEREFORDS

A few choice bull calves from my
R. J. PENHALL, NOBER P. O., ONT. IVE NICE, SMOOTH HEREFORD BULLS for sale. Two about 16 months and three from 8 to 10
months old. Priced right to do business. W. BENNETT, Rox 429 CHE SUMNYSIDE MEREFORDS
 FOREST VIEW FARM HEREFORDS

 sond withus. We ean paleas you good, corre
J. A.LOYERING. Coldwater P.O. and Ste Aberdeen-Angus lbull for sale, Black Din

A. G. SPAFFORD, Compton, Que.

Four Aberdeen-Angus Bulls - headers herd


QUESTIONS AND ANSWERS Miscellaneous.


| Ans-Wrte W. H. Knicht, Secretary 1il., for forms and terms. delinouent pig-dealers. |
| :---: |

Tuttle's Elixir

 $\$ 100$ Rewara for failure, where we say it
will cure, has never been
doimed







## Like a Growhar





Here's. Two Durham bulls, ${ }^{2 \text { yeerrs ola, and }}$


 SHORTHORN
and BERKSHIRES Prosont offerinit Soveral go Proesent offiring: Soveral sood
young bulle, and a choloe lot of
young pigs, young pigs.
JOHR RRCEY, JR. SMITHFIELD FARM SHORTHORNS Herd headed by the Missie bull, Aberdeen Bear
 R. E. WHITE, BALDERSON. ONTARIO $\underset{\text { Young bulls for sale, wired by Speotator, imp }}{\text { In }}$ Foung balls for sale, sired by Spioctator, imp JOHN MoCALLUM, Springbank Btook Perm,
IIGR. WILLOW BANK STOCK FARM
 young stock of either sex. shookhorne, SHORTHORNS, LINCOLNS \& OXFORD DOWHS


 SHORTHORNS ANO LEICESTERS. Also bull calves, all from ing ready for service 4 -wes and lambs of both sexes for sale. Address Caledonia station. DOUGLAE,
Calodon Tuecarora P.O. Scotch-bred Shorthorns $\begin{gathered}\text { Four youn balls } \\ \text { fitfor service;ale }\end{gathered}$ sevelal cows and heifers in calf to soorvice; Molso
ing (iam.
ind.), now heading the herd, at lothing
prices. prices.
EHORTHORNS WEBER, Hewikville P. O.
DORSETS We are offering at living prices two 2-Year-old
and two
and tyear-old heifers, a couple of young the bulls and the stock bouls, White Couplo of young
The offering is a lot of good stuff and in
Coond D. BARTLETT \& SONS, Smilhville P.O. and Sta MAPLE LEAF STOCK FARM 4 Choloe Yound Bulle Por eate. Als
some cows and heifers, and prizewinning Berls ISRKELL GROFF. AIma P.O. \&est Oak Grove Shorthorns-Present offerin heifers and young bulls, all sirederer by Imp. ©ows
pareil luke and out of imp dems : also the . Nool

TWO YOUNG SHORTHORN BULLS


THE FARMER'S ADVOCATE


Scotch Shorthorns
HOLLYMOUNT STOCK FARM

heifers from import ed sires and dam cor sale at
able prices. For particulars 1 write to
W.J. THOMPSON, Mitchell,Ont. Shomthoms, Cotsmolds
 and Berkshimes. For sale: 4 yearling bulls. cows,
heifers and young calves.
Orerrer booked for Cotswolds and
berkshires Chas. E. bonnycastle. P. O. and Stn. Campbellford, Ont.

SHORTHORNS AND SHROPSHIRE Have sold all the sheep we can spare
at present, but have a few Shortt present, but have a few Shortasked for quick sales.
T. H. MEDCRAFT \& SON, Sparta P.


SHORTHORNS


SOLOMON SHANTZ, Haysville, Ont
ROWAN HILL SHORTHORNS


4. DUNCAN_*_soms, carluke, ont.
J. Watt \& Son SHORTHORNS


SALEM P.O. Elora Slations, G.T.R. and C.P.R MAPLE + GROVE + STOCK + FARM sootch and
sootch-Topped SHORTHORNS

 Cioes. For partiolarar writo to
 Shorthorn Bulls ${ }^{\text {Imp }}$. Soottish Peer $=$ toues -
 and frear- JAmES swELL. Clinton, Ont.
 5 and 10 months old Aleo feem heifers at verr


SHORTHORN BULLS FOR SALE
1 roan calf 15 , months old, of the Duchess of
Glostat family.
1 roan
 JOHN MILLER, Brougham, Ont Sherthorn Gattle and Lincoln Sheep

$$
\begin{aligned}
& \text { Shorthorn bulls, cows and heifers } \\
& \text { for sale at greatly reduced prices }
\end{aligned}
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\begin{aligned}
& \text { for sale at greatly reduced pricos } \\
& \text { for the next } 60 \text { dayy. } \\
& \text { om }
\end{aligned}
$$

J. T. GIB
itidiurst Shorthorins
 orrrod Engish and home.-bred dams
of good milking strains.
Jas. a. сооhrane, Compton, p.a

## Queenston Heights

SHORTHORNS
 straieht sooton. HUDSON USHER. Queenston. One Shorthorns and Berkshires


 HIGH-CLASS SHORTHORMS



R. S. ROBERTSON. AAPnprior, ont.
N. CEDARDALE SHORTHORNS


Riverview Sherthorns and Oxfords


Peter Cochran, Almonte P. 0. and Station A. EDWARD MEYER,

Scotch Shorthorns.


 оотан-TOPPED SHORTHORNS

H. CoLDING \& sons. Thamesford, ont


Greenwood, Ont.
Offers for sale, at moderate prices,
$12 \begin{gathered}\text { high.lalass } \\ \text { yearing } \\ \text { BULLS }\end{gathered}$
All sired by imported bulls, and most of
them from Also imported and home-bred cows and

MAPLE GROVE SHORTHORNS


Imp. and Canadian bred Males and females, as good types as the brees. prod gooes.
With breed bugus C. D. Wager, Enterprise Stn. \& P.O.. Addington Co. SHORTHORNS

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 R. MITCHELL \& SONS, GLENAYON STOCK FARM Shorthorns and Berkshires
 W. B. ROBERTS, Sparta P.O R.A. \& J. A. Watt, Salem, Ont
Eloma Station ond Home of tution on the G. T. and C. P. Ry
Comadian Natirs and third prize aged herd

 number on other leading winners, A choo dice
nill times. hand to make your selection from a

Hoaded by (Imp.) Jillt Victor= $=$ NuIg =
 HAINIMG bros., Hiehhateo. Ont Kent co. Maple Lodge Stock Farm

A. W. Smith, Maple Lodge P.O.,Ont.

| HARMONICA |
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READINGGLASS
Cut out and return to ub,


SHORTHORNS
Herd bulls: Imp. Prime Farovite $=45214=$. Imp. Scottish Pride $=36106=$, a Marr Roan Lach

12 mporthod bull
10 imports.
10

W. G. PETTIT \& SONS, Freeman, Ont. Burlibgeton Jot. Sta. Liong didistanoe teloJOHN GARDHOUSE \& SONs, Highifid P.O., Ont soten and scoten -hopod Shorthorm, Lincoln and



## SHORTHORNS



GEO. AMOS a SoN, moflat Stn. and P.O., C.P.R. Pine Grove Stock Farm. Choice Shropahire Sheen, Clydesdale and Hack Herd catalogue on op apliciction. Addroes: JAMES SMITH, Supt., Rockland, Ont.
W. C. EDWRRD $\&$ Co.. Limited Props. on For Shorthorns- One young ball. 14 month

 Sunnyside Stock Farm ${ }^{-8}$ shoperior young


## I Have Imported

more prizewinning and high-class
breeding theep in the past twenty years th
combined.
I WILL IMPORT anything you may need this year in cattle
or hheep. Will leveve or Engiand
on the isth Nay
NIV address on the 18th May. My address
there will be Care of Altred
Yansell \& Co. Shrowshury Fng

Robt. Miller, Stouffilille, Ont SHORTHORNS AND LINCOLNS.

 50 miles Highoate, ont

SHORTHORNS
 CLYDESDALES
 Brown Lee Shorthorns $\mathrm{S}_{3}^{- \text {Present ofifring is ie }}$ young bulle

 EPRING VALLEY SHORTHORM

 Glen Gow Shorthorns - Our preen of ofering

 solemnly made that the horse, atter
passing through an area of decreasing
prices, will cease. It was roads began to toain headway, when
bicycles came into use, when the electric cars commenced to buzz along the high-
ways, when the uuto developed
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SUFFERING WOMEN
who and Ho a burden. one havo beanth and

## MIItourn's Heart and Nervo Pills.


and HEIFERS
Sired by the scotch bull, Soottish Lad 45003 FOR sALE.
S. DYMENT, Bample, OntarloClover Lea Stook Famm

## SHORTHORNS



R. H. REID PINE RIVER, ONT.

GEO. D. FLETCHER,
Breader of Sootoh Shothorn
Oattie, Yorkhire plet

 Eggs for hatcoling Troc. per setwing.
Binkham P. O., Ont. Erin Station and Telegraph
BARREN COW CURE


Portor's Gold and silver Fawn
SI, LAMBERT JERSEY HERD

 T. PORTER, Carleton West, Ont. hipotit (Ound des st) hars come out within
DON JON


D. DUNGAN, $\qquad$ Don P.O-
HIGHGROVE JERSEY HERD.
 ROET: TUFTB \& Sons. Twood P.O. \& Bta. Brampton Jersej Mert-wo heve now for lm

 TPhoos es.
An oxtra nice Jersey Bull, at for ser
feoringe
F.
F. B. WETHERALLIM Rusenton Farm

THE FARMER'S ADVOCATE.

## The Healthy Steer the Money SteerIENOLIEM <br> Disinfectant, Lice Killer, Germicide. <br> It makes Healthy Quarters, Avoids Conta gion, Kills all Lice and Insects, Relieve from Stomach and Intestinal Worms.

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Frank W. Harding. Shor Horn Cattle, Waukesha, Wis.



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scientific men and the Experiment Stations have taught then in
Prices, Freight Prepaid: One Gallon, only \$1.50. Tw
Send for "Zenoleum Veterinary Adviser" and "Chielen Two Gallons, only \$3.00. Five Gallons, only $\$ 6.25$.
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Samis \& Bush, Calgary.

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 SPRINGBROOK hOLSTEINS \& TAMWORTHS

 A. C. Hallman. Brastau, ont

Lyndale Holsteins. For Sale A number of bull callyeg from

 We have four yearling bulls livet which we will
 MOLSTEINS AND CHESTER WHITES

 MAPLE GROVE HOLSTEIN-FRIESIANS

WALBURN RIVERS. Folden'e Cornere Grove Hill Holsteins

 "GLENARUHY" HOLSTIEINE

 IMPEPIAL STOCK FABM P. and Ety arm holstein


QUEEN CITY hOLSTEINS

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## ANMANDALE HOLSTEIM HERD







GEO. RICE, Tillsonburg, Ont WOODBINE HOLATEINS


 Ayt, C.P.R: A. Parien an le
few HOLSTEIN BULLS
 w. clemons, st. George, ont


MANNON BANK STOCK FARN
 SPRINGBROOK AYRSHIRES.

 AYRSHIRES FROM A PRIZFWINNIMG HERD


## AYRSHIRES

The famous Retord Herd at St. Anne de Sollevue, OUe, now owned b
Sir William . Macdonald.
Several yearting bulls for sale;
also a number of tuil calves, also a number of bull calles,
Quality and appearance extra good bred ffrom the beast mince extratra goon
noted for robust constitutuin noted for robust constitution an
larget teats.
For
MACDONALD COLLEGE
St. Anne de Bellevue, Quebe
AYRSHIRES and YORKSHIRES


 AYIIVlow Hera of Prizewinning


Hilviaw A. KENENEDY, \& SON. Maple curr Datr. On,





eicester Sheep
SHROPSHIRES
geo. hindmarsh. allisa crale, ont Oxford Down Sheep. Alisa Cralg. Ont.
Yorkhire
Horgs.


QUESTIONS AND ANSWER Veterinary

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nasal gleet-tuberculin test.
see a question and answer re nasal
was yot issue of Apuril 26 neth, but
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## It Pays to Buy a Deering

Gets
All
the Grain
 turns $Y$ OU realipe chis when you come to figure
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 $\mathfrak{c}$ s.ind INTERNATIONAL HARVESTER COMPANY OF AMERICA, CHICAGO, ILIL


THE NEW QUICK WAY TO CURE

Is Without Operation, No Palin, No Danger, No Loss of time From Dally Work.
 DR.W.S. RICE, $21 / 2$ East Queen St., Block 279 Toronto, Ont.
on which side ruptured?
Age.
Name.
Nat.
Ever operated on for rupture


Shropstilre Cotswold Sheen
SCOTCH SHORTHORNS and


CLYDESDALES
Ohoice ram and owe lambs. Als for sale. Apply for sale. Apply

## JOHN BRIGHT

## Mymtle Station, Ontario

 BROAD LEA UXFORDS

 Teeswattr, , P.P. P Teeswater, ont.
DORSET HORN SHEEP and DORSET HORN SHEEP a
SCOTCH SHORTHORNS The latter representing the Monpareil, Mise
Ramsden, Missie end Giloster fome

 vorth Jomn A. Mogillivray. COTSWOLD SHEEP

## the whe of the ored. We have bred the prizewinnerg at the lexding Eng

HOULTON. Broadfield Farm. Northleach. Glo W. HOULTON. Broadfield Farm. Northleach, GIos,
ENGLAND: or S. HOULTON. Calgary. ALEERTA.

QUESTIONS AND ANSWERS
Miscellaneous.


building on graveyard site
Having purchased
 FowL TREsPASS.
My neighbors' fowls are damaging a them if they would kindly keep them out, and they did for a few days, but
now they are on it pretty much all day. 1. Can I shoot them?
2. Kindly give your advice ? Ans.-1. No OLD SUBSCRIBER. 2. You may have the fowls impounded
or, in the alternative, you may notify
their owner in writing of their trespass,
and is Cheir owner in writing of their trespass,
and if, after being served wwith such
notice, he refuses or neglects to prevent
the the fowls from furtherects to to prevent
thang on
your premises, you may have him
lrought before a justice of the peace and
fined.

Whitewashing apple trebs. apome people whitewash their young
appe trees in the spring. Is this ad-
visable? Is there any danger of makvisable? Is there any danger of mak-
ing the lime wash too strong ? Will it help
destroy bark-louse? Ans.- Whitewashing apple trees is a
good practice for one who does not Good practice for apple trees is a
suray. it it a portially whees not
sure against the bark-louse and otheas-
ure ane in-
sects, and has sects, and has some effect in ridding the
trees of fungi. Spraying peach trees
with lime wust with lime wash is sometimes prach trees
a means of retarding bud development in
apring

## spring, and thus protecting the buds irom late frosts. As a rule, this is not considered necessary for apple trees in

 most sections of the Province. White-wash will not injure the trees in any
Way, and there is no danger of making
it too strong. Fleas.
This is my first year on a farm. I am
told that in the summer-time, the farm-





$\qquad$
tate of affairs?
?
A Prospective sufferer.
Ans.-It cannot be denied that fleas are

## Ans.-It cannot be denied that fleas are nuisance in some farmhouses, but the

## A I'rospective Sufierer's" ${ }^{\text {a }}$ fertile


Bunches of fresh
hnyroyal scattered about are said to
a thea-repellant. our own olserva-
on connects them only with a dry sea-
in and piles of sand allout the premises.

DR. S. GOLDBERG,

In the mind of any man that he has the






 ato

QOUTHDONUNE


OOLKIE
At stud, Holyrood clinker
Robt. McEwan, Bymon, Ont

 -E. F. PARK, Burkoneville, Ont. NEWCASTLE HERD OF amworth Swine and Shorthorn Cattle Boars ready for service, and sows bred and
ready to breea, and a whole lot of beauties from
to



 coLwILL BROS., Nowoastie, Ontarlo. Mount Pleasant Herd of Tamworths anges on hand. Alarge herd of choice pigs of all
 . 1901-2-3. A Also

Tamworths and Dorset Horn Sheep.


## MONKLAMD YORKSHIRES

We keen 33 brod and canadian-bored.
hand bews, and have constantly
 JAS. WILSON \& SONS, FERGUS, ONT L.T.R. and C. P. R. Long-distance 'Phone LARGE ENGLISH BERKSHIRES 5 Pronent offoring: Choioe stoek frome 6 weeks

 CHESTER WHITE SWINE Shropshipe Sheep and Mammoth
Bronze Turkey Egse. Write for pricos.


## Don't Pay a Cent

To men who are run down, weak and puny, and who have lost the
force of vitality, who feel gloomy, despondent and unable to battle with the affairs or life; who have Rheumatism, Back Pains. Weak stom-
nch and Kidneys, and feel generally as if they needed to be mat


## Until You are Cured

after it. But I am after the dollars that are now going wrong in the quest of health. Look at all these poor wrecks of humanity that are spe -ding all they earn on drugs-dope that is paralyzing their vital orga.s-that have spent all they have earned for years without gaining pound of strength for the hundreds of dollars wasted. can give a thousand per cent. interest, and I don't want it at all untll I have cured you if you will secure me. I have cured so many
cases right here that I can prove my claims to you, but if that proot is not enough, I'll give you the names of men right near you-where you I want you to know what I have done for others. O. JOHNSON constitution nothings: can equa! your Belt., I feel like a new man, and If you would believe the thousands. of men whom I have already
treated, my Belt is worth its weight in gold. tic rheumatism, Erd tried different remedies atic rheumatism, and tried different remedies, but got no benefit, and
am pleased to say your Belt has completely cured me in less than
two months." two months.
But some men don't believe anything until they see it. That's why
I make this offer. I want to let you see it, and feel it, and know it
by your own experience. before I get a cent.
If I I den't cure you, my Beit comes back to me and we quit
riends. You are out the time you spent on it-wearing it wnile friends. You are ou
sleep-nothing more.
 if you cant't thene cut out tnis ad. and Eend it in. It will bring you a
description of my Belt and a book that will inspire you to be a man

CALL TO-DAY
Free consultation
DR. M. ${ }_{112}$ S. Monge Street, Toronto. $\frac{112 \text { Yonge Street, Toronto. }}{\frac{\text { Dear }}{\text { SIr,- }- \text { Please }} \text { forward } \mathrm{me}}$
Name
Office Hours: 9 a.m. to $5.30 \mathrm{p} . \mathrm{m}$. Wed-
nesdiy and Saturday till ${ }_{3}$.
IF YOU CAN'T CALL, SEND COUPON FOR FREE BOQK
H. . M. VANDERTOd and Canadian-broa


HILLCREST HERD OF ENGLISH BERKSHIRES For sale, 1 lot of very ohoice young things of various ases. Wo propay

| Vine Sta., G. T. B., near Berrio. |
| :--- |

Spring offering of LARGE WHITE


A fine lot of March
pigs from imported
citan

$\underset{\text { ported in taken June. Write }}{\text { Or }}$
H. J. DAVIS,

Ontario.
Morriston Yorks, and Tams.

and extra
Prices rirht.
Cherlet



| QUESTIONS AND ANSWERS Miscellaneous. <br> teat expansion. Could you give me the address of so firm that make or sell teat busters" <br> Ans.-li you mean a syphon for dra ing off the milk, you can obtain it fis bly house. if you mean a tistoury, would advise against its us, unless the hands of a competent veterinarian |
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| bors sets him against you in say is not getting wages enough, there a way to stop it? ONT <br> Ans. - Not unless, inciatental neighbor is endeavoring to entic |
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tax exemptions desired
and cement walks? Now they are
agitating waterworks to the tune o
s40,000.
SCBSCRIBER.
cattle codghing
over a year ago, and at long interval.
Recently she stopped coughing, and
apparently welt


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## Ans.-1. Would not adrise you keeping any animal that has the slightest

time, you might give for the cough
Chlorate of protash, pulv, nux vonica
pulv. digitalis. pulv, lobelia if eanch

## dessertspoonful twice daily. We thin calf might safely be kept.

2. Consider one year old the best age
or castrating; prefer warm, dry weather,
such as month of

## hired man leaving. <br> HIRED MAN LEAVing.

Every Hour Delayed in CURING A COLD IS DANGEROUS.

You have often heard peoplo say: "Ito onts
oold, a vififing cough." but many a ife hintor oold, a trifing oough," but many a aife history of a oouch, it had been remedied with
DR. WOOD'S NORWAY PINE SYRUP.
It is a pleasant, pate and effectual remedy,
that may be confidently relied upon as a apecifo.
 Group, Whooping Cough, Quinsy, and all affee tions of the Throat and Lunga
Mra Stephen
E.
 writes: "I have ased Dr. Wood"s Norway Pine
Byrup for Asthma, and have found it to be grand modioino, always giving quick rohel. We Wo moutd not be without a bottle of it in the boune." ${ }^{\text {Dr }}$. w Dr. Woode Norrway Pine 8yrup is put up in
jellow wrapper. Throe Pine Trees in the trad
 Rofume
ont it Asthma
We give prompt relief and permanent
freedom from Asthma. Our latest Book, No. 57 F , will be mailed on request. DR. HAYES. Buffalo, N. Y.
LIREE ELIOLSSI YORKSHIRES




D. C. FLATT \& SON Mions Prioes reason. RRIVEER YIBCVUPNe. Ont.
 ROBERT CLARKE $\underset{\text { Importer an }}{\substack{\text { an } \\ \text { Breeder of }}}$ Chester White Swine Pigs shipped not akin
to each other.
For 41 Cooper Street. OTTAWA, ONT.
Oakdale Berkshires No whe tide
YORKSHIRES

Yow on hand, anumber of sowe 5 and
monthe old. for spring farrow:

DAVID BARR. JR., Box 3. Rentrow, Ont GLENHODSON YORKSHIRES AND POULTRY.

 gLENHODSON COMPANY, Myrtle Station, Ont-
 Ohio Improved Chester Whites


H. E. GEORGE, $\quad$ Crampton, Ont IMPROVED YORKSHIRE FOR SALE GEO. M. SMITH, Haysville, Ont


[^0]:    Shorthorn heifer; calved, Sept., 1902. Winner

