
LONDON, ONTARIO, MARCH 11, 1909.

Water! Water! Wator!


A FAIRBANKS-MORSE GASOLINE ENGINE
a pump and a few feet of pipe will supply
you with water from the nearest pond or you wit
river.
This equipment will save you from experiencing another water shortage.
Over $\mathbf{7 0 , 0 0 0}$ users.
Don't Depend on the Weather.
send for illustrated catalogur.
MUSICAL PEOPLE
throughout the land.
BELL ORGANS
the canadian fairbanks co., limited
montreal St. John, N. B. Toronto. wimnipes. Calgary. Vaneouver.
Oom smoman
prople who want the best
buy " bell." cataloove

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## POTASH

has absolutely no substitute as an ingredient of a COMPLETE FERTILIZER for all Farm, Orchard and Garden crops. leading ferilizer dealers and seedsmen in the highly-concentrated forms of

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MURIATE OF POTASH.
Write for full particulars and copies of our free "publications,
ding : "Fertilizing Orchard and Garden," "Potato Crop Canada," "Fertilizing Root Crops and Vegetables,"" "Fertilizing Hay and Grain Crops," "Artificial Fertilizers: Their Nature and Use, Grai, Cle, enc,
Dominion Agricultural 0ffices of the Potash Syndicate,
1102-1105 Temple Building, Toronto, Ont.

## METALLIC CEILINGS

are everything that plas-
ter, wood and wall paper ter, wood
are not.
re not.
Metallic Ceilings are fir
Metallic Ceilings don' crack or crumble--don't
get damp or mouldy-don't get damp or m
need repairs.
Ctallic Ceilings are far
and-away the most eco nomical building materia you can put in a house. You don't believe it ? We
can prove it. Write us for can prove
TheMetallic Roofing Co. manuracturers TORONTO AND WINAIIPEG

Quebec Grown Plants. The Neweat Raspberries by expre

 Cuthbert London, Marlboro, Baumforth, 60 cent
 STRA WBERRIES

Corn That Will Grow Buy your seed corra on the cob, and avoid um-
cortainty. Hand selected, Canadian-growi
 price list to:
J. O. Duke, Ruthven, Essex Co., Ont. When Writing, Mention This Paper


ASK FOR FREE CATALOGUES SEND SIZE OF HOUSE FYOU WISH ESTIMATE OF COST OF FURNACE NSTALLED READY FOR USE the Gurney, Tilden Co. HAMILTON LIMITEOMONTREA
WINNIPEG.
VANCOUVER.

## SHAKE-SHAKE-SHAKE-No Stopping ,

 TOU can buy any one of many kinds of common "bucket bowl" cream separaL tors and be positively certain the "bucket bowl" will eventually shake itself to pieces. Or you can buy a Sharples Tubular Cream Separator and be positively certain it will never shake.
## Here's the Reason:

COMMON "bucket bowl" separators have a heavy "bucket bowl" set heavy end up on top of a spindle which is held up by several bearings. The weight is above the bearings. Such bowls constantly try to tip sidewise. If they did not want to tip, why have bearings to hold them up? This tipping wears the bearings, allows the bowl to shake and eventually wracks the may expensive repairs or the purchase of a new machine the "shakes" in common "bucket bowl" machines
YOU can surely avoid a shaking separator by detting a Sharples
Tubular. Sharples Separators are entirely different from all others. They have light bowls, hung below a single frictionless ball bearing. Being hung nat urally, with their weight below the bearing, Sharples bowls cain not and do not tip sidewise, shalke or vilbrate.
CHARPLDS bowls run as smoothly after 20 years use as when new. Tubular bowls weigh just abcut half as much as common "bucket bowls," yet wear many times as long.
dHARPLES separators are the only kind with suspended bowls fed through the bottom-the only kind that do not get the "shakes." Our patents pre= vent others from making them
THF manufacture of Sharples Tubular Cream Separators is one of Canada's leading industries. 1908 sales were far ahead of 1907 -way beyond


Toronto, Ont. Winniped, Man. Write for catalog No. 193. It will interest you.


Sharples Separators are most easily and perfectly oiled. Simply pour a spoonful of oil ritht down among the enclosed, dest proof deara once a weel. The lower fear wheel, when ii motion, sprays the oil over the gears Hose, frictionless bair bearing supporinit with least Most convenient, insares perfilly to the easier attenid and treater durability of Sharples Separ ators es compared to others.


Absolutely Free

is your power when you have a Canadian Airmotor !


 talage
Ont. Wind Engine \& Pump Co. toronto. (Limted) ontario.




POTATOES PAY



MARCH 11, 1909

## FENCE TALK No. 6

## USUAL CROP OF Cream Separator Snares and Tares

If actual merit alone prevailed the DE LAVAL crean separator would be the only one made, sold or used. proposition to those who " need the money," so that proposition season brings with it a new crop of separator fakes every season with some of the old conjurers over again and always a few fresh ones.
Last year the new and improved line of DE, LAVAL, machines literally swept the field. This year everybody machınes "new " machine, which is the one thing they universally harp upon in their talk and advertising. But it versally harp upon nonsense. There is mighty little new is mostly bosh and nonsense. NAL, patents have expired, so that there is
of this year

There's the usual crop of fakirs appropriating the facts of DF LAVAL separator use and the endorsements DE LAVAL, separators have received, and quoting them as though they applied to their own inferior imitations of the standard cream separator

There's the concern which makes an inferior disc sepator and speaks of the "disc" separator being "the machine which has won out universally in Europe, the home of the disc separator." True, but it was the DE LAVAL that has done the winning out in Europe, as it has in America.

There's the political separator concern, with the new year" or "cents" trademark, whose claims it is to be hoped nobody ever believes, and which manifestly practices the circus man's theory that the great American
public ever likes to be fooled. There's the only concern which has stuck to the abandoned DE LAVAL "hollow bowl" of 30 years ago, but will this year desperately join the procession of 1o-yearback DE I.AVAI, imitations with
machine.
There's the "Trust," striving to complete its monopoly of dealer and farmer, harvesting much costly separator experience, largely at the expense of buyers-farilye, tade farm trying to build a cream separator like ordmarne-made far machinery.

There's the "mail-order" outlit, with their cheaply-made machines, bought here and there, not made by themselves or sold under the real manuractuc that should be below it. the earth, and many of the trim But the merry lot changes and dwe their unfortunate They gradually drop out and leaves. More will fade patrons helpless with trashy machike the creameryman away this year. The dairy is coming to know sollow mere "claims" so easily. $98 \%$ of the world's creamerymen use DE LAVAI, machines. The percentage of farm users content with nothing else is always increasing.

There isn't a single reason why every man who buys a cream separator, this year should not buy a DE Lest costs There are many reasons why he should inferior imitating machines.

A DF, IAAVAL catalogue may be
DE IAVAL machine may be tried for the asking.
THE DE LAVAL SEPARATOR COMPANY
173-177 WIllam St.,
14 and 16 Prinsess st. WINNIPEG.

The Page "Empire" Fence (White Brand)-there's a fence that outclasses them all, at every point of fence-value. It s the strongest wire-fence mire-fences.
It is not an expensive fence, although every upright and every horizontal wire is made of 9 -gauge steel. Not expensive even though its horizontals are High-Carbon Gaivaithout breaking. guaranteed to stand ",400 los. tensile stre that breaks at 1,800 (Other fences use "hard drawn" wire, that breaks at 1,80 lbs. and less.)
Not expensive, even though it's coated with a permanent white hat defies weather and rust and makes it sightly enough for a palace lawn.
Decidedly not expensive, just as any Page Fence is not expensive, because the toughness of the wire, the springiness and the solid-joint lock-knot, insure that though but two posts are stand up better, and never fence

With ill its betterments, that no other fence even approaches, With all its a Page 'Empire run once it's up, than any fence made.
Shall we prove that to you? Ask nearest Page place for free Shoklet that tells about the many kinds of Page Fence (including "Empire") and shows how you can prove any fence be fore you buy it
The Page Wire Fence Co., Ltd., Walkerville, Toronto, Mont real, St. John, Vancouver, Victoria.

## "PAGE FENCES WEAR BEST"


two horses, or hand operated if preferred.
detailed construction of the Spramoter
SPRAMOTOR, LTD., 1052 King St., LONDON, ONT

## Only One Kind of Roof I Know of is Guaranteed for 25 Years.

$0 \begin{gathered}\text { SHAWA Galvanized Steel Shin- } \\ \text { giles make a roof that is not }\end{gathered}$ giles make a roof that is not only guaranteed, under steal oranteed to be and to remain a perfect roof for twenty-five years: It is the only roof I know of that is sure to be a good roof for a hundred years. It's steel, you see, to start with-heavy ( 28 gauge) sheet steel of high quality. Can you imagine steel wearing out?on a roof.
$\mathbf{S}^{\text {TELLS }}$ only real foe is rust ; $\int$ but rust cannot get at the steel of an Oshawa-shingled roof, because every shingle is heavily because every shingle is - coated with a tin-and-zinc smelter that perfectly protects the steel against every form of rust.

$$
\begin{aligned}
& \text { HAT is why you will } \\
& \text { never need to paint }
\end{aligned}
$$ ar need to pain it doesn't need painting, because the heavy galvanizing is a far better protection than paint could ever be. put what you save by putting on a roof that needn't be painted and yet will be a good roof for a hundred years

$D^{\mathrm{ON} \text { 'T imagine our guarantee }}$
in plain English, that if an Oshawa - shingled roof, put out right, leaks, or is at all unsatisfactory within 25 years, we who supply and put on a new roof free and square? Did you ever hear of another roof that had such a guarantee back of i $\int^{\text {ON'T }}$ get the idea, cither, that really right. An Oshawa-shingled

root first cost is no more than the est of an ordinary woodtingled oof ! It's final cost is ten times less than the cheapest wood-shingled roof! And an Oshawa-shingled roof is more than rain-proof, more than snow-proof

## OSHAWA

GALVANIZED STEEL SHINGLES
A new roof for nothing if they leak by 1934.
sulate the building-the bolt may strike the structure, but it cant
sta damage it. Such a roof is far better insurance against light ling than any lightning-rod si

Nybony who can use a ham $\mathbf{A}_{\text {mir and snips (tinner's shears) }}$ can put these Oshawa Shingles on fight-easily and quickly. They lock underneath, on all four sides, so that every nailhead is complete by covered with galvanized steel and the whole surface hasn't a seam nor a crevice

SUM it all up-a roof that cost one-tenth what cheapest woodsingles cost: a roof that is absolutely wear ther-proof hsolut -a roof that is guaraneed to be a perfect roof for 25 years (or a new roof for nothing) -sum it all up-wouldn't it be wise for you to send today for the booklet that tells why You should roof right? Just send a post card to-day to our nearest warehouse.
wore than wind-proof. It is not only an absolute insurance against leaks, but fire and against lightning! is that worth considering

## 0

 sparks or red hot embers ouldn't possibly set fire to a roof overed with one seamless sheet of steel. That one fact alone makes an Oshawa -shingled roof earn money, because such a roof gets you a lessened lire risk premium any buildingA lightning camot damage a
ORLE OF OSHAWA ESTABLISHED $1861^{124}$

THE PEDLAR PEOPLE OF OSHAWA ESTABLISHED
MONTREAL OTTAWA TORONTO
chatham
WINNIPEG QUEBEC ST. JOHN, N. B. HALIFAX 2.46 Prince William S

de want acme r in some seth

menton this paper.

# The Farmer's Mdvocate and Home )ragazine <br> Persevere and Succeed. 

Vol. Xid

EDIT'ORIAL

Lightning Attraction and Protection.

## a theory that the lightning-bolt is a

 racted by sub-surface springs. We fail to see that this is of any practical importance, even if rue, for it would cost more to aser thet y the absence of suing with rods, as many borings would ne's builary to settle the point, and many suc ecessary might be required to find a safe site. The only point that remains, then, is the scientific one, as to whether flowing springs are the controlling factor in attracting the lightning. While such may be an attraction, experts are not disposed to regard sub-surface streams as the only or even the main magnet. is more likely to be the target. In any case, it is quite well established that, whatever the influence which draws it hither or thither, the lightning, in reaching the ground, may be deflected or guided in its course by anything which is a good lightning conducto -for instance, a steel or copper wire. High objects of almost any kind, and particularly solitary ones, such as a country church, a bially liable lone tree in a pasture feld, arg aga is much to be struck. In cities, he country, notwithstand less commonensely greater property value per acre Whatever the attraction, there is no doubt it pays to rod farm buildings, unless they are metalroofed and metal-sided, in which case rods are unmecessary. Even a metal roof, with ground kery larce proportion of the blazes which occ sion such loss in country districts, and, while the proportion of fires attributable to this cause is not usually so high as in the case cited by our correspondent, it is sufficiently large to warran rods or otherwise, as indicated abovePower Outfits for Plowing
$\qquad$ urned over with a power outfit, but few have studied the question from an economic standpoint for use on their farms. An article on an-
other page of this issue shows the actual cost of plowing by steam last fall on an Ontario farm, one hundred and ten acres being turned an eight-furrow plow, the work was accomplished
$\qquad$ In localities where ways and means of saving not be advisable for a few neighbors to coperson to securing an ongine and gang? If a few farmers could guarantee work on thirty to sixty
acres pach, it might be possible to make arrangements as satisfactory as now prevail in thresh ing. A fair per cent. of the land on the average is removed, and before the ground freezes up. If the phowing could be accomplished in early fall in combating weeds, and put the land in first class condition for spring sceding. One advan tage of steam plowing is that it can be performed
when the ground is so dry as to be almost im

A Substitute for Bran.
$\qquad$ know a good thing when he sees it." The up-to-date farmer classes himself in the categor alert business men, and yet many of us spend half a lifetime or more finding out simple secrets which scientifically-informed men have been ing at us from the housetops men now living wheat bran than bawdust a dumped into the river by millers apwards of wenty dollars a ton, and the feeder who declared it not worth hauling home would be laughed out of face. But history has a penctiant forers and grand self, and the attitude of our fathers and of many iathers towards bran is now the attitude were as among us towards alfalfa. appreciated as bran, there would be a field or two chesfully grown stock farm where and no farmer keeping cattle, sheep, hogs, poutry or horses would give apts. If his land were least ten successive underdrain it: if too sour, he would lime it; if too poor in humus and plant our he would manure it-anything to grow al falfa, which is better feed than clover, and, if well cured, is nearly equal to wheat bran in feeding value. It may be not quite so digestible, but the difference is not great. Analysis shows the following compariso

\% Digest- \% Digestible \% Ether ible Protein. Carbohydrates. Extract |  |  |  |
| :--- | :--- | :--- |
| Alfalfa |  |  |
| Wheat |  |  |
| Wran | In..... | 11.2 |
|  | 12.2 | 39.6 |
| 9.2 |  |  |

Wheat bran we see that good alfalfa hay conins practically the same amount of the elements ins practica yoduce heat, fat and energy, and nine-tenths as much of the very important ele ment, protein. When it is explained that th special value of bran, apart from its laxative and diluent properties, is in supplying protein to bal ance up rations of farm-grown fecus usually de ficient in this element, and when is show thi alfalfa contains within onetense economy of al constituent as bran, whe source of protein, begins atia, as a home This is not mere theory. Pracimpress one. The well-known Eastern On ice bears dairyman, Henry Glendinning, feeds no bran or grains at all, depending entírely upon alfalfa to supplement his corn silage and other bulky reeds. 1 Ie obtains good results, and insists that he is producing milk at a rock-bottom feed cost () thers have similar experience.

Some fail to realize full value from alfalfa because they let it become too mature and wood before cutting, some because they do not cure it aright, some few because their stock being in at customed to the new feed do not all first, and many because they
iudiciously. To derive best and most economical returns from bran, one woul the ration. This would not be ideal practice, cven were it cheap as hay. make the most of bran, one would feed it as supplement to balance up other feeds rich in carbohydrates, but deficient in protein. So with alfalfa, only that, being cheaper, it need not be fed so sparingly as bran. But it shour ne be used alone, for best results. Corn silage and alfalfa make an ideal roughage for bee production. It is likewise adapted to supple ment corn fodder, corn meal, timothy and straw all of which are relatively deficient in protein.
ields that may be obtained, five tons per acre ear after year without reseeding, being easily btainable on suitablo soil. Fertilizing is not hécessary though beneficial, and may consist of un occasional light dressing of manure, with in ervening applications of wood ashes, lime and hone meal. Thus tertized, on werl-draied of the he alfalfa will draw frcely on the nitogen of up, air, produce tuxuriant and, when wiil leave the land

## eeded down.

The point we would reiterate and impress is the economy of home-grown alfalfa as a substitute in part, at least, for purchased bran. There is a mint of money for Canadian farmers in this idea. Think of five, or even four, tons of bran produced per acre, with a minimum of labor, and the lond finally left richer than at the beginning ! Awak to the opportunity! Do not be as those who lowed bran to be turned into the river, Ulalfa not worth taking home. Whan can grow nearly as good a fees as form three or four and harvest it on your ows Even supposing the dorst ars of the season is occasionally lost for of hay weather, there will be prof the usually all thre on the second

The Sheep-breeders' Petition That the petition recently distributed among Canadian sheep-breeders, and commented upon editorially in "The Farmer's Advocate" of Fobruary 18 th, was not endorsed in its entirety by the generality of those whose signatures were invited, is the candid assurance with which ourd esteemed friend Mr. Campbell comes the prothis issue. While all are agreed as arican standpriety and prudence, point, of an early removal or many of our hirty-day sheep quaranat portion of the petition hich objected as a quid pro quo, the Ca hadian Government should offer to lift the emargo American hogs coming into our packingbargo on Ameri
houses in bond.
Mr. Campbell is of opinion that our former editorial left it open, to be inferred by unin iormed or casual readers, that this suggestion wam sanctioned by Canadian sheepmen as a body. No such impression was intended to be conveyed. merely stated that such a petition had been cquest fated, and, in referring to the exceptionab the whole spoke of the petitioners, and doubt were left in anyong fraternic. how generally the petition was by no means unanimous. - 'The Farmer's Advo cate" is aware that a number refused to sign it, while others had subscribed their names without careful reading, and without cognizance of all that was contained, and yet others because they were in sympathy with its main purpose. Win this is the case, and while, as Mr. Campberl polut out, the petition was not end at the annual meeting of the Dominan neither breeders Associatio, although it had mas it repudiated at the Swinepreviously been ho delegates who had attended this session were present at the
heepmen's deliberations. Mr. Campboll's asWe are pleasedeclined to endorse the petition as it was circulated, and are perfectly conifdent he voices the sentiments of sheepmen generally. The petition was unfortunately framed, though its essential purpose is justifiable and sound, as Ca-

THE FARMER'S ADVOCATE
the Farmer's Advocate
and Home Magazine.
THE LH

## the william weld company (Limetro)

John weld, Manaorr.
armita for Thi Farmer's Advocate
the farmers advocate and home magazine It it pimpartial and indepondent of all liciuese or partioch handoomely








 -THbontite ior void - ANONMIOUS communcations nill meceive no attention. In WHENA REPLY BY MAL II RRQUIRED
 - LETTRRS intended
I. CEANOE OF ADDRESS. Subacriberr whe ordering \& change

 coterutino ot trexerimend
Treado of postage.
 the wilhim wein the william weld company (Lemerm).

Loroon, Camad.
scab, to guardic was imposed
sheep quarantine was
Dr. Rutherford assured his hearers, in an ad reported to his department from any point Canada for some months past.

Suitable Varieties by Grafting. s who have apple trees or other fruits in their orchards, of varieties that they know are not the most desirable. They do tit are to uproot the ree and wait for the development of a rafting, but many neglect this important line of because they never have secn to done, ur onsider themselves incapable of making a sucaled without allowing for unfavorable conditions, such as worthless scions or wrong methods, due to being ill-advised, the practice is condemned. Farn--
ers throughout the community neglect this work, and allow the old and compurationt varieties to remain. week particulars are given that should enathe iny man or results from top-grafting. Try a few this spring, and in the near future make the work so

Appreciation Grows with Reading which 1 have received as a premium for sending you a new subscription to "The Farmer's Adv pected. The new subscriber is perfect satisfied with your paper. I will do my best to secure more subscribers for you. The more


Fraud in Apple Business. or several years, prominent fruit-growers and ajers have supported the Government io expor able efforts to only of such and so result in the developmen he consumen in spite of legislatio of canadiantionary measures, the acts of un scrupulous men escape detection, and Canad fruits are given a black-eye that discredits Cana dian-grown stock. In South Africa, a sever cetback was administered recently bich were over of a cargo from Montreal, in which Close inspection on 1,000 packages of apples. Close inspection landing revealed the fact that (fusicladium dentriticum). This may have developed during tran(riticum). This may have develaimed that barrels contained small and inferior fruit in the middle ontained small and some, too, were disappointed of the package.
in not getting the varieties they ordered, but this could not be considered a grievous offence, provided the shipper wrote to explain the matter, and made the price right. It is not always possible to secure the quantity of certain varietles that are required to make up an asson furnish

Canadian packers and shippers can for noticeably plausible excuse for putting up apples nadiceaples infected with scab, or for facing ard Every san with specimens of higher standara. it is not only an in the but also that it results in serious injury to the apple trade in the country the man who consigned these apples to Cape haps later developments will show that a fine has been imposed. However, the loss to other shippers and to the orchardists never
known. When such offences are ferreted out, the greatest possible publicity, with name and ad
dress of culprit, should be made through the dress of culprit, share, producers should refuse positively to sell a barrel with the man or men ansthing whatever to do with a morthy indus-
 the inspectors for allowing such apples to escape every barrel, and to go hall-way down into every barrel, would entail enormous expense. of every quite possible mandred may escape the eagle eyes of the most expert. Defects frequently are detected, and in every case steps are taken to trace the matter
to its source, and to mete out consistent punishment. The growers must do their part to insure satisfactory pack. Spurn the man who has been
found guilty of fraudulent practices, and do business only with reliable buyers who employ competent and trustworthy packers, if you would prices. Better still, form a co-operative associa-

Why the Boys Leave.
working to convince the farmers of Canada that worming
the hap iest, the most profitable
the most, desirable occupation to be found An
yet, while this is a proven fact, it is well know
$\qquad$
homes. iarm needs the boys, and the boys need the farm. No one is so suited for farm work
as the farmer's son, and the hest place for most boys is on the farm,
nd becomes atinker, tailor, soldice or sailor,
nhe will work the latm? Will I inkers, tailors. soldiers and sailors jump their johs and begin ferminge lt will he a prow outlook for the the land. has been stated that boys are gettinge eduIt hase been stated that boys are getting ed
catat for any thing but harming. It is also tr
It heavily bonused, and get exemption from tax fion, etc, so that they are able to oner wher
wases than the farmer can afford to pay.

$\qquad$

I left the farm myself, and so did many of my choolmates and friends, and I met many more armers' sons in our industrial establishments, and
fall I can truthfully say that they were, almost with-
out exception, the pick of the men, and the main out exception, the foremen. The manufacturer well knows that a farmer's son is not afraid of work, but is well used thein, ordinary food, and us in pure airy is kept away from the vices of city life. csually is kept the farmer boy has a clear brain, powerful muscles, and usually an honest, clean character. The city boy seldom worked before. He has an appetite has spent his boyhood days and jelly-cake, and 1 afing about, smoking cigarettes and learning all manner of evil. Hence, he has not the brain and muscle possessed idle and impudent. Need I explain why farmer boys are preferred! I am sure many boys would not have left the farm if the father had tried the right way to
keep them home. I ask boys why they quit keep them home. of ask tell me they like farming first-rate. Few have a taste or gift for mechanics or some other trade. Others say tha hther wanted lo work for less wages for thei fathers than for anyone else. When they asked for a small wage, they were answered thus: "My ather never paid me anything, "Boys come back from town on a visit, all dressed up fine, and we feel small. I hnew if I had even a small wage 1 could dress like that too, and bank money a
well. I asked for a share in things, but ' No ! well. I asked for a share in things, but No!
was the answer ; work for nothing or get out. "Father said farming does not pay, and there i business, and I will seek employment that does ay." ()thers said that there was so much choring night and morning that they never could ge wenings off, and have a holiday occasionally They objected to a life consisting of nothing but work, eat and sleep. They would like an hour or so before bedtime to read or play games. the farmer plows with the good team, and works with good tools, while the boy has drive the handle and broken point; chop with the dull axe, saw with the dull saw, use the fork with the bent prong, and milk the cow that kicks or is desperately tough to milk. If the boy complained, he with his tools. "You would do nothing, anyway; if you were any good I would get you,
something else, but it is not worth while", Finally, the boy gets sick of it, and leaves, ant the tough-milking cow and balky team are got rid of. The hired man uses new tools, and takes the wages which would have been more than suffi cient to keep the hoy at home.
There are several other reasons why boys go There are several other reasons why boys :ne sav that we boys know many farmers who Treat their boys right, and we greatly admire such
name and envy his lucky boy. And, although the other kind does not understand boys as he might, he is usually a fine fellow, anyway. Every
boy spok, himhly of his father. Around too many
farms there are story-hooks. I advise farmers to light the fir with such trash, and get the boy something to
read that is sensible, like " The Farmer's Advo forming and how to make money at it.
THEF IROY WHO IFITT-AND CAMF, BACK.

## HORSES

Clydesdale Certificate of Service.
os has arriver stallion service Il as owners of Clydesdale stallions, should remember the changes in the regulations governing were made last year In order to record young animals in the Cana-
dian (llydesdale Records, it is now dan rlydesdale Records, it is now necessary to lificate of the service of the dam, signed by the Nner of the sire at time of service. This cer-
tificate may be furnished simply in a written letier, or the common transfer blank may be filled
in as a curtificate. Probably the more common phan will he to give the certificate as a receipt
ior survic. fee. It should not be forgotten that the service
stallion must be recorded as the property of the owner before his certificate of service can be ac-
cunted. Very often this matter is neglected and "then the animal has changed hands several times the situation becomes very difficult to straighten out. becomes very difficult to straighted

judge - - ill, in addition 10 rumning his eye over the various points mentioned, see that he stand
even and firm ou his feet, which, in some horses are inclined slighly inward. To be the least in
clined outward is a bad faul, and one which gets clined outward is a bad $\begin{aligned} & \text { worse with age. As regards the hind legs, }\end{aligned}$ glance will tell if they are all right with the animal, and hocks close to each other, and the fe
at the proper place for supporting the weight at the proper place for supporting the welght an mal the fullest power for the use of the hind leg in which lies nearly all the propelling power. In walking, the horse should, iriap and with you, come with his head stride, lifting his feet an apparenty meand and placing them down again regularly, evenly, and with apparent deliberation be On a side view, one can and hind action be in
even-i. e., if his fore and even-i. e., if in horses with long backs and weak
unison-for, in hor loins, the two ends seem to be under different
control, and the hind legs, being in a manner control, and the hind legs, being in a manner
dragged with the toes along the ground, an unpleasing effect is produced.
In going away, at a walk, a horse should plant his hind feet forward as deliberately as his
fore ones, at the same time raising and bending fore ones, at the same which should be evenly carried forward. If the hocks are turned out in moving them forward, the action is not good; and a ly bad fault in either horse or mare. legs
cesingly
In trotting, the horse should bend the at the knees and hocks, and from a hind view the inside of the fore hoofs should almost oe seen ae
every step. If the animal be inclined to move every step. If the animal be isily be discovered
wide behind, this fault will easily THOMAS DYKES.
at the trotting pace.

Sterility in Mares.
Sterility, either temporary or permanent, is
uncommon in mares. It may depend upon ot uncommon in mares. It may depend upon
physical or organic causes, and may cause permanent barrenness. Of course, hermaphrodites will
not reproduce, and monstrosities and hybrids selnot reproduce, and mis article we refer to mares that are apparently normal and healthy. Mares
that have been used for work until they have be that have been used for work until they have be-
come old, and then retired to the stud, frequentprove infecund; or mares that have bred when young, and then allowed to reach an adwhanced age before being bred again, will of tem fail to reproduce. The infecundity in these cases is
probably due to the genital organs having lost probably due to the genital organs having lost their pow
Nothing
the organs.
Change of climate, in many cases, has a tem Change of chimate, in mases a permanent, influence porary, and in some coses a permanent, indity. In most cases this influence disappears in a few months or a year.
Bad hygiene may also cause sterility, but this Bad hygiene may also cause steriity, but thi tions. Underfed or overifed mares do not breed with the same regularity as those in moderate
condition. This is especially the case with very condition. This is especially the case with very
The means of removing these cause fat mares.
of steritity are orvicious. mares do not breed with the same regularity as those of a quiet, gentle
disposition. It is claimed by some that, with mares accustomed to work, active exertion, ever to produce fatigue, before being bred, is favorable to conception. The Arab often gallops his mare
for a long distance, then breeds her, and allows for a long distance, then breeds her, and allow
her to stand at rest for several hours. Diseases or, alterations of the generative organs as the ovaries, Fallopian tubes, uterus or vagina
will prevent conception. When these diseases be will prevent conception.
come chronic, they usually cause permanent sterility, although they do not uppalnny in other
with the mare's comfort or usefulnes in respects. In fact, such diseases are often presen and the only circumstances that picion of their presence is the accurring either too frequently, or at too long intervals, indicates dis-
ease of the ovaries; but disease of the other organs of generation, and in some cases even of the gvaries, sufficient to prevent conception, may be
ove present, and, at the same time, the periods of
ecestrum appear at regular intervals, and nothing estrum appear at regular intervals, and nothing abnormal can be detected, except as stated-a failez
ure to conceive. It is seldon that treatmint for suspected disease, as above, is successful.
Toubtless, a somewhat common cause
Toubtless, a somewhat common cause ster ility, especially in nervous mares, is a spasmodic
contraction of the opening through the neck of the womb (called the os uteri) during the act of copulation. This, of course, prevents the entrance of the semen into the uterus. Mares in
which sterility is due to this cause may be artificilly impregaated. Artificial impregnation can be performed in different ways. The most popu-
lar method is, probably, as follows : A rubber lar method is, probably, as follows: A rubber
capsule and a syringe especially designed for the capsule and a syringe from dealers in veterinary
purpose is purchased forme
instruments. The syringe is immersed in a warm. inntruments. The syringe is immersed in a warm.
sterilized solution, as a two-per-cent. solution of

## copulation

copulation is then performed. Whe
completed, the capsule containing t
removed,
syringe, care being taken that the temperature be
not reduced. Unless the act is done quickly, it is wise to immerse the capsule in the warm solulis hand and arm, introduces his hand into the vagina, and inserts the nozzle of the syringe
through the os uteri into the uterus, and then through the os uteri into the uterus, and then shoves the piston and forces the contente to impregnate
syringe into it. It is possible to several mares with the result of the one act of ocstrum
Probably the thest common cause of sterility is a chrobably the most common cause of stosure of the os uteri. In all cases where mares repeatedly fail to conceive, it is wise to examine the os. This is done by inserting the sterilized and oiled hand and arm the vagina, until the fingers reach the os. In normal cases, one or two fingers can be easily passed through the os into the womb,
but when there is a chronic closure, the opening must be dilated. This can often be done by a
rotary motion of the finger, with considerable pretary motion of the finger, In other cases the finger has not sufficient strencth, and a blunt sound, about the size
of a catheter, or a piece of perfectly smooth of a catheter, or a piece of perfectly smooth
hard, tough wood, or an instrument especially dehard, tough wod, or an instrumed dilate it. There
signed for the purpose, is used to dilas growth sur
are cases in which there is a fibrous
justified in assuming that there is some chronie isease of the generative organs that cannot be

## LIVE STOCK.

## Color of Shorthorns.

Coles of shorthorns held of tate there



Royal Albane (8366]
 Champion, Ontario Horse-breeders' Exhibition, Toronto, 1909. Exportrait extant of rounding the os, which prevents its dilation, even have descriptions of him by some who had seen with the instruments named, and it is necessary he anrmat, and we about the neck and shoulders. better to allow the mare to remain barren. When Uomet (of whom we have a good portrait) Now, the os has been dilated, as described, ef hours, it is a remarkable and interesting fact, to which and then bred. is an acid condition of the vagina and uterus, and Shorthorn breed, both male and female, have be that what is known as " The Yeast Treatment" of this pattern. Such was more especially the
will be successful. This consists in adding to an case in the earlier days of the breed, but we see will be successful. This consists in adding to an case in the earlier days of the breed, but we see
ordinary yeast cake sufficient water to moisten, it even in the most recent years. Let anyone ordinary yeast cake sufficient water and and anderate temperature. Then add, with brisk Shorthorns, from the days of Colling until now, stirring, a pint of lukewarm, recently-boiled water, and I think he cannot fail to be struck by the
and allow to stand 8 to 12 hours. It is now number of them that are of a roan color-generready for use. During the early period of oustrum ally, indeed. of the true Favourite pattern-that this fluid should be heated to about 100 degrees is to say, lightish roan, with more or less red Fahr, and injected into the vagina, and a little about the head, neck and shoulders. Pure, solld
into the uterus. The next day the mare should reds are few in number-much fewer than pure be bred. whites. Infortunately, there are many obscure and un I.et me run over the names of some of the the general appearance of the animal is healthy most important animals of a roan color, begin and a manual examination of the organs reveals a the great herd matron Princess, with her light normal condition, and, at the ssme time, repeat al ran danghter Fliza, both very prolific cows, and

MARCH 11, 1909
families. Princess herself was got by Favourite, and her dam, also. was a son of Favourite. It
nomenon 491, who
ill thus be seen to what an extent the early Shorthorns were along with Comet and Princess, Favourite,
may truly be said to have been the source from whence have come all the finest early specimens ling's excellent bull Wellington 679, who was got blood, which did so much to improve the Duchesses; and Duke of Northumberland 1940 , which Bates thought to be the finest bull he ever bred. was, of the true Favourite pattern, and so was
that of Cleveland Lad and others I am about to mention, viz. : The Marquis of Exeter's Emperor Belleville, the Baron of Ravensworth, Buchan Hero, Satlite 1420 , Towneley' Fairfax,
Frederick 1149 , and Master Butterfly : also Cul
shaw's favorite cow, Barmpton Rose, Earl Brownshaw's favorite cow, Barmpton Rose, Earl Brown-
low's Victory, Wilkinson's Will Honeycomb, also his cueen's whose blood has regenerated the modern Short (whoss), likewise his finest cow, Queen of Trumps
 bulls, Crown P'rince 10087 , and Commander-in Bracelet, Bridesmaid, Queen of the May, diere and Lady Fragrant: Wiley's bull,
llunck, Barclay of Ury's best cow lady Sarah, and her dam, Mason's Portia; also the principal A
bulls, Mahomed 6170 , and The Pacha 7612 . A Sittyton, the most importunt animals and most successful breeders were of this roan color, finest Fairfax Royal and Forth, who were the two finest
looking : Lancaster Comet 11663 , Champion of Fingland 17520, Roan Gauntlet 35284, Grand Monarque 21867, Scotland's Pride 25100, Prid of the Isles 35072 , and plince , remarkable breeding matron, Irincess Royal (dam of Roan Gauntlet), and the beautiful cow, Violet's Forth, which
went to America. In the old Upperinill herd, 1 need only mention Marr's finest animal, Heir of cows from whom he sprang, also his bull, Cherub 4 th 33359 , of the seme hlood. I must also not omit Coneaght the celebrated Bates bunl, $4,500 \mathrm{gs}$. He, too, was of this light-roan color, as may be seen by his portrait in Mr. Sinclair's book, at page 338 and Sir Arthur Ingram 32490. To come down bred bulls, Clear the Way 47604 , Cayhurst 47560 , Field Marshal 47870, Scottish Archer 39893, Wan derer 60138, and Roan Robin 5i992-all splendid animals, and sires of renown. Also mario 51713 , Star of the Morning 58189, and Pride of Collynie 75248 This last-mentioned, beautiful animal is just or the real Favourite pattern to a T. (see the por-
trait in Sinclair's book, page 448). Then we trait in Sinclair's book, page the King's Roya
have other such notables as the Kin willis' Iuke 75509, New Year's Giit 57796, Mr. Willis's Count Victor 66877, Bapton Diamond 78289, Bap ton Favourite 76080 , and liapton Champion. Morn ing 64546, and Fascinator 88569, the last men tioned bred at Jackston, as were also Choice
Goods 76350 , and Royal Fmblem 82154 , of the Goods 76350 , and Royal Fmblem Gilmour's great same roan int, and
beast, Royal Archer 82127.
Rul, not to weary the reader longer with a
striny of names, I shall conclude with two of the most recent notables, nemely, Linkstield Champion 86401, and Chiddingstone Malcolm, both of them still repeating the light-roan pattern of Favourite,
with the red about the side of the head neck shoulder. This constant reproduction of the peculiar roan
color of Comet and Favorite in our best Shortcolor of Comet and Favorite in our best shor some importance in regard to the action of heredity. Those 1 have mentioned are merely a selection from a multitude of similar specimen in Cur finest animals should surely make breeders pause in their hankering after red, and, I hope, may even induce our foreign customwrong track in so Lo see that they are on the wrong track-IT
persistently running after that color--T
Jamieson in English Live-stock Journal.

Charped Corn for Crippled Pigs. vour issue of February 25th, G. D. S. asks remedy for crippled pigs. I think, if he would ear-corn and burn it in the stove until it is charred, and feed the pigs this for a few
he would find it beneficial. I have tried it a he would find it beneficial. I have tried it a many times, and never inside of a week
them on their feet again in
R. H. RAYMOND.

THE FARMER'S ADVOCATE Simple Pigpen Plan.
Editor "' The Farmer's Advocate in ."The Farmer's Advocate," for plans for pigpens, and 1 am send-
ing you a plan of my pen, which was built in ing you a plan of my pen, which was built in
1900 . The pen is 42 fect long by 14 feet wide, and 9 feet to eaves. It is built on a stone wall, and the floor and troughs are made of cement.
There are four pens. Numbers 1,2 and 4 are each 12 feet by 9 feet, and number 3 is 6 feot by 9 feet. There are doors between each pair of pens, and also a window on the south side, large clean out pens. $\begin{gathered}\text { plenty of } \\ \text { Numbers } 1 \text { and } \\ 4\end{gathered}$ second window. Pens number 1 and 3 have doors going into yard, and the doors are high enough up to admit of loading into a wagon from them.
There are two slepping berths, marked in
The level, and are huilt on the partition dividing the pens, and extend three feet over each pen, and a
slide (S) six feet long and 20 inches wide, with Slide (S) six feet long and 20 inches wide, with
slats across, is used for the pigs to go up. Slats across, is used for the pigs to go up.
The berth between pens 1 and 2 may be used from either pen when convenient, by simply clos-
ing the door at top of slide $S$, and carrying slide


## Mr. Jackson's Pigpen Plan.

around into the other pen, and hooking it on and opening door on that side. This arrange-
ment of berths gives all the floor room for use of hogs, and allows the trough to go the full length of the pen, except where the door fro
feed alley goes into pen 3 . The foed alley is feed alley goes into pen 3. The foed alley feed box (F B) 30 feet long and 18 inches wide,
with partitions, runs along feed alley on side next with partitions, runs along feed alley on side next
to wall. The floor has a slant away from the to wals. enough to carry all the drip away, and


Elm Park Beauty 3rd - 1627-, 94697.
$\begin{array}{cccccc}\text { Aberdeen-Angus heifer. Grand champion Angus female, Toronto. } & \text { (1907, } & \text { and Ed } \\ \text { Ared }\end{array}$ Aberdeen-Angus heifer. Grand champion Angus fenat
monton. Dominion Exhibition, Calgary, Brandon an
floor, and is supported by 4 blocks of cement opposite each partition. In summer-time this
opening between sill and floor is left open to let in a draft, and to let slush out in winter closed by letting down a dap on the outside. This pen is satisfactorake very little if any change. Addington Co., Ont. ELMOR JACKSON

## Best of the Four.

My husband has been taking your paper and , but, owing to extra expense in our amily, we felt duty-bound to drop all but one. and, having duly considered the matter, we decided on continuing to take "The Farmer's Advocate " and give up the other three papers. Therefore, you may form some idea of how high ly we value each number of your paper.

A Profitalble Lot of Pigs.
ditor "'The Farmer's Advocate ":
In compliance with your invitation to those having compliance with your invitation to thos paper with them, 1 submit the following

$$
\begin{aligned}
& \text { Nov. } 15 \text { th, seven Yorkshire pigs } \\
& 6 \text { weehs old, } \$ 1.75 . . . \\
& \text { Nov. } 15 \text { th, } 1,110 \text { ibs. middlings, }
\end{aligned}
$$

$$
\begin{aligned}
& \$ 22.00 \text { per ton lbs. middlings, } \\
& .960 \text { an. } 96.96 \\
& \$ 2200 \text { per to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Jan. } 9 \text { th, } 860 \text {, } 82.00 \text { per ton ................... } \\
& \text { Jan. 9th, } 500 \text { lbs, corn, } 68 \text { cents }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Jan. 9th, } 500 \text { lbs, corn, } 68 \text { cents } \\
& \text { per bushel } \\
& \text { Jan 9th, chopping } 500 \text { lbs. corm, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { per bushel } \\
& \text { Jan. 9th, chopping, } 500 \text { lbs. corn, } \\
& 6 \text { cents per cwt. }
\end{aligned}
$$

$$
\begin{aligned}
& 6 \text { cents per cwt. } \\
& \text { February } 23 \text { rd, sold } 766 \text { lbs. } \\
& \text { pork, at } \$ 8.50 \\
& \text { Profit }
\end{aligned}
$$

$\qquad$

Keegarding these accounts, 1 might say no ac"were feeding quite a number of calves at the time. drink of skim milk. They were farrowed on October 1st, and when three weeks old they were ceeding in a separate trough, set where the sow wean they were ready to go right on and feed, and I do not think they ever lost a day. The
pen was cleaned and bedded regularly, as 1 think a pig, to do its best, should be kept dry
they also had a yard to run in when and clean. They also had a yar of these pigs at it was not stormy. The price of these pigs at
six weeks old was taken from what pigs were
selling for at that time. Of course, these pigs selling for at that time. Of course, these pigs
may be considered too light to be slaughtered, may be considered too light to be slaughtered,
but 1 am of the opinion that the first one hunbut 1 am of the opinion that the first one hun-
dred pounds is put on more cheaply than any indred pounds is put on more cheaply than any
crease after that. I think that, with an allowance of roots, the cost of feeding could be
still further reduced. I do not think you can still further reduced. I do not think you can
impress too strongly on the readers of "The Farmer's Advocate, 'the importance of keeping separate farm accounts. Then a person has the
satisfaction of knowing which branches of farmsatisfaction of knowing which branches of farm
ing are paying him best.

Sheep Quapantine Regulations.
ditor "The Farmer's Advocate"
th of February, re garding that in-
jurious-to-trade re striction imposed by striction imposed by
the United Statoe Government, there is room for the unsuppose that the suppose
sheep-breeders as a
whole body were in whole body were in
sympathy with the sympathy with the
petition you critipetition you criti-
cised. Kindly permit me to let your
readers know that readers know that
such was not the such was not the
case. In fact, it would be scarcely
possible for the swine-breeders to
more strongly conmore strongly contion than many of
the sheep-breeders did. Th he latter
body do want the restrictions removed,
if it can be done by fair can beans. But they Yair means. But they
do not want it bad-
ly enough to ask ly enough to ask
ior the removal of or the removal ol or protection of one ive-stock industries, in order that our own interests should be advanced at the expense of the other We know of some who had a copy of the petition
sent them for obtaining signatures. Before reading sent the quickly-passing opportunity to obtain a couple of names one evening was seized. Later the document (when read in full) was return che sender, and clear-cut language,
demnation, was forwarded therewith
On meeting one another in Toronto, before gathering at the annual meeting and discussing the situation, not half a dozen voices could be heard in approval of the ill-fated document. And
the fact of its never being presented to the meeting, and only a passing reference being made to it during the two long sessions, should have been a clear indication to
of how the wind blew

It is a question of honorable citizenship which is at stake; and when it comes to that, the sheep-breeders have no reason, as a body, to
lower their heads in shame. We can, with pride,
point to the doings in the outside world, in the way of advertising our Province and Dominion.
And we are not now going to lower our dignity And we are not now going to lower our dignity
by endorsing the effort to obtain gain for one hy endorsing the effort to obtain gain for one
body by seeking to bring disaster to another. Cost of Shropshipe Registration. we are asked to give the cost of registering Shropshire sheep. The Canadian Record for Shropshire sheep is affliated with the American
Shropshire Registry Association. Each animal is Shropshire Registry Association. Each the Amer ican Shropshire Record as well, and the Nationa Record Office issues Amerion certificate The fees tration as well as Canadian certifcate.
charged for both registrations, if application is sent to Ottawa, is the same as for American registration if the application is sent to the American office. Registration fees are as fol lows:
TO MEMBERS.-For each pedigree recorded
before December ist of the yar following the before Deccmber 1 st of the ysar following the
year of birth, 50 c .; if recorded after date menyeared, each registration costs $\$ 1.50$. Registra
tion tion of sheep imported from areat if of date of im portation
charged.
charged.
TO
NON-MFMBF.RS. $-\$ 1.00$ for American or sheep. Membership, fee is as follows:-To
Sheep-breed ${ }^{\prime} \mathbf{r s}^{\prime}$ Association, $\$ 1.00$ per year; to Aheep-breedirs Assopshire Registry Association, $\$ 5.00$ life membership.

Whole Grain for Hogs
Editor "The Farmer's Advocate '. The Farmer's
I take six papers, and find Advocate," to be the best farm paper. $\begin{aligned} & \text { Being } \\ & \text { situated in the corn belt of Kent Co., Ont., where }\end{aligned}$ situated in the corn belt of Kent co., of corn per
we produce from 75 to 125 bushels of
acre, and 30 bushels of peas, we find hogs to be the best paying proposition. Hogs are very lit the trouble if grain is fed in its natural state.
do not approve of grinding the grain for hogs. do not approve of grinding the grain or years, ex
have been feeding whole grain for ten yed cept when experimenting with mixed grain
chopped. At present we are feeding 75 hogs on
ond a mixture of oats, peas and corn, wanner do n
clean water. Hogs fed in this man
Holed pile up when sleeping, and are not affected the cold. The Berkshire an
make a very profitable hog.
$\qquad$

## THE FARM.

What Draws the Lightning In reply to an article in your journal of leb.
1sth in reference to damage done by lightning, 1Sth, in reference to damage done by lightning,
and the matter of protection, I would say it is
I and the matter ory man to give the matter his such danger and loss is not an idle question trion.
day In reading ower the Haiton Mutual Fire in-
In surance fiftypane claims paid, forty-nine were for damage done by lightning. homes from danger
In order to protect our hones and loss in a thoroughly scientific manner, it is edge possible about lightning; we should recog nize the fact that every ellect hishtning striking the various objects we see from time to time. I
claim it is purely a matter of location, not one of clairm it is purely a matter of location, not one of
attractive influence on the part of the object struck. lightning passes on after striking the object to a point the point of attraction. Now, there is a cause for that point of atraction ex-
istine. not only during electrical storms, but at in saying that springs flowing beneath the earth's surface create a power to attract lightning; and in so far as my experience gors, I have yet to
find that building, tree or animal struck that was not situated over a spring. I have recognized
not
the fact for vears : therefore, I claim that there
 themes. should. by all meanse. bo protected in the " Tinmos will "wot permit of ent ering fulls, into ther wat ore or mantrial hest suit od tor protection, and Trust vour renders will heomen more interestect in Hrouich lieht ming shit inm confent such loss

THE FARMER'S ADVOCATE

## nother Plank Frame.

## for -The Farmer's Advocate '

$\qquad$ uts of plank-frame barns which appeared in your aluable paper from time to time, and it appeing
there are others who are looking for something cheaper than square timber for barn frame. As we have just completed a plank-frame barn this
winter, 50 feet by 90 foet, end drive, with hip winter, 50 feet dy 90 fort, en anything I have noticed in your paper to date, I thought a change would, perhaps, not be out of place, so de you
will allow me space, I will endeavor to describe will allow me space, I "ill enceavor will notice

he way the bents are made. You y the cut that we have four posts and a bea onnecting them in each ber fors, with 2 -inch space between. Mow beam consists of two planks $2 \times 8 \times 18$ ft. long, joingd to outer post with a | non about $3 \frac{1}{2}$ feet long, elm, into beam. Inner post made of three planks |
| :--- | $2 \times 8 \times 14 \mathrm{ft}$. long, spaced, extending up into mow heam 4 in... or half way up into mow beam and olted. Overtay or cencer enting on of inner post, which forms a lap, with mow beam of two or more feet, according to length of plank, which is also holted. Purline post, starting the center plank of inner post, and running it up through now beam as far as it will reach, bolting it to mow beam. This piece I call a filler. Now



Unstrating Plank Frame of Mr. McDowell's Illustrating Plank $\begin{gathered}\text { Frame } \\ \text { Barn. }\end{gathered}$
long, one on cither side of filler, and bolted so curely. This formed the purline post, except twe side of filler, and extending into inner post and borted. Purline brace will fimish one bent; pur
line brace starting in outer post 7 fuet from floor extending through mow beam and on up into purline post about a line post. This brace in our frame is athout 23
fect long, and as we had nothink longer than 18 feet, we butted a short piece at the bottom bi
 beam. For plates we used same size material;
for main-plate spiking, iwo planks on top of posts, breaking joints. our bents are 15 feed apart, and we placed a plank avery
support to the plate. Purline phate is as a
trourh shaped onc plank on side of post and on trough shaped, onc plank on stas on tan li.. used it the ordinary way, which, I think, is one advan
tage over truss frame in using slings. For lira ing endwise we used a long plank sized into pos
 The bents seng whir bracints The sur ina

 rimpled her wem nome nand stad. and sumat
$\qquad$
o work of framing, one carpenter with three
oilling helpers, of any kind almost, can build and illing helpers, of any kind almost, can build and put up a barn like ours, with seven bents, in six
days ready for the rafters, and I think I would days, ready for the rafters, and I think i would
undertake to do it in less time; and as to raising, we raised our frame without any help, with the assistance of a homemade wiondass, some ropes
and pulleys, with the exception of one truss bent, which we have in our straw mow. We had to call four or five of our neighbors to help us with
that, after we had it half way up or more. The that, after we had it half way up or more. The
hents with the beams are very easy to raise, as they are not top heavy. With the homemade contrivance we had, I Con is someone to connect it

Solving the Labor Problem
Within the last number of years, furmers in Onrio and the other Eastern Provinces have found the farm, and in some places men could not be ad at any price. The opening up and settling Manitoba, and the other Provinces to the unfortunate occurrence, as men prefer, from the great inducements set forth, of the cheap land to be had, and the fortunes accumulated in so short master and take a hired man's place on a farm in the East.

Farmers' sons, when they become large enough ohand be some department of the farm to should be given some look after, and manage as their own, and also the money acquired from the profits obtained from the same, thus encouraging improvements which they may suggest In this way, we whelfare of the home, and it would go far towards retaining them on the farm, and also resur in the seat improvement of our
The Government's immigration policy is doing good work. Inquiries are made among the farm-
ers where help is wanted, and men are sent out from the motherland to work for them. In most cases these men have made very good workers and desirable citizens, but,
to retain them with us, they will, in due course, mabark for the West, also. One way 1 would suggest of accomplishing this is (and perhaps it wage for the first vear, and, if he proves satisfactory, agree to share some of your profits with
him, also, or induce him to take a share in the luild him a suitable house tolive in: so that he tented to live here. Nalmost any farmer, is the use of larger an
wider-working farm machinery $y$ and, instead of
on using two-horse implements, which are now em
Hoyed, use four horses, as, with a little practice,
, it inst as cass to hancile ic four-horse team as it is two horses ; and one man can do the work ng work during the harwest smason. the labo 13y the adoption of these three methods, where needed, we farmers in Ontario and the East would be more able to cope with our extensive
$\square$
Vitality of Seed
I will close, said (: Michaud, in his paper read
hefore the 'anadlian Seed-growers' Association, ast month, by reiterating the necessity of testing of the already mentioned strong individuality of he seed. Should every kernel of a handrul of any feight, even contain the same number of similar mis, and have the same physical and chemialy Wave the same vital energy, the same affinity for ain specific diseases, or against any causes af(i) nlatity and vital energy.

Harsust it when well matured. lirecont mechatrical injury bo handling
(11. and ans carefully as possible.
shore it in a coot, dry place.

[^0]Save Algoma's Timber. Editor "The Farmer's Advocate": I have read with great interest the different
articles in your valuable paper on reforestry, and articles in your eapeclally interested whlle reading that of W. J. Westington, in your issue of Fub. Ith
where he mentions the efforts being put forth to reforest parts of Hamilton and Haldimand Townships, and where he speaks of the trout brooks, along the banks of which, thirty years ago (being then more or less timbered), wandered, a barefooted boy, with my hook and line, catching the speckled trout. My father helped to remove the timber from those barren hillsides of which Mr.
Westington speaks, and it seerns but yesterday Westington speaks, and it seerns but yesterday
that I heard him speak of cutting and hauling that to build the G. T. R., which rutis along Lake Ontatio, and how he helped to clear up his farth,
and that, going to logging-bees when he was a oung man, which means that this very section was mostly well timbered seventy years ago, and
now it seems efforts are being made to restore nature. now living on st. Joseph Island which contains about 90, ono acres, 75 per cent of which
is timbered land, and there are still thousands of is timbered land, and there are still thousands of
acres of hard maple, birch, elm and basswood acres of hard maple, hirch elm and wasswood
which have not been culled. Why not make an which have not been culled. strong, Colonization Agent for the C. P. R., ad-
dressing a meeting in the Town Hall, Jocelyn dressing a meeting in the Town Hall, Jocelyn
Tp., St. Joseph Island, told us we were destroyTp., St. Toseph inard haod, cutting the best trees for firewood. "Saving 25 cents in ", abor, that was the
ing $\$ .00$ worth of timber," ar's Advocate,")
lirst voice (save " The Farmer's first voice (save ". The Farmer's Advocate") have heard in Algomatinterceding clear stuff, in cluding more or less hird's.eve, is being hauled eight miles for mere wages, the timber itself, up
to the present time, being considered valueless. This culling, of course, encourages fire, from which
The had a visit last fall. If the people of Al
whe This
we had a visit last fall. If the people of Al-
goma realized that what they are printing was goma realized that what they are printing was
true, they, I am sure, would call a halt, but
hat unfortunately, very few of them take" The Farm
er's Advocate." There is an old saying, that an ounce of prevention is worth a pound of cure,
and I think the Government would be wise in cir culating literature among the settlers in timbered districts, educating against fires, and especially to stop usnless destruction, which I have witnessed all around me in Algoma, and which has cost me
very little thought up till the time I began studying the matter in the columns of " The Farmer's and
Adrocate." I I do not wish to take up any more
space, as I am a ware (as a neighbor said to me space, as I am a ware (as a neighbor said to me
one day after I had given him a copy of your paper to read) that "It is all high-class reading
in - The Farmer's Advocate," and mostly written hy more able correspondents than I . But I have decided that we have in the timber in Algoma
an asset worth protecting, and I hope to have your assistance in the matter.
St. Joseph Island, ()nt. F. CROWDER.

## Government Bounty on Sparpows

Allow mo a little space in your valuable paper as I have something to suy in regard to doing
away with the English sparrow. The sparrow is
and not a useful bird, neither is it noted for its beau
tiful song. Everybody dislikes the single "chirp." chirp," they have during the long summer
wonths. They are real enemies of the other birds, such as the gray-bird, swallow, canary, humming-bird, bluejay, etc., because of their do-
struction of the cegs and nests of these useful
birds hirds. They are a m
cause of their carrying Cause of their carrying weed secds
place and dropping them where they will grow
The sparrow will not be missed because of its cating rrubs. The other birds, especially the grav-bird, swallow and canary, would certaint
become more numerous, and they would eat the
urulic rubs. Nore than that, how much sweeter and
more checring it would be to hear their harnonious songs pouring forth ? Canada or the
There were no Unitece were no sparrows in canada or the big boats came across from lingland about fifty years ago. No doubt
Ciod created these lively birds, but that is no
It would rason why we cannt destroy them. It would hey can be greatly and casily thinned out if the somment would put a boury ing their, nests in the towns and cities during the hatching time in the sping. The farmers could also aid greatly out oi the barns during the cold winter months, esp. in the harns during the cold winter months,
when it is zoro weather. The farmers
and esp
shomly when bat the birrss out of the stravs stacks
att usemt article to have on the farm, and should bo
nown frows
FARMER.

THE FARMER'S ADVOCATE.

Time to Get Seeds Ready
ow is the time that farmers should be getting their seed grain ready for spring seeding.
This is a more important problem than many farmers realize, else more would have air this in the
done before the rush of the seeding time. In two or three weeks which are most favorable for seeding, there is no time to lose in preparing the
seed-bed and hiding away the seeds in the soil so that the best possible results may follow. so that the best possible results may follow.
The yields of all the spring grains decrease in yleldis per acre in proportion to the lateness Seeding after a certain time.
Where possible it wouid
Where possible, it woild be well if farmers There are quite a number of places where this couse be qone at a cost of possibly 5 cents per
bushel.
Here is it iline for co-operation on the bushel. Here is a line for co-operation on the
pait of farmers. They could club together and part of farmers. They could club together and
intistal a power fanning mill at some convenient

resident Ontario Duke, Ruthven, Ont.

A. McKenney, B.S.A., Essex, Ont.
point for all those concerned. A power mill will, "ith one cleaning, take out about 25 per cent, as
it comes from the cleaner, of chaff, light stuff, itc. With the ordinary mill, it would be required to put it through three or four times to when ready for sowing. creased vields of grain per acre. If a good fan-ming-mill selection were made all over the coun
try, I believe it would effect a yield which would bry, five bushels per acre greater than the average, and which, in most cases, would mean profit. On he approximately five million acres in field crops in Ontario it would spell an increase of, say,
$2,000,000$ bushels of grain. Such an increase would pay handsomely for the time involved in prepuring such seeds.
Not only should there be a good selection of large, plump seed, but, as far as possible, the seed that be pure. I ame glad to be able tor apert
are quite pure. In this respect, both the wholesate recleaned seed, and the best local lots set
aside by local dealers, are freer from weed seeds than usual. As a rule, the best seed a vailable in the trade
goes out first, so that there is plenty of time yet groes out first, so that there is plenty of time yet
for the presence of more or less impure seeds beng offered in the trade. The fear is expressed on all sides that farmers
re trading more than usual among themselves. It is a great mistake to do this with low-grade Way. In small lots, a practical way to separate ibgrass from red clover is to moisten all the seed with water, and then mix in some dry saw-
dust, which will adhere to the sticky coat of the ribgrass, and may be retained on a screen through which the red clover will pass easily. With proper varieties, well-selected seed, fine
ced-bed, productive, well-drained soil, and pure vital seed, there should be a marked increase o the cereal crops throughout the Province.

## Stable Absorbents

A serious waste of fertility occurs on many farms through volatilization of ammonia in the value of the manure applied to the land considerably increased by the use either of gypsum (commonly called land plaster) or ground phosphate
rock. Land plaster is one of the best stable abrock. Land plaster is one of the best stable ab-
sorbents. Sprinkled in the gutter, or scattered over the manure heap from time to time, it will hinder the volatilization of ammonium carbonate, and keep the stables sweet. Gypsum consists of
sulphate of calcium, and, as a direct fertilizer, is of very limited value. It is most sultable for crops such as clover and turnips, which require a considerable amount of sulphur. On virgin sails but as time passes the effect produced on this crop appears to diminish. Its best use, however, is for the retention of ammonia in stables. It may
be obtained through fertilizer dealers advertising be obtained through fertilizer dealers advertising over, in bags, of $\$ 6.75$, ex mill, Caledonia, Ont. Another absorbent, perhaps even more to be recommended, is finely-ground, untreated phos-
phate rock. carrying about 33 per cent. of phos phate rock, carrying about 33 per cent. of phoskeep the stables sweet, while, in addition, it adds
phosphorus to barnvard manure. As phosphorus phosphorus to barnyard manure. As phosphorus
is an essential element of plant food, and one is an is constantly depleted by our whole system of farming, whether grain-growing or the raising of stock for sale, the advantage of thus supple nure tecomes apparent Ordinarily, this raw ground phosphate-rock is a very tardily available fertilizer, and therefore slow in its action, but, mixed with barns that set free or render avail able the phosphorus in the rock phosphate. Thus, there is a double benefit, the phosphate rock add ing to the value of the manure by reducing the render the phosphate more quickly available. The quantity recommended is a pint to a cow in the butter twice daily, or 100 pounds to the ton when is the better way to use it. Raw, ground phosphate rock may be obtained for about $\$ 14$ per Consult our advertisers for quotations and further Cansult ou

## The Fertilizer Bill.

Editor "The Farmer's Advocate": 'CanThe commercial fertilizer business is, in Can-
ada, undoubtedly in its infancy, and, like many other iniants, is often misunderstiood. I have requently seen remarks made in the columns of agricultural papers, plainly showing distrust of therer. But those same manufacturers have a record of which they might be proud. To have the Governmental samples, by far the larger majority are
of some sampe
above the guarantee, and only rarely is one above the guarantee, and only rarely is one
found that actually falls below the leeway of one per cent allowed by the Act, is certainly high ommendation.
The remarks of Prof. J. F. Snell, in your is sue of February 11th, as to the proposed fertiizer law, are interesting and practical.
The provision for a payment of $\$ 20$ for The provision for a payment of $\$ 20$ or the
registration of a standard brand is, es Prof. inell says, likely to operate both directly and indirectly to the disadvantage of the consumers. The fertilizer companies are eager to foster any
experiments which may be made by their cus. experiments which may be made by their cus-
tomers, and this fee would act as a direct bar on such experiments.

Prof. Snell's suggestion that the standard numher remain the same for a particular brand from
year to vear, is excellent. I have already sugrested this. with the addition of the date of
manuarture.
The bill introduced last year forbade the dealer
to sell any fertilizer manufactured the previous would not have to draw the sap any iarther than year. If he were so unfortunate as to carry any necessary. 12 feet $x 24$ feet (which is large enough over, what would he do with it? Throw it out, for any machine under 14 feet long) and 6 -ft.
and thus lose possible $\$ 200$ or so of perfectly for good fertilizer, or in some way evade or deliber- walls. I had a large door in the end, where the
ately break the law. The provision, as it stood, fireplace is. and a small door on the south side; ately break the law. The provision, as at stor in also it small window in the south side. Then I the next act. in seking made a ventilator 2 ft . 6 in. wide and 2 ft high Prof. Snell, in seeking to make a sufficient in the peak of the roof,
charge for registering the various brands, forgets each corner, and that the 10 per cent. duty collected on foreign the rest open. so that the draft from beneath fertilizers, and the higher duties collected on some would take the steam out. Only a few boards


Gathering the Juice of the Maple
coal, sulphuric (such as bays, machinery, oil, were placed for standing on by the side of the which the duties average about 20 per cent.), is $\frac{\text { ith }}{}$ had the machine placed as low as possible more than sufficient to pay all the cost of the and close to the north side, leaving room to pass
fertilizer analytical branch oi the department.
b, ticen it and the wall. Then, outside, on the Indeed, the raising of the duty on American north, I had my storage tank placed on a couple fertilizers to, say, 15 per cent. might tend to ac of horses, made out of $2 \mathrm{in} . \mathrm{x} 4 \mathrm{in}$. scantling, and
tually lower the price to Canadian consumers. would encourage the building of a number of fac- for a rubber hose to carry the sap to the regula tories in Canada, whose competition would tend tor on the evaporator. I had to lift the sap 1o reduce prices, which are now regulated almost up to the storage tank from my gathering tank
entirely by the large American trusts. entirely by word to the farmers. Vise all the low, if you can imagine what imy old camp stable manure you have, and more too, if pos- was like-and it was very good to begin with-
sible, and also commercial fertilizers. There are 1 will try to tell you what my nell one is like at least two crops that it is impossible to raise it is the old one, in the old place, but I raise successfully without commercial fertilizers, and it up, built a wall under it, raised the machine
they are apples and potatoes.
put at cement floor in front of the fireplace and Furthernore, the highest grade is usually the under the ash pitt then raised the machine three


Satisfactory Sugar Camp
Satisfactory Sugar Camp. as about four or five feet deep. I shovelled the for in . Made the wentilat or full length of camp now clear from the ground a litlle larger than I would gather and make wers thing wet, and put (4)

Now, as to how i fixed my storage tanks: got two lot a foot inside of the side of the camp, and the other outside, and run the same way that
camp does, and connected the two with a hose. The end that is inside of the camp is just about one inch higher than the mouth of the regulator so that the sap can flow from bottom of tank inches higher, again, and the other raised abou the same slant, so I built a covering over each tank, leaving roon
 to allow plenty of fresh air. Then I made a
square stand, by using 12 -ft. cedar rails, so that square stand, by using $12-\mathrm{ft}$. cedar rails, so that
the top would be about a foot higher than the the top of the tanks; and a driveway on each side so as to drive up on this with my sap, and, with a spout to the bottom of ms gathering tank, the ing away with the labor and saving two men at that place. and dormb the work aster. Those who have suild at the bottom and make a driveway on the sidehill, to save my trouble. The boiling camp should be one building, and the wood-shed outside. If the wood is piled in the same house . will be all wet from the steam. H. A. BUCK
Frontenac Co Onl

## Steam Plowing in Ontario

 Will the steam plow become popular on East-ern farms? The orinion seems to have gained hold that power outfits for plowing are adapted the prairies of the West. While it is true that the expenses connected with operation are docreased in proportion to the size of the fields, it sider what minimum in total area to be plowed and in size of felds, leaves plowing by steam a paying proposition.
The scarcity of power outfits in Ontario makes it difficult to obtain many statements of details.
Figurcs given by A. Leitch, B.S.A., ager on Donlands Farm, York County, Ont., in
connection with the running of an engine gang plow ar

## 3 men 10 days at sen out S 80.00


 epreciation in plow ..............................35.00 $\begin{array}{ll}\text { Interest on investment in plow ................. } & 12.00 \\ 40.00\end{array}$ Interest on investment in plow
Proportion interest on engine with boarding man and team, and with wear and be admitted that on the ave considered, it will Canada the figures are not bevond the limit. On light soils, where a team can turn two acres per day, of course the cost would be reduced. On the same soil, also, the cost of plowing by steam Rewer
reding the use of steam plows, Mr. Leitch says: On large farms where large fields are the rule, the steam plow, in capable hands, has hefore it a great future as a labor-saving imple-
ment. Another advantage it has over the ordinary plow is that on account of its great weight we were able to plow the past season heavy clay land that, on account of the dry weather, it was
impossible to touch with the walking plow. This, of course, necessitated the continual sharpening of the shares, but even that added expense did not materially affect the cost per acre.
We used a 26 horse-power Abell engine and a ten-furrow Cockshutt gang plow. This past a ten-furrow Cockshutt gang plonv. This past
season, howeve., we used but eight of the plows, as some of our land was so rolling it was almost impossible for the engine to pull it up the hills.
particularly as the cround was unusually dry and particularly as the ground was unusually dry a d iourten inches, the share cutting the whole width
of the furrow. The plows can be regulated to oi the furrow, The plows can be regulated to unnerenness in the eround in adjusting the pors

 hi. -1.
though on account of the more or less unwieldy to the same tomperature as the serum by pronature or being left at each end of the land. "We make a practico of striking out lands with the walking plow about every ten or twelve onvenient.
"I might say, in conclusion, that we are very well satisfied with the outfit, not only with the quality of work done, but in the decreased cost of

## Barley Centers.

As a means for the improvement of barley cul-
ture in Canada, A. P. Mc 'annel suggested to the Canadian Seed-growers' Convention the desirability of having but a single variety grown in each locality. At present, almost every section has a
number of varieties, and these are mixed at the number of varietes, the experimg. The Experiment Staelevan of the University of Wisconsin, he stated,
tion has adopted the policy of breeding and testing pure races of barley, and growing but a single
variety in each district. These districts are called barley centers. Each center or county grows but one kind of barley, and the maltsters of that and other States are said to be willing
to pay a higher price for Wisconsin barley on that to pay a

## THE DAIRY

## Stop Churning Losses.

 of the many operations in the handling of milk or cream for buttermaking, there are those reason or another, but in the average creamerythe most serious losses are apt to occur in the the most serious losses are apt to occur in Naturally, the essentials to secure an exhaus-
and ive churning are many, and there is no rule to all reameries. Howstive churning are based upon similar conditions, even if they are arrived at under different circumstances. The first factor to
be considered in connection with buttermilk losses is the richness of the cream. Just how widd es is the richness in order to secure exhaustive churning, will depend to some extent upon the quality and acidity of the cream, as well as the 25 to 35 per cent. will churn in reasonable time at a sufficiently low temperature to prevent serious loss in the buttermilk. While these figures only represent an average with a range of 10 per
cent. between them, there is no reason why cream testing either limit should not churn out extesting either and, whereas beyond each limit it
haustively; and
is quite possible, under favorable conditions, to is quite possible, under favorable conditions, to get an exhaustive churning, yet the chances are
more remote the further the test varies from 30 per cent., especially the lower it tests. The time occupied in churning will be found to be closely
related to the exhaustiveness of the churning. related to the exhaustiveness of the churning
Cream that churns to well-defined grains the size of wheat kernels in from 30 to 40 minutes, or, to be more exact, in 35 minutes, will have a very
small loss in the buttermilk. small loss in the buttermilk.
great importance. An exhaustive churning can not be expected from a mixture of sweet and sour cream, especially when the mixing is done jus prior to churning; but if the miur of the fat in
time to equalize the temperature the different batches, and to allow it to stand at a low temperature for several hours before churn ing, then, any danger of loss in the buttermil
from this source is overcome. Good results can scarcely be got from cream that has not been stirred thoroughly in the process of ripening, in
order to insure uniform lactic-acid development. order to insure uniform lactic-acid development While acidity may not be considered by some cream can be churned without abnormal loss, it is an important factor in increasing the churn-
ability of cream, particularly in the case of ability of cream, particularly in the case of
thin cream, or late in the season, when the fat globules are smaller. Losses may also be looked ior if a uniform churning temperature be adhered
to. in spite of variation in the acidity of the Mram when put into the churn. Whunatility of cream It has been found that Whon thin and very sour cream has been pasF. the milk coagulates and berones insoluble, and. some of the fat being enclosed in the little lume of curd. it is carried off in the buttermilh (imhe other hand. pasterriation has no appric. "fiect upon the charnability on sweet creat.
nrovided that it he adequately cooled ior
ient length of time beiore churning, in Tent length of time beiore churning,
on thoroughly restore the solidity of th churning is proper temperature.
chust necessarily vary according
t
of the cream and the season of the
o the same tomperature ns the serum by pro-
onged holding at churning temperature, the need of this being greatest when cream has been pasteurized or ripened at a high temperature. In
connection with this factor, it is necessary to cool he churn before running the cream into it, so as 0 prevent the temperature of the cream rising oiten high after churning has commenced. Very Oiten, when a small quantity of cream is churned
difficulty is experienced in gathering the butter particularly if the cream be very thin or very particularly if the cream be very thin or very
thick. An overloaded churn is also bound to result in abnormal fat losses. In the early part
of the cummer, the churn may be filled rather less of the cummer, the churn may be filled rather less greater part of the year, one-third full is productive of best results., There is always a loss if the buttermilk be drawn off before the granules
are large enough, and overchurned butter is also a cause of high-testing buttermilk

## merhanical nature, such as the correct con



Combined Ice-house and Milk Stand. On farm of J. R. Anderson, Prince Edward Co., Ont
struction of the churn, and the maintenance of speed throughout the churning from start to fin-
ish, and especially when the crean breaks and the butter granules begin to adhere and separate from the buttermilk. A square churn provides suffcient concussion when run at a moderate rate of speed, and the same applies to barrel churns which revolve end over end, but circular or cylinspeed, or be provided with internal arrangements, speed, or be provided with internal arrangements, In the case of combined churns, concussion at rela-
tively low speed is provided by means of the ively low speed is provided by means of the
butter-working mechanism within the churn. A churn of ample capacity for any possible contingency is always necessary; it is much betar to have one too large than tho small. These tive churning, avail but little unless the buttermilk be tested daily. This is a very small matfer, and takes not more than five minuter to do, tain a representative test of the whole churning. The best plan is to stir the buttermilk in the vat thoroughly after it is all out of the churn, and then dip the sample out with a dipper. To esti-
mate the total daily loss, a good plan is to mark ines on the inside of the vat at the level of each


Mountain View Cheese Factory
the price, and equally as much in the average,
which would which would menn at the least calculation six dol-
lars for every thirty hundred of milk more than GARDEN 鰽 ORCHARD

Keeping Quality and Cultupal Methods.
Editor "'The Farmer's Advocat, ititics of apples
The question of keeping qualities of apples
grown in different districts has caused considergrown discussion since 1906.
there had been very little attention given to
scientific apple culture in Ontario. Trees of all scientific apple culture in Ontario. Trees of a
varieties had been set in all the apple districts Vartario. Very little spraying, fertilizing cultivating had been done prior to that time, all
which have a tendency to lengthen the ripening period. Localities vary so much that ripening period. Localities vary so meographical
it would be impossible to draw a ge line for any distance, and have the same conditions by the same culture.
want our orchards to pay well, we must fertilize and spray. This will, I consider, apply to all localities. Pruning will hasten maturity, and
cultivation will lengthen maturity; therefore, we cultivation will lengthen maturity; therefore, we
will have to study our conditions and our seasons, and cultivate accordingly.
Norfolk County is exoeptionally well situated
for the growing and maturing of the King, Snow, Baldwin and Northern Spy, for growers who spray; prune, fertilize and cultivate their orchards. Care, however, must be exercised in cultivating If the season is dry, cultivation should be exthe 1st of July. Under this management, our picking season is from October 1st to October 20th, and many years we get a sharp rece
the 23 rd of October: Many of our orchards in this county poor fruit has been packed and shipped out of hese orchards during the past few years, to the njury of the apple indus. This can be rectified by the enforcement of the Inspection and Sales Act, by having a county inspector for the period
of three months, at the expense of about $\$ 400$ per of three months, at the expense of about $\$ 400$ p
season.
Norfolk
The arrival of a bushel box of choice Northern Sies, grown in Norfals of the Norfolk FruitMr. Johnson on ons Association to the office of " The Farmgrowers' Association the claim that apples grown in that county possess superior "keeping" qualities, as ever was clearly "gone" within very ew hot this variety will rimain sound at least until the end of February.
 vas delicious. A tho was furnished. The apples were wrapped in paper, and neatly packed in the standard box, Mr. Johnson states that
$20 \times 11 \times 10$ inches.,
there has been practically no decay in Spies kept in common storage. The presentation furnished substantial proof that is greatly appreciated by

## Keeping Quality Improved by

 Cooling.With regard to the keeping qualities of apples grown in different localities, we find that, under
the usual conditions which prevail in most disthe usual conditions which prevain northern-grown tricts at as advantages which the same varieties grown in the southern counties do not have. This was demonstrated last year, whell we had an ex tremely hot, dry summer and fall, and apples of the earlier kinds, such as much earlier than usual. Given proper cold-
storage facilities, where apples can be cooled as
soon as they are picked, this difference is re soon as they are picked, this difference is IV
mo and a gentleman, from whom we bought a apples last fall, has the same experience.
Apling in the Niagara Peninsula ng reduced yearly. Many of those having chards on moving the apple trees, in favor of other kinds of fruit, but, in my opinion, a cold-storace equipment in connection with the packing of apples.
and particularly in the southern counties, is mosi and particularly in ine some packer to keep his desirable. and other early kinds in good shape
Greenings
until the later varietics, such as Spies, Maldwins.

It not necessary to go in for ice can ry easily operated, and at a very small cost

# Oo Grafting Fruit Trees. 

 A reader in Middlesex County, Ont, who orchard, writes for information regarding how and when to graft, and the composition of gratt-ing-wax. Since there are many orchards in all parts of the Province that could be made more profitable by judicious top-grafting
varieties, we give the important details. The method adopted and the time of year will have
to be governed by the size of the limb and the to be governed by the size


Chisel for Cleft Grafting, with claw for
plum trees and cherry trees early in the spring, before a start is made in wood growth or bud development. With the apple and pear, it is pos
sible to defer the work until late in May, or even early in June

GRAFTING EQUIPMENT.
The necessaries for work are: (1) A sharp,
fine-tooth pruning saw with which to make a fean cut of the limbs to be grafted ; (2) a grait

$\begin{array}{cc}\begin{array}{c}\text { Cleft Graft completed } \\ \text { a } \mathrm{a} \text { d thoroughly } \\ \text { waxed. }\end{array} & \begin{array}{c}\text { Single scion for Cleft } \\ \text { Crafting, and pair }\end{array} \\ \text { of scions in place. }\end{array}$

ing chisel, or, if this cannot be had, a common hisel, or even a large pruning knife, with which
o split and hold open the linb for the insertion of the scion; (3) a small mallet; (4) a ball of grating wax; and (5) a small hundle of scions.
Following is one of the several recipes for making grafting wax. Resin, 4 parts by weight; Beeswax, 2 parts; tallow, rendered, 1 part. Melt together, ami, pour into a pail of cold water,


Whip Grafting 1 lum or Cherry.-1)-Splice wade and
bevelled scion inserted. A-Splice graft wound bevelled scion inserted. A-Splice graft wound
with string. B- Splice graft waxed. C STiflice Scions are small cultings from hast smanen
growth, and should be prepatiod whill the wom growth, and should be prepmed whit, the wome
is stinl dormant sone time previous to the whe in bundles, and packell in carth of freh samdu
until needed. bearing trees of the variets or varimtios wantew mbe characteristios, much tan bur dome to than
 $24+5+5=4$
xtending from the tip back to the first ring or swelling. It may be long or short, depending on ions, age of tree, and rariety. Skill is required in two things : First, in mak ing the small, wedge-shaped cut of the scion
This should be done with a sharp knife, by single drawing cut for each side, so as to make it perrect wedge, the other, to insure close con tact. Then, while the split wood is held apar with the chisel, the two scions are put in place In tive second place, skill is required in so plac ing the and scion may meet squarely, and make a perfect union. When the scions are in place,
cover every portion of the cut surface of scion and limb with grafting wax, so as to thoroughly and limb with grathe drying effects of the atmos phere. Two scions are not really necessary at easert two than one, and thereby $t$ wo chances of success are afforded, while, if both live, it is a help growter to cut off one, leaving its stub to limbs several scions are inserted, the hark only being slit. No wax is required. After the scions are placed, they are held securely by neeans of string around the sawn-off limb, and an inch beyond the end. The basin thus formed can be filled with mud to afford protection to the surface until the wound heals.
In renewing an old tree, the gratter should not attempt to complete the work in less than cach ear, thus gradually transforming the whol top. As a rule, limbs about two inches in drameter are best for top-working, because the
wounds are quickly healed. Grafting the apple or pear may be done by
any farmer or fruit-grower who is at all handy any farmer or fruit-grower who is at all handy
in tie use of tools. In top-grafting cherry ard
plum trees, greater care must be exercised, as the plum trees, greater care must be excrcised, as the
wood does not unite quite as readily. For larter limbs, cleft-grafting is preferred. The method is the same as with apple and pear trees. hranches less than an inch in diameter, whip
grating is the usual practice. A splice is made on one side, only inserted. After tying securely and then bound over with muslin or other cloth

Planting Sugar Maples.
I would like to get your opinion on a point In regard to planting maptes (sugar). 1 can get
these trees free in all sizes, in a bush near-by hoors which the stock has been shut ior some ten nursery the ocher hand, 10 can get then frow the question is, would the increased rate of
rrowth of the nursery trees make it worth while to purchase them??
I notice nursery maples planted along the I notice nursery maples planted along the
streets in London, and they seen to grow much faster than ordinary scedling trees from the woods. Whether it is due to better root system I have forty or firty of these small trees, 6 to
feet hich, dug from the woods two years ago 8 feet high, dug from the woods two years ano finally transplanting them again. Of course, they will have some fibrous roots. What is your

[^1]"ant them for the sap.
Middlesex Co., Ont. Ans.-There can be no doubt about it that
"ell-grown nursery trees mahe more rapid growth
the frot fow years than the same kind of trees "ell-grown nursery trees mate more fars than the same kind of trees
the first few years to the
t.ahen from the hust.. This is largely due to the
l, teter roont development of the nursery trees, hetter root development of the nursery trees,
hrourht ahout by more or less frequent trans-
manting in the nursery. The plan you have atopted, however, of taking young trees from
the bush and transplanting them into nursery ons, would give you trees more like those grown ilanted are vigorous and thrifty. I would have no beause of saving in cost. lut because they may " time make quite as pood growth as the nur-
n. - grown troes. One thing which has to be rakin into considration in taking trees from the nited lows of hard and soft maples, whereas Thels the the of one kind. However, one who Wees should have no difficulty in this respect. Werlue, and the soil there seems to be parti-ular-


## March 11, 1909

Test Garden Seeds Perhaps in no other line of farm work is there
o great difficulty in securing a sound basis for so great as in that of producing garden crops. Any man can purchase high-grade seed for crops.
oats, barley, corn, or other staple farm cor clovers and grass solds may conte is of comparatively high germination percentage, and df the
In garden crops, it is different. oroper variety. In garden crops,
Not only are weed seeds likely to be found in Noty of them, but also is the number of germany or theds, frequently found to be extremely
mininable seed
low. Of the two deiects, the latter is the most serious. Gardeners can keep down weeds. Lack can very seldom be overcome in time to produce the desired crop that season.
The fact that gardeners so frequently are supplied with seed that is of low quatigh prices. The man who grew the seed may have sent the
hest he could grow, but it is possible that it best he could grow, but in in account of it having been brought from distant account, and necessarily retailing at high prices,
points,
the shrewd seedsman, rather than lose what seed the shrewd seedsman, rather than lose what seed
te has left over after a season's business, dethe fresh importation.
The grower, to protect himself, tries to deal
But, in order to only with reliable secdsmen. But, in order to
know how thick to sow his seed, he must know know how thick to sow his seed, he readily sprout and give a strong plant, under norinal condi-
tions tions. His only resort is to test for himself.
This can be done easily in the kitchen by a plate This can be done easily in the kitchen by a plate
and moist bloting paper, or between wet fannel
clothe on a plate. It is well to test several lots cloths on a plate. It is well to test several lot
oi 100 seeds each from every package, and to be low, thicker seeding must be resorted to. Gar deners can afford to destroy plants when they are
too thick, but in few cases does it pay to transplant.
The problem of wrong varieties is even more difficult to solve. The only remedy is to pur chase from reliable, established houses. Under strictest care and most periect system, it is pos
sible for varieties to become mixed. The mos sible for varieties to become mixed.
successful seedsmen, however, find few complaints successrul seedsmen, milling to make reasonable amends. Buy your garden seeds now, and make test
before spring opens.

## Fall Apples Profitable

 onsidera development and improvement in commercial apple-growing in Canada during the last decade. That ehereroom for improvement, all will agree, if they are at all farniliar with the subject. Like the dairy industry, it is not a very old one. It is within the memory of the presuit in this country Today, dairying is one of our most important industries, and Canadian cheese is second to none
in the world's markets. I can remember well in the world's markets. I can remember well
when the only apples available were the old seedlings planted by the first settlers. If any of these were marketed, they were shaken off the a heavy wagon. What a contrast to the present a heavy wagond now, in the matter of varieties and fine quality, Canadian apples are second to
none. Yet, though we have improved and developed along the line of fruit-growing until we are far from the standard to which we may atThe outlook, both at home and abroad, so far the surply is likely to exceed the demand. Canadian apples, like the famous hard wheat, have the attraction of high quatity oct recoll always create and fine quatity in any proact is often said-and truly -that we are growing too many varieties, and set there is roon for something new. For
tance, we need a first-class dessert apple of about the same season as the Duchess; and the man
who will originate one that will come up to the thark will confer a great benefit. It should be of ractive color and cloan, skin, not subject to funeous disease, and a tree that will ripen its fruit dirly good dessert apple, if fully maturent and tage. But at this stage it is not safe for long Mositiont. There suit the tastes of most people; and, it cannot easily be excelled as a cook-
comes far short of an all-round first-class apple. The Farly Strawberry is a well-
ed apple but like the Fall Pippin, it has
orated with fungous scal, until, generally, not marketable. The old ir rimate has fairly
dussert qualities. but it is too tender for
thut the most favered sections. nit the most favored sections.

THE FARMER'S ADVOCATE sert apple for this particular season, for basket with a hearty reception in the markets of the and box shipmen well grown, and properly handled. As an early cooking variets, for basket ship ments, I know of none better than Yellow Trans-
parent. In this section, it is the first that is fit to cook-and an excellent cooker it is. Anyone vang close to a railway station will find shipments; I would never ship it in barrels
Further, if anyone finds he has more trees than Further, if anyone furose he can easily change them over to spies by top-grafting. There is no better stock for this purpose. Some of the best Spy tops I have are top-worked on
Transparent. It is an exceedingly hardy, thrifty, For its season, for both box and barrel ship inent, we cannot well improve upon the Duchess
Its earlv bearine, great productiveness, hardiness ats early bearing, great productiveness, hat, places it without an equal in its season. And its shipping quality is such that, even packed in barres during hot weather, when shipped in well-iced re-
frigerator cars, it can be landed in any part of frigerator cars, it can be anded in any pas been proved, in the British markets as well. After
the Duchess, usually comes the Wealthy. But it is not a satisfactory apple to grow. When first
introduced, it was said to be a winter apple. How far it comes short of that claim, everyone knows. It is a September apple, and, while the
apple is of fairly good quality when matured, it apple is of fairly good quality when matured, it
has many faults. It bears carly, but the tree has many faults. It hears carls, but the tree of the tree matures first, and, if exposed to the
least wind, tumbles of, while the lower limbs are seast wind, tumbles ofl, while with immature stuff that is not marketable. This is one of the varieties that would require thinning of the fruit, but, as a


Home-making in Australasia

$$
\begin{aligned}
& \text { of our other fall apples, the dexander is a } \\
& \text { oood bearer, with no pretence to dessert quality, } \\
& \text { at is a grand cooker; nothing excels it as a }
\end{aligned}
$$ but is a grand cooker; nothing excels it as a sauce apple. The same may be said of the Wolfe River, but it is fully a month longer in season. Chink there can be no doubt of the fact that this grow. Ten in favor years ago I would not have said much in was not as promising as it is now. It has been proved several times within the last decade that in a year when the British Isles Kave a short landed in good sound condition, bring fancy' prices over there Then, we have every year the ever over there. Then, we have every year the ever-

widening market of our own great West, the possibilities of which we can hardly estimate or com for handling this class of fruit now than formerly and we are confident of still farther improvement in this line. Further, these varieties are hardy, hrifty and productive. Chief McNell, of the Fruit Division, is probably not far astray when
he says that the day of the fall apple has come he says that the day or the that may be classed as early winter apples, such as the Snow (Fa meuse), Blenheim Pippin, Baxter, and King
though the King, in the Georgian Bay distriat though the King, keeps well through the winter. I have them in my cellar now (Feb, 10th), quite solid and crisp; but the other three may be said to be at their
hest at Christmas. These three should be harvested best at Christmas. These three should be harvested
and shipped together at the same time. For their and shipped together at the same time. For then
season, I don't know the present. The Snow ís a universal favorite as Christmas dessert;
hen always a a good seller
hen and bright. This condition seems to condition seems to
be largely a ques-
a tion of thorough
pruning and spray-
ing. There are four
seedlings of the seedlings of the
Snow now in cultivation in this coun-
try-McIntosh, Shiawassee, Scarlet Plpwin, and Princess Louise. All these
have the Snow
a and Louise. espedessert qualities, but it is doubtful if any the four will
supersede the Snow
a $\underset{\text { variety. }}{\text { a }}$ hem will be succesan extent of counan extent of coun-
try. From Halifax very town and city demand in their sea-
son. A few years elling in saw thetroit at $\$ 5.00$ per barrel, only a medium price here, in November. Were to fall off before maturity makes it an unsatis- course, they had the duty of 75 cents a barrel factory variety to handle. It has the weaknen's against them, but they got there just the same.
 well, but is not quite ready here when the ichess are done. ime greare fruit, both to the home and foreign market. This evil must be overcome before we can get the best, returns. proved by experience better than an inmature one, so long as it has not reached the stage of mellowness. In harvesting and shipping our fruit, we should keep under test for some years an apple named the Peerless. It comes in right after Duchess, and is said to be a seedling of that variety. The tree is hardy, hears early athd nually, and the appie is larger than Iuchess, and
some I know of. It averages about the size of King; bright, attractive color; clean skin; is never atected wal. This gus, and, as a colls, the bill nicely, just after Duchess. notice that some nurserymen advertise an apple of this name as a winter variety, If it is the same one as I have, it is certainly not a winter
apple, but a valuable addition to the list of early fall varieties. The next real good apple in rotation will prune the St. Lawrence, and anyone whio this a profitable one to grow. It is an all-round good one,
either for dessert or cookinf., its chief fault being ts tendency to scab. But last fall it was very clean, even where not spray'ed. There was a
heavy crop of them, of fine quality. They met sprayed.

Blenheim, though inclined to be a biennial searer, is a clean-skinned, salable apple. Baxter,
chough not a heavy bearer, is regular, has no dessert quality, but is a good cooker, and its large size and fine color makes it a good. market sprayed. It has made some high records in prices in the old country in past years:
As already intimated, we are not now in a position that it is only profitable to grow the
winter apples. Our position is such that we cat "inter apples. and shipping extend from August to the end of October. We do not have to put our eggs all in one basket.
Simcoe Co.,

Those interested in garden crops, and particularly in an early supply, could profit by the use of a cold-frame. Not only can plants.started in greenhouse, hotbed or kitchen window be hardened before being set in the garden, but also without resorting to any of these three, considerable gain in time can be made. By building a irame and fitting on a window sash, considerable heat is absorbed in day ime, and during night the young plants are protected from frost.

## POULTRY

Housing and Feeding Young Chicks.
er's Advocate The first important thing in successful rearing of young chickens is the stock they are hatched
from. If it is weakened in vitality by improper housing, feeding, etc., much greater difficulties are experienced in rearing them. The next important
item is incubation. Some farmers have good item is incubation. Some farmers have good
stock, possessing strong vitality, but yet get stock, possessing strong vitality, but yet get tion. Considerable experimenting has been done by our experiment stations along this line, and
it is an established fact that moisture plays an important part in successful incubation. Chickens hatched in a dry atmosphere are liable to be weakly, and subjects for diseases, white diarrhea being most common. It has been found that,
washing an incubator out thoroughly before placing eggs in, with a ten-per-cent. solution of a good disinfectant, and using moisture pans below
tray, this trouble is largely controlled. $\Lambda \mathrm{t}$ some tray, this trouble is largely cell, but at others not places it ssems At the State College, Pennsylvania, work is about to be started in blood-count vestigation, with the endeavor to find out, if
possible, wherein the trouble lies. Investigation will also be started to try to find out what causes eggs to decay or rot under hens, and not in incubators. Weak germs, dying under Hens, if al-
lowed to remain three weeks, have a very pfiensive lowed to remain three weeks, have a very,
smell ; this seldom occurrs in a machine.
From many tests made, it is a well-established fact that well-constructed brooders, if properly managed, will raise as many as, $\begin{gathered}\text { Fire brooders are far }\end{gathered}$ chicks than hens wind buildings than incuba-
more dangerous around bied
Fireless brooders are being operated with tors. Fireless brooders are being operated wit
success by some. While at State College, Pa. success by some. While at state College, tests with heated ones. Indications seem to point that fireless brooders can be operated quite as successfully as the heated ones; these, of
course, were run in a heated building. Seventy course, were run in a heated buch; they are now over six weeks old, and look jusi as well as thos under the heated brooders.
feeding young chicks.
After young chicks leave the shell, warmth i
the most important requisite to finish incubation the most important requisite to finish incubation
lt is not wise to feed too soon ; in most case 48 hours is soon enough. Fine grit should b the first material placed before them; this can be given at any time after placing in the brooder
All brooders should be thoroughly disinfected be fore placing chicks in. This is most importa especially if chicks have been in them before, a
there are almost sure to be a lot of disease germs there are almost sure to be a lot of disease germs which may prove fatal to a good hatch. Normal hatched chicks stand a much better chance cald be taken in the material used on the broode tloor. Often, incubator chicks will eat arst thing anything. Sawdust is posssby it is indigestible Mouldy chaff is also very harmful. Clean clove chaff or cut clover is probably the best materit
that can be used. Stale bread, moistened wit miik, is probably the best food to start young chicks on ; it should not be fed very wet. Where whole fresh milk can be had, there is nothing bet ter for young chicks to drink; it is a starting young chicks off in life. It is not a grood policy to let the chicks become very thirsty and gorge themselves at any tinto their drink, thus polluting it
venient drinking fountain can be made out of tomato can, by punching a few holes near the
edge of opening, and filling with the milk or edge of opening, and filling with the mincer
water, and inverting in a small pan or saucer the chicks can drink from the bottom as it feeds down. Green food should always be provided for young, growing chicks. Few people realize how
important this is, especially if chicks are kept in important this is, especially it chicks are kept ing
confinement. A good feed is made by choping up fine a good-sized onion with a hard-boiled egg and dry breadcrumbs, using enough bread to take
up all the moisture of the egg and onion; this can be fed with good results anter they are a few days old. Young chicks will soon learn to eat
mangels or sugar beets chopped up fine, and it is mangels or sugar beets cy will consume in a day. Sime in some form should be given for the formation of bone: broken plaster, dry ground-tom of dry bran is much enjoved by young chicks th
pick at, but should not be fed as an exclusive. ration. The soone
 they will grow. This applies more to ehic
hatched early in the season, before they get chance to run on the grs in chaf answers wel Care should be taken not to feed ton much hea
gestion will follow. Cracked corn is probably
the worst in this regard. After they have libert on the ground in spring, cracked corn can be fed as part of ration with safety. Arter the chick.
are ten days old, some form of animal food should be given. Beef scrap, if of good quality, fed once a day, makes them grow much faster. goodly amount can be fed with safety are spring.
get accustoned to it. If the combs ing too fast, lessen the amount.
After chickens are a month old, and have fre range, hopper feeding is best. Put them out in
colony houses in an orchard or other shady place, and watch them grow. A cheap colony
house for chickens can be made from two piand boxes. The backs and part of top are removed the boxes are placed two feet apart; a wide doo is made in front; the material in back and top will nearly, if not quite, cover floor between and wide, is cut for pable, to make pitch. The roo can be covered with roofing paper. W. W. CLARK.

## A Portable Poultry House

 Please describe a portable henhouse forhens, the amount of lumber, scantling and other things needed. F. M. colony house as one where the fowls contained al hive together as one family. It may be of many
sizes and shapes. The advantages claimed for it are cheapness and effectiveness. It is cheap b are cheapness and effectiveness. cause of its construction, and because little or $r$ r encing is required to divide the several pens of wo sizes of colony houses, one for 25 birds and two sizes of colony houses, one for 25 birds and


## To Ppevent Egre-eating

Seeing an enquiry as to how to keep hens from ating their eggs, Procure some nail kegs for
oou a sure cure. nests, and about three parts fill them with straw. In that way the hen has not room to see the egg, ny your great Home Magazine every success.
Grenville Co., Ont. FARMER'S SISTER.

## THE FARM BULLETIN.

## Syrup-making on a Small Scale.

In the issue dated Feb 25th of your valuable paper, Frontenac Subscriber opens a discussion on naple-syrup manufacturing, and asks for the opinion of others on the suinectry, like himself, worked at on whatever scale it can be Fronenac Subscriber does not mention the size of tenac Subscriber give any information in regard to how he works things.
In the best way possible, I will give you my
experience and endeavor to outline the manufac experience, and endeavor to outline the manufac-
ture of this precious fluid, for the benefit of the readers who have not been fortunate enough to have been raised where it is manufactured-for inand buying farms with maple groves from people and buying farms retire. I own a hundred-acre farm, with about eight acres of bush, which has about 150 hard-maple trees in it. Each year I tap
about $1 C 0$ of them ; some people in this vicinity tap a few soft maples and mix the sap from these ment, unless it is
boiled down extra strong. with are bored er's bit, about 2 $2 \frac{1}{3}$ or 3 inches deep.
and carefully cleand and carefully cleaned out; then, $\begin{gathered}\text { metal } \\ \text { spouts, } \\ \text { with }\end{gathered}$ hangers, are driven
into the holes, tin buckets ar hung. The bucket hold two gackevs the top than they so that when the sap freezes in then
it is easily we use a team horses hitched to
the front bob of an
old hobsleigh which milk cans are fastened. The sap
is gathered into
large barrels carge barrels and
cans, which are
o the bush floor rests upon two runners, which may be flat- situated about the center of $6 \times 8$-inch dimension. By hitching a team to pan, measuring 5 it . $\times 3 \mathrm{ft}$. by 8 inches deep, the runners the house may be moved to any de-placed oll a foundation The foundiation is well
sired location. These runners ure placed two feet cross-bars of metal. The under each side of the house, and extend a foot banked around the outside with clay. A smoke at each end. The siding is one thekness of inch stack is pacthe other end. The sap is put into a any rough lumber will do if battened. The east barrel, which is elevated above the pan, and is double boarded, to protect the roosts which are fast as it boils down. In this way the sap can be in this end. The house requires to build it, kept boiling all the time. Just a few more words, paper. A handy farmer, who can do the work much space. I would advise all fariners having a himself, could place one on his farm for about prove to keep at it, or start in the industry. If modated. The cost of head of poultry accom- the grove is too small to make a large haul out tinuous houses formerly ndrocated was $\$ 3, \$ 7$ and home use, as 1 think there is no syrup or prenuch capital to expect a hen to pay the interest maple syrup; while, if you are fortunate enough fund manufacturing the syrup. Wishing all readers Now is the time to prepare for wintor egge dutry this eprings, success olit Subsciuber

Forthcoming Events.

$\square$

MARCH 11,1900
Like the Bones in alSuckeng
Editor "The Farmer's $\Lambda$ dvocate":
One day received in my mail a parcel con
Iny One day Cecestmas Number and two weekly
taining the Christmas, Advocate," and a letter
copies of " The Farmers An
telling me that a kind friend had sent me the olling me that a kind friend had sent me the
tell paper for "The Farmer's Advocate," then a li
membered
" tle monthly, in my childhood, but had not seen copy for years. the parcel, when, presto! change the little monthly had it liked it very much, and greatly appr paper. Iny Christmas box, which began with a Christmas Number and ended
so lasted an entire year round.
so lasted an entire year round.
I like it because it stands up so firmly for the rights of the farmer, his wife, son and daughter.
it also gives us good, clean, decent reading, It also gives us good, clean, It teaches us farmers the dignity of farming, to love our home and family, and to know that our boys and girls are our most valuable products. Then each article is so carefuly, for beginners, and plainly
that dull in
understand.
understand.
Sometimes I think the iniormation contained
in a single article worth more than the cost of in a single artiction
year's subscription
For instance, there were several articles warn ing farmers of the danger of not, exercising an in-
foal mare; and other articles on how to prevent one plainly for want of exercising the mare, and the other colt from, joint ill. Had he read "The With horses the high price they are, the value of those two coltts would have paid for "The Farmer's Advocate" for half a lifetime.
These are some of the good points of These are some ore but want of space prevent.s Farmer's Advocate,
me from telling all its good points. It would be a job like trying to count the bones in a sucker. to say 1 am anthusiastic subscriber.

South Ontario Co., Ont
Editor "'The Farmer's Advocate this winter has
The weather in this locality this been very changeable. Much freezing and thaw-
ing has taken place, which wiil give winter grains and clovers a hard struggle. The clovers looked protection, owing to cattle pasturing on them s protection, Very little alfalfa is grown here, al
late.
though, wherever tried, has done well, and smal though, wherever tried, has done well, and smal
trouble was encountered getting a catch. Considerable gypsum and salt will probably be used on the land this spring, although little was used before. Hay is very plentiful, and farmers are
no way anxious to sell. 13uyers are paying $\$ 9.00$ no way anxious to sell. Buyers are paying a and
per ton, f.o.b., station, for No. 1 timothy, and buyers pay for pressing. One buyer remarked, recently, that if he was willing to lose $\$ 1.00$ per
ton, he could buy 1,000 tons of hay in ten hours. south Oniario has a small boom in farm land at present, but I arn unable to state cause. Cattlebuyers are around in good style. (2uite a num-
ber of beef cattle, weighing at present from 1,100 per cwt.. and it is reported $\$ 6.00$ was paid for some havier ones, these cattle were to be
shipped about May 1st. Hogs are very scarce, and brood sows sell very high at the numerous
auction sales, while sheep are in very little desuction sales, while sheep are in rather low price
mand, owing, no dout, to the ry of the United
of wool. I understand many oi States Western ranchers are ursing sheep-raising
for a change; but we believe, when prices are rather dull, and the neighbors are getling rid of
what they consider unprofitable stock, it is wise
to hold to hold on to at least one's present stock, for
in all probatility the prices will soon straighten

Every Sulbscriber Should Have It.

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## To Our Club-raisers.

There are thousands of farmers who do not know what they are losing every year through not being subscribers to "The Farmer's Advo cate and Home Magazine." Therefore, we want all readers of "The Farmer's Advocate" to ac as club-raisers this year, and send us large lists of NEW SUBSCRIBERS

If you send us two new names and $\$ 3.00$ to cover same (each new subscriber paying $\$ 1.50$ ), we will mark date on your paper forward one year as remuneration to you; or, for each single NEW WAME, accompanied by $\$ 1.50$, wo will advance the date of your address label six wonths. Cash sommissions or premiums, as months. C preferred, for larger lists of new names.

In clubs of FOUR RENEWALS OR OVER, wo will accept $\$ 1.25$ each.

Premiums not included in club offers
Start raising your club immediately. Get The Farmer's Advocate and Home Magazine' into every household in your locality.

## England and Ontario

It esaid that "/ comparisons are odious." Tossibly so, sometimes, but they, are generally If the northern and western districts, Rainy River, Thunder Bay, Algoma, Nipissing and Parry Sound, be eliminated from the Province, it will be noted that there are many points of similarity between Ontario and England
Untario, as a whole, is more than four times
ns large as England, but the part of it which is now under review-Eastern and Western Ontario, or cultivated Ontario-is, roughly speaking, about
the same size, some fifty thousand square miles. the same size, some fifty thousand square miles.
Furthermore, if England were pulled round Furthermore, it countries would be almost identical. This, however, is a purely geographical aigression, and except in so far that the area of the two countries is about equal. ers to learn that the cultivated area of England exceeds that of Ontario. In to hand) there were $10,77 \tau, 595$ acres of arabie land, and 13,807,$\mathbf{8 6 0}$ of permanent grass lands, or a same period, the figures were as follows: Total area of cleared land, 14,110,054 acres, of which $9,323,624$ were under also some 326,000 acres of orchards and vineyards. diflerence in the area under crops in these respective regions, and a few details regarding the
various crops raised, and the amount of protuc tion in each case, will be of interest. The prin cipal crops in İnglat


 ligs .........................2.2. It is only fair to state hat ane arerage below
in ontario for 190 was generally much
ithat of 1 SOOG.

Another Traction Ditcher for Ontario.
.. The Farmer's Advacate " is glad to learn that the Traction Ditcher, nescribe introduced more extensively into Ontario. Mr. Walter Day at present a student at the Ontario Agricultural
College, has purchased one, and will begin work College, has purchased one, and will beg College in the siagara district as soon as the Coilege
closes, starting on the farm of Mr. J. H. Rittenhouse, Vineland. Quite a number in that local
ity and around St. Catharines have already en ity and around st. Catharines he hopes to branch out into other districts, probably making one trip toward Guelph and the "County of wellington " The Farmer's Advoate that this machine is a success, as, with the scarcity of farm help, it will mean much to the farmers of Ontario to be able to have their drains

## Good Roads Delegates Discuss

 Problems.Veliberations at the seventh annual convention the Ontario Good Roads Association, held in Toronto, last week, showed that an increased in cerest is being takin in the improvement of high superintendents, worhing under the county-roads system, indicated thorough satisfaction. The unanimous opinion seemed to be that the old custom oi statute labor should be discarded, and competent men given permato engage assistants
the roadways, with power to the roadways, with power in the various localities whose duties it would be to keep roads in repair, and report regularly to the superintendent. A great deal of attention one was given tostifying to the merits of cement. In addition to practical addresses by those engaged in the construction of improved high Governor ( (ibson, Hon. Ir. Reaume, Mayor Oliver and representatives of the Toronto Board of Trade. The Lieutenant-Governor showed an in terest in good roads and his knowledge of the
underlying principles. 11r. Reaume favored liberal underlying principles. Dr. Reaumer work in open-
assistance to those who did pioneer ing new agricultural areas, and promised full consideration of any reasonable suggestions from the convention. The city delegal offials, with a view to sharing expense connected with the betit was highways. greatest good was not derived by those in attendance because of a lack of system from start o. finish. Attractive programmes were distributed, showing important features for fore-
noon and afternoon sessions on Wednesday and Thursday: Instead of following the programme. it was found necessary to change the order of

| Fingilanio. |  |  |
| :---: | :---: | :---: |
|  | Acres under | $\begin{aligned} & \text { Average yield } \\ & \text { per acre. } \end{aligned}$ |
| Wheat. | 1,537,2018 | 33.96 bush. |
| Oats | 1,967,682 | 46.61 |
| Barley | 1,411.16:3 | 35.6 |
| Reans | 299, 186 | -90) 19 |
| Peas | 105829 | 310.46 |
| Turnips | 1.098, 436 | 116.20 |
| Mangels | 381.891 | 123.97 |
| Potatoes | 6 6.6.4,206 | 1.55 | !lay clovers, sainioin 3 onft. 1:2


| RIO. |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Acres under. | Average per |  |
| Fall wheat | 676,164 | 22.99 | bush. |
| >pring wheat | 144,514 | 17.11 98.48 |  |
| , bats | 2,932,509 | 28.38 |  |
| Barley | 666.891 |  |  |
| I'eas | $310.9 \%$ | 16.61 |  |
| Beans | 47..562 | 6. 70 |  |
| Corn | 373.931 | 1.18 | ton |
| Hay | 3.289, 183.347 | 68.42 | cw |
| Potatoes | 213,036; | 136.2 ! |  |
| ${ }_{*}$ T |  |  |  |


| It will be seen that, not only in nearly ewery case is the production larger, but What in every instance the ateragen when whent whe por intingland, esperiale so in wheat it must be taken into consideration that the bushel in Fongland requals 63 pounds. and that of oats in poumls. but, "herpent the hundretweight 100 pounds. This higher pereentace is probabic due to (1) the pros imity of salt water: (2) the more efluable temperature. and consequent steadier growth of crops and (3) more careful cullivation <br> The following is a comparation fable of the |  |
| :---: | :---: |

THE FARMER＇S ADVOCATE
ress in road－making throughout the Province was tain funds for road－making purposes was advo in keeping with other agricultural advancement．cated by A．W．Campbell，Deputy nature labor was
He recalled experiences with the old corduroy
lic Works．The old system of stater He recalled experiences with the of legislation now on the unfair to many．The progressive and hard－work
roads．The effect of statutes in stinculating local effort at improvement of rural highways was outlined．In many dis－
tricts he said that good work had been done by making use of road machinery to better the coun－ making use of roads without burdening the Province with try roadse Cement with steel reinforcement was re－
derred to as being a worthy successor to the old
fercel ferred to as being a worthy successor to the old
wooden structures．In time，it was claimed steel wooden structures．In time，it was claimed stere that concrete
Broad，flat roads in city，town and country Broad，flat roads in city，town and country
were condemned．A vital principle had been neg－ were condemned．A vital principle had been neg－ crowned so as to shed the water，if they were to
remain satisfactory．The association was doing remain satisfactory．The association was doing construction．Fivery mile properly built served
as an object lesson to the surrounding district． Systems would have to be adopted to meet the conditions in the various localities． worth County，thought that road－making should keep pace with the progressiveness of the age．
The Government could do much nore by way of assisting in the good work．The unemployed
could be used to advantage．Farmers were well satisfied．In Wentworth County the cost had been about $\$ 1.40$ per thousand of assessment． system．
By way of showing how progressive and how independent the farmers could be if they wished Mr．Gage pointed out that the Township of Bar cement sidewalks，and that a sewerage system wa being planned．
By a common levy，and without debentures
Perth County was going ahead with improvement of highways．Warden David Bonis，of St．Mary＇s， said that the work of the past few years had been saighly satisfactory．Two years ago $\$ 42,000$ was
his
Last season about $\$ 30,000$ was the ex－ penditure．No special county committee had been appointed，but the reeves of each in co－operation with the county engineer．The ratepayers supported
the system of paying in full each year． A workable plan for counties where repairs and
improvements were required and approximate
wise cost，were g to rip up all old roadbeds that wer in poor condition．In many cases a covering
six inches was as good as eighteen inches． six inches was as good as eighteen inches．
penses averaged on nine road divisions show penses averaged on nine road at $\$ 2.70$ per cor
that gravel could be placed at
and broken stone at $\$ 3.80$ per cord．The grea efficiency of the latter made it the most advis
able．Very satisfactory roads had been made at able．Yery satisfactory roavs mile，and under favorable conditions for $\$ 400$ less．Sub－surface drains at each sids wer to be preferred to one such drain in the middte of
the roadbed．In reply to queries as to the mos desirable width of roadbed and the grade from
crown to shoulder，Mr．Bonis advised 16 to 20 but wider near a town or city．The grade would require to be greater，as the road was made wider
but one inch to ten or twelve from the crown was sufficient． $\begin{aligned} & \text { Advantages and comparative cost of cement } \\ & \text { cor }\end{aligned}$ hridges were carefully outlined by Frank Barber
County Engineer of York．The use of only high grade cenment and the employment of honest and
experienced contractors were urged．One cause experienced contractors were was found to be due to finishing the Structures built in recent years
to fill the other．St ine cement to be efficient for arches
showed the use of as wide as 251 feet．Among the qualities tha
made cement popular were durability，lack o made cement
vibration，and the removal of necessity of repairs
Compared with stecl，the cost was about 3 to in favor of coment，and wherer with age．
40 years，cement grew stronger and making machinery were given by M．McG．Rankin of Collin＇s Bay，who has had a wide experience Co－speration of the rad conmissioners to ensure
cillors with the road good work was urged．Wy W．D．Annis，of Scarboro
as the most important factor to bring about the
 would hire their men and twams to the commis－Hon．Dr．Reaume，Minister of Public Works，
sioners at as low figures as they obtaince hy doing recalled the hardships he had endured as a medi sioners at as low figures as commutation in every municipality of the Prol do away with statute labor．As a rule the and anxious to leave road－making to specialist．
Full explanation to the people，and the cmploy Full explanation
ment of capabl
orape taxes．If farmers money wees，pront on providing bere assured the
ing successful farmer always gave good service
while others positively refused to do their share or in some cases totally neglected it． 000 wer At present，it was stated，that $\$ 2,000,000$ wer The results were unsatisfactory．There was too Inuch useless work．What was wanted was
more general interest among the people．In dis tricts where ratepayers were opposed to commu
tation of statute labor，organization should be tation of statute labor，organization should bo
effected，and mectings held to point out the ad－ visability of a change．
Special eflorts were urged in improving inter－
This lownship roads and leading county roads． pense．Strong concrete bridges，proper drainage and thoroughness on all roads undertaken wat prime requisites．By working slowly and making
every effort serve as an object lesson the work would progress and the people would get value for
money expended． Good－roads work in Halton was spoken of by
J．G．Wilson，Road Commissioner for the County J．G．Wilson，Road Commissioner for the County． gravel and crushed stone．By crushing stone of ings，three miles had been huilt at a cost of
$\$ 2900$ Altocether $\$ 11,000$ had been spent on bridges and $\$ 10,000$ on roads． cording to Chas．Talbot，of London，Count proper designing of the structure，competent con tractors and careful supervision．Ratopayers would not discard steel bridges unless somethin place．The argument given was that steel would last until the present generation were dead．Up lo 40 －foot spans，reinforced
built at lower cote cout than steel．
Prices given for built at lower cost than steel．Prices given wio
building bridges last year included a bridge wit 10 －foot arch， 13 feet wide， 16 －foot roadway，and all butments and filling at a cost of $\$ 430$ ；and
another 15 －foot span， 16 foot roadway， 91 feet


The Most Delicious Sweet high，at a cost of $\$ 3.11$ ．Concrete for bases anad arches $\$ 8.00$ per cubic yard．
The county was in twenty－three divisions，each with a superintendent in charge，whose duty it ＂as to see that all repairs were made．Each man
bad supervision over about tén miles． It was specially urged by Mr．Campbell that the largest floods when putting up a substantial
bridge，even if the cost were increased cases an othwwise valuable structure was de Mayor Oliver，of Toronto，thought that hearty co－operation among representatives from
county， able Government aid financially，should result in suggested that，since amtomobilists made extensive ase of highwass，and were anxious to have them ermment should boy doubled or trebled to help swelo the resources for goonl roads purposes．The recalled the hardships he had endured as a meent led him to consider this ome of the most impor－
lant features of his department．In most coun－



bring about the desirigd changer of property to ob-
Taxation on assessed valuas of
doilar for dollar，or cyen two dollars to ane，for olonization roads．The settlers，however，must o－operate，and it must not be forgotten that， The chairman of the Good Roads Committee he Toronto Board of Trade，L．H．Clarke，de－ plored the condition of the highways in the vicin－
ity of Toronto．As the son of a farmer，and one who intended to return to rural Ontario to spend his declining years，he was interested in road－
improvement．Torouto，he said，was willing to improvement．Toronto，he said，was willing to
do its share in making this improvement．The city council would be petitioned for a grant of $\$ 100 ; 00 \mathrm{c}$ ，to be givent to surrounding municipali－ hescretary Morley，of the Board of Irade al assured the Association that the city would give all possible aid．
A thoroughly Provincial road system was ad－
ocated by H．J．Bowman，of 13erlin Cound Clerk of Waterloo．Keference was made to the State aid across the line．Pennslyvania had granted $\$ 40,000,000$ ，and New York $\$ 50,000,000$ ， meant systematic progress by competent road meant systematic progress iders．The Ontario Government was not giv ing sufficient aid．At least dollar for dollar
hould be the rule．
Regarding the nutomohil ax，it，too，was far too low．Instead of \＄4．c0 for the first year，and $\$ 2.00$ per year after，the
levy should be $\$ 100$ the first year，and $\$ 50$ aifter． Reeve Ford，of Trafalgar＇Township，stated that there were over 60 steel and cement bridges in the township．the fact that cement was hest， although steel had been used for 25 years．Money had been obtained by direct taxation．Road Construction was expensive，owing to the nature
of the clay，the necessity of drainage，and the difficulty in securing material．S．McDermand，of akeview explained Cyanty had turned down he county－roads scheme because the Govarnment grant was insufficient．Suitable material could an high for reasonable cost，and the expenses nigh for proper roadways．Endertaken a scheme for road improvement． committee had been appointed，and ${ }^{\text {highway }}$ had been examined，and plans made to proceed with the work．
For building culverts or bridges，C．L．Hicks，
of Humber，advocated that nothing be attempted of Humber，advocated that nothing be attempted
before securing the services of a skilled engineer to design plans．Particular care was demanded should be used above the ground level．Sharp
sand and coarse gravel was best，but many used pit gravel．For butments，one of cement to
three of sand and five of gravel，was the strength advised，while，for reinforced work，one of cement
to two of sand and four of gravel gave satisfac－ tion．All clay and foreign materials should be
kept out，and no traffic should be allowed until
the cement had set． Earth roads，with pointers on improvement
and maintenance，formed the basis for a most in－ and maintenance，formed the basis for a M．Ritten－
teresting and practical paper by W．B．．Re mas done missionary
house，oi Beamsville，who has work in behalf of road improvenone for many
wears．It was pointed out that the only perma－ years．It was pointed out that the only perma－
nent road was store or macadam，but this was nent road was store or macadam，but this was
enpensive．Farth roads were the only kind with－
and reach，and these much easier on horses and vehicles． A system whereby these earth roads could be
maintained in good repair，at low cost，one
learned by experience was learned by experience，was outlined．Surface and
underground drainage were necessary．A saving of tivo inches or more of surface metal resulted from proper drainage．Tile could be laid at a
cost of $\$ 200$ per miie，and great loss and incon－ venience avoided．Many roads were made too
wide．The width surcested was 18 to 24 feet， depending on the amount of traffic．The object should be to make them narrow，and thus to
centralize traffic．Fvery road should be left in such condition that teains would travel on the ing，followed by two or three trips with a wide－ The split－loy，advocated by＂The Farmer＇s ddvocate＂was spoken of as one of the most im rarth roads in repair．Where it was not neces－ the conter，one man and his team，with a drag， with a grader．：＂It has been found，＂said Mr numtenance on an aurerage of $\$ 42.50$ per mile Fond to be $\$ 3.00$ to $\$ 6.00$ per mile，so that pink from condition．＂He advised frequent drag Fhucation was alluded to as heing very es ．We have chat divisions，and are offering fout mirne in that the money and work will

 Ath rompt-making, and thorough drainage, were
 hermanent road if the draianae was not periect
permers were valuable, but thousands of dollars Graders were valuanle, but thousuads of tollary were cable hands.
capable hands. Sup, County Road Superintentent, of
R. H. Jupp,
outlined the work done in that county, simcoe, outlined the work county make an effort to improve the highways. The ratepayers always
were satisfied if they saw an improvement for money expended. He deplored the harmitul in-
fuences of "cliques and pulls" in almost every fluences of "cliques and pulls" in almost every
county council, and said that work in bettering county council, not progress as it should unless har-
roads could mony prevailed. According to J. L. Taylor, Superintendent of
Wentworth County roads, the stone used last year Wentworth County roads, the stone used last year
in construction and repairs would make a pile in contre wide and four feet high, stretching six and one-half miles. The cost ranged from $\$ 1,100$
to $\$ 2,500$ per mile for building stone roads, an average of 300 cords of stone per mile being used.
Rocks commonly found in Ontario were compared for efficiency in road-making by T. Aird Murray, of Toronto. Tough, good-wearing ma-
terialis were wanted for the surface, while it was also advisable
would result in $\qquad$ Samples of common rions And OFFICERS
Move by J. F. Beam, of Welland, and seconded
by H. S. Moore, of Simcoe, "That, whereas the by H. S. Moore, of Simcoe, "That, whereas the
Province has with a lavish hand aided our priProvince has
vately-owned railways, which provide the long
haul to market for our farm products; resolved, haul to market for our farm products; resolved, that the Province now provide haul of the same ior the equan the farm to the railway stations
products from
over our publicly-owned highways, by increasing over our publicly-owned highwars, one one-half the cost for good roads under county systems." The
executive was appointed to present the resolution to the Government.
Officers were elected as follows: President-W H. Pugsley, of Richmond Hill; Vice-Presidents-Secretary-treasurer-Col. I. F. Farewell, of Whit-
Sy Assistant Secretary-Treasurer-W. A. Mc-
by: Lean, of Toronto ; Executlea, and J. L. Taylor,
Pugsley, Farewell and Mclean,
of Wentworth County, and R. II. Jupp, of SimThe auditor's report showed a balance on hand
amounting to $\$ 2: 33.07$. It was decided to print amounting
a report
tributed.

## Woodstock Combination Sale

Notwithstanding the upward impetus imparte
Canadian Shorthorn business by the recent Toronto sale, and a gradually-reviving home de mand for hults, there is yet evidenced an indis-
position on the part of breeders to invest heavily
in anythine hut the choicest stock. Men who in anything but the choicest stock. Men who
have still a surplus, or at least a full compleinent of cattle in their stables at home, hese inreally warrant. This was manifest at the second
annual combination auction sale of shorthorns, larch 4th, when some thitty-five head were of-
lered. comprising drafts from the herds of such well-known breeders as II. J. Mavis, Woodstock, Bros, Highgates Win. Waldic, Stratford, and
Richard Gilson, of Delaware, Ont. The cattle, which ere ol good individuality and broong condition, and atuctioned of in a covered and heated sale Auctioneer Robson was in first-class form, and
wielded the hammer with spirit and animation. The sale was conducted in an obviously honorhidding, and only a very few animals withdrawn,
in one case because no bid was received, and in two or three instances because the highest figure mimal. The highest prices paid were, $\$ 200$ for the yourling heifer, Athelstane Rosewood 2nd, pur-
chated by W. G. Pettit \& Sons from the contin-
G for the huli calf, Beauty Chief (imp.), exposed by Hays ill. iniabolo (imp.), a ayearling bull from
the came stable, elicited a bid of $\$ 200$ from W .
 Mr. . II. Havis' contingent, ranging from under a
year
supards, realized an average price of

Welstane Robswood 2nd, contributed b
Wm. Waldie, calved Iec 1907 , if
1'ettit \& Sons, Freeman 1907, W........ \$200 cottish IRose 3rd; Mr. Daris; April, 1902;
R. F. Duncan, Carluke
ady Mina 4th; Mr. Davis; 110 Lady Mina 4th; Mr. Davis; October, 1917 , 115
J. F. Wilson, Woodstock rincess 3rd; Mr. Davis, Ma_, 1901; Joh Mckay, Wilkesport
Getorious 2nd; Mr. R. (fibson; Oct.. 1901
John Wooley \& Son, Petrolin
sittyto Sittyton Wimple; J.
Prof. G. F. Das
$\qquad$
Rosalie, 1. E. Ro
Smith, Exeter ......Nec., 1906; Harry
Wolden Drop 9th; Mr. Lattimer; Uct., 1903:
Henry Stead, Wilton Grove
Henry Stead, Wilton Grove
Iroud Primrose; J. T. Gibson; July, 1906;
I iobert Curry, Oakdale
abert Curts. Oakdale
Beauty Chef; Mr. Mavis; March, 1908; Sol-
omon Shantz, Haysville C, 1907, W w w $\$$.
 James Brown, Thorold ...................
May Boy 19th; J. T. Gibson; May,
 Broadhooks Chancellor; Scott Bros.; May
$1908 ;$ J. A. Campbell, St. Thomas.

Alloerta Pork Commission Report. The report of the Commission, consisting of
Messrs. R. A. Wallace, Jas. Bower and A. (i. HarMessrs. R. A. Wallace, Jas. Bower and A. (i. Harinquire into the condition of the hog-raising in-
dustry in the Province of Alberta, and advise dustry in the Province of Alberta, and advise
what measures might be taken to insure for hograisers a fair price for their products, was presented to the Provincial Legislature on February 18th. After reviewing the terms of the commis-
sion, and the evidence taken in various parts of the Province, the report points out that the evidence shows that, not only has the farmer not received what he considers a fair price (five cents
per pound live weight) for his hogs, but that he has not, in very many cases, been able to receive any price at all; that he is able to overstock the
market; that his energies have been curtailed on this account, and that he does not know where to hor line, even at any price, and still 75 per cent. of the cured meat is imported.
After pointing out the injury such state of affairs does to the Province, and discussing the fiome market and that provided in British Columbia and in (ireat lsitain, it is claimed that, if a thavernment-controlled plant does nothing as the creameries have done, that the article to suit the trade can be raised, and also cured, in Alberta, in wisk in making suche besides giving an incentive to farmers to go into wheat-raising, making Alberta a "sure-crop", Province. and a Province in which financia
stitutions will have faich to do business. mission is that, when a sufficient number of hog growers give a reasonable assurance that they
will plant, and that they will elect from among themselves ollicers and directors whose duty it will be able quality, to decide on the amount of money
moner the plant; to look after the conduct and ability money to build, equip and operate a plant, as
they and the directors deem most advisable, so constructed to admit of enfargement, and the orichandle at least three hundred hogs a day at the start, that the management take in the two-thirds of their estimated value, then at regucient time has elapsed to place the product on the
col market, pay the producers the balance of the full
value of their product, less the cost of curing and value of their product, less the cost of curing and
narketing the same, and a sum sufficient to pay marketing the same, and a sum sumicicent as insurance, taxes, directors' remuneration, etc., less one-quarter cent
per pound live weight, this' one-guarter cent per pound the ourpose of pasing back to the Government their original investment and interest thereon. And, at the same lime, to allot into this fund patron equal to the amount paid into this fund
by the assessment of the one-quarter of a cent per pound on his product, further, that when the Gov-
It is recommended, ernment indehtedness has been finally paid off
by this fund, that the fund be applied to paying by this fund, that the fund be applied to paying
a reasonable interest to the patrons on the
anount a reasonaf shares held by them, and take the
ainount of
halance to be paid as a bonus on each pound of

To bona-fide patrons, and then only by application to and with the consent of the directors. But,
of the event of removal or death of any of the patrons, and where application has not been made of one year subsequent to such removal or death, of one ycar subsequent to such removal or death,
then the directors may have power to cancel such shares, and apply the proceeds to the general fund. The commissioners also recommend that, in the
event of it being found necessary to erect addievent of it being found necessary the Province,
ional plants at other points in the those patrons who wish to withdraw from the first existing plant, may do so, with the approval
of the directors, the shares held by them being of the directors, the shares held by them bemg aransferred to the new plant with which they may drawn from the first existing plant to be made by the remaining patrons, as before freight rates is that the sum-total be subdivided, and charged "qually against each pound of pork. Regular shipping days are advised. Patrons will be re quired to enter into agreement to give all hogs disposed of for curing purposes to the packing-
plant, and if this rule is violated, they will be subjected to a fine not exceeding two dollars fo clauses hiscuss the size of buildings and the nec essary equipment, and estimated cost of opera-

## Cement Exhibition

Magnificent displays, speaking volumes in be half of the increasing value of cement in al were in evidence at St. Lawrence Arena, Toronlast week, at the exhibition held under the auspices of the Canadian Cement and Concrete
Association. Leading firms of the continent vied with each. Leading firms of the continent vied to which cement could be put. In one exhibit it was a concrete beam, twelve feet long, supporting the structural formations ranged from huge pillars to ornamental vases for lawns. Mixers, elevators, and all lines of machinery used in the manufacture of concrete, too, were in evidence. and fireproof buildings of reinforced concrete were attractive features.
From the standpoint of demonstration in the numerous uses to which rock products could be put, it would be difficult to magine a more of the people who are to become extensive consumers, however, was shown by the small at-
tendance. The majority of those who showed their interest by paying the exhibition a visit, already knew many of the qualities that made cement popular in all lines of construction. Such displays in centers where the consuming public much greater value from the business standpoint. Among those who had creditable and attrac1ive displays were:
Co., of London, Ont.; $\quad$ London Concrete Machinery
Conachine Co., of London, Ont.; Galt Art Metal Co., of Cialt. Ont.; Goold, Shapley \& Muir, of Brantford, Ont..; Cement Me Mach Ceryent Co Toronto Ont.; Mimico Pressed Brick Co., of Mimico, Ont.; The Senator Mill Manufacturing Co.. of Galt, nnt.; The Industrial Chemical oo., of Swansea, Wettlaufer Bros., of Mitchell, Ont.; F. Hopkins \& O., of Montreal, P. Q.; T. McQuain, of Toronto, Ont.; Brantford Roofing Co., of Bra
and Mussens, Limited, of Montreal.

Greatest Ppotectionist of Them All I said in a former letter that if Canada alforeign governments refused to reciprocate, that Parry Sound correspondent takes exception to the l'arry Sound correspondent takes exception to the to decide. He also says Taft and Bryan promised, ii elected, to revise the United States tarif
What has that to do with free trade, I would like What has that to do with free trade, I would ike
to know ? According to ". The Farmer's Advocate, of Necember 3rd, 1908, Mr. Taft declares himself a "protectionist." Tarif revision does
not mean free trade. The Conservatives, when in power, revised the tariff, and the Liberals have done the same, but we still have a protective tarinf. Mr. Miller, in his diemma, calls upon Carnegie, Hill and Jotnsone he mentions are utterIy opposed to his views with regard to free trade and direct taxation. There isn't an out-and-out free-trader in the bunch! In "The Farm-
er's Advocate" of February 11 th, S. W. C., of Oxford Co., Ont., introduces the case of Montenegro ! Now, I submit that we are not called
Nopon to devise a fiscal system for the Monteapon to devise a fiscal system for the Monte-
negrins. The gentleman, in commencing, says he heartily believes in free trade, and thinks this country would be far better if she had it. So
far, so good. But, before he closes, he begins to
 in to preevent the Yankees and the cerrumans rom arring cor manuacturng companies to the wall
Well dore. old boy Will rimen- when bou get he ree- proulect venser
 Meenns ity is zoing to have iboard on Trate and only whlow merchinntises to enter at the prices
 Bonrd of Trade Commession is atso to reyblat This is paternalism with a vengennec. T. W. . goess on to say that artisans, are bled. but the

 trade morbet orent io him in is than of t (reat triit
 kindly furnish the realers of Thu Tanmers Ad with priceses at anhell that would' suit nis lort ship? It strikes me thut \&. II. C. dopsn't quitc know his son mind ite commentes his leter as
 farther away from it than any protectionists
have ever conversed with. WIll.l.M BOLI,F

## Jingoism Come to a Head.

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cosmen, shcme has hen, prepared by the Brit
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nuse. nt the whim or the thrititist Wart with oficu







greatest sinner. Its it not lutituin's honst then
her nav
powers

Tooking throuch this thin wail of , flors


Itet the voice of the proolc of this rreat Am


his spur

One Article Worth the Price.
U. S. and Canadian Farmers Pay

I thought my work was dome with the turin)

 duty is paid on entering. 'p to that cune our farmurs have nothing to dow what the consumer
 other side of the line it in strange e that he wh
inrow away 825 ior the privilege of selling it
 tachine, so, hou doess. lose much or
 ionsk why our stores. are stochen with Am can foods ana the time, though the tart 100 per cent
iust the same. The answer is. beccauser our mand ihus allowing the timerican art cich to comme. the other side of the liue hic nas no opposition ail are combined, to set a price just as high
witl keep the outsitler out : and this time it
 not be troubled with the other fellow, but they hee "ould lose the s.5, daty "o "hident What manufacturer cantut increase " any thing. exaeph irom a board. it is just that much laes: if ha
 raw material that was there bu fore nimin. if the
 Mls that grew in the Dominion last wor and th
land is there (10) perform the same (hink assion

 Tord show me the mann that can convinee me. . Price of Maple Syrup.
 Minufacturine," also remember his Mapter si lat yoar and also that he did not get an answer mid ash an luw quast tons. 1 ats sear I burchas
 Than by the old was. but we cannot get ns mur or it here as our Front-nac subse fiker dows. si




$\qquad$
 cerse and find 1 can wes on itwern than w. Carleton co. (ont.

A National Fair Association. fir Amocriation has tatun Shation in of an Stational Shio. the intention laing to int lute in its memtural fuirs and wracitions. the objewts bring not onls the stimulation and wncouragement of such chow. . .ut the co-ope sation and protection of its
 Io the size of the fair. The recomenendations of inmitte appointed a yar ago seem to look to inducing fair managers menerally to adopt
moren uniform classifications. and to climinate

Pork-packing in Essex Co., Ont.

 Industro directle alliwh "ith acributure, viza, a Fssory. The projert is in chares of J. $s$. Proal. enc in the bacon and ham curing trade. In view of the immense numbers of hoess reared and annuBlly shipped out of Fisw. the opportunities for the new enterprise would sem to be almost unthuted. Temporars premisis will be used for
-antrons of the International Mowern show were last war wante to obtain the nith in the vicimity of Toronto whe those why Natil the product daily to the consumers, prom mompans, composed of producers, for the purpos ferecting a milk-delivers depot. Reponts of ass menting hed on saturday indicate that step. petont man as mamager. he deaters had not traaterl them faitly as to
 real.or ond path, would give ace tetmes to the prower, and also supply he consumer at lower rates than at present pre
$\qquad$
$\qquad$
$\qquad$ Sourine. if ementon the first opportunity of Vanawer Frank 1. Guren informe us that for the
comines shon. (1) ho. hold! from saturday, June qumballs been induced. There will be 18 per

## The New Brunswick Farmers and Dairsmen

QUESTIONS AND ANSWERS Miscellaneous.

GREEN MANURING OF SUMMER-
FALLOW-ALFALFA.

THE FARMER'S ADVOCATE

| $\mid \underset{\text { The }}{\text { Incorporated }} 1885$ |
| :---: |
| TRALERS BANK |
| OF CANAD |
|  |
| Jur 85 branches, |
|  |
| (tatem |
| tions |
|  |
|  |  |
|  |
|  |
| THE BANK |
|  |  |
|  |
| PEOPLE. |
|  |
|  |
| e your account |

MARKETS.
Toronto


$|$| and |
| :--- |
| and |



Buffalo.
\$6.90; Yorkers, \$6.70 to $\$ 6.85$; roughs, 85.60 to $\$ 6$, stags, 84 to 84.73 ; dairies,
86.60 to 86.80.

British Cattle Markets.


Exte, 要iterature
antifynuration.

The recent occurrence of disastrous floods in various parts of Canada affords another reminder of that is likely to be wrought where-
that that is likely to be wrough held the waters in check, away, It would appear, indeed, that it is only a
matter of time until the problem of matter of time on a large scale must aforestan up by the Government. In-
be tividual effort can seldom be trusted
did dividual effort can seldom be trusted
to carry out anything that cannot promise more immediate gain. which
In the meantime, the way in whin Great Britain proposes to grapple with the problem is interesting and suggestive. It has been ascertained
that, out of $13,000,0 \mathrm{O} 0$ acres of mountain and rough land in Britain,
$9.000,000$ are available for imme$9,000,000$ are available for imme-
diate reforestation, and the suggesdiate reforestation, and the sugges-
tion has been made that the setting tion has trees to cover this amount
out of trees
will temporarily solve the problem of providing work for the unem-
ployed. Addressing a young men's club,
not long ago, P'rofessor Woodrow not long ago, rincton, called attenmania for specialization. It is necessary, he said, that men devoted to certain lines of research, etc., should
specialize intensely, but the ordinary man should realize that some degree
of generalization is necessary to highmindedness, and to an intelligent en-
joyment of life. The men of to-day are too narrow in sympathies and knowledge, and the men of the imme-
diate future, developed by the present system, are likely to be more
so. The whole tendency of the present high-pressure life is to concen-
trate the attention of men upon the essentials of material success-a con dition which can never develop the
highest type of humanity. There is much reth in all this. While a
certain amount of specialization is necessary to all who have special wered that material prosperity is not everything, nor even the thing of sion from it that may not " pay" in hard dollars and cents may yet
of infinitely more worth than mer dollars and cents could ever be t
world. * * * * from the drinking of wood alcohol,
have been reported from various have been reported from various cause is sure to go on among th cause is sure illite
ignorant and
the word "" alcohol '
ling or describing such dangerous alcohol. Why not chand denatured altogether, substituting others which may be a cing rom the begining with wh life should surely be wor
Human an effort

## Reformed Spelling

 ditor "The Farmer's Advocate" I have read with interest the viewsand remarks of Prof. Dearness on
the Che above subject; and, as there are ne or two points ipon, erred, may 1 ask for a little space in your popuWithout going into the pros and cons of the question of reformed
spelling, I candidly admit, at the outset, that, there are many incongruities in'our present orthography, but I am exceedingly doubtful whethe
the "tinkering ") of any body of the "timkering of any body of There must be a basis or system to
work upon. What is that system? work upon. What is that system?
1s it phonetic? Prof. Dearness says Is it phonetic? Prof. Dearness says
that is quite impracticable, because that is quite impracticable, because sounds, cannot be spelled strictly pho nectically with an alphatet of 2 a good thing. I join issue on this statement. Finglish can be spelled phonetically, but if it were, our can
guage would become very often con fused, if not unintelligible. The same symbols or letters would repre
sent words of very different mean ings. if orthography makes a con-
sistently phonetic use of the alpha-





ee the longe of i. the extract fromers' organ, set forth as an exampl
of the proposed simplification o,of the propesed timp will not per-
spelling, space and
mit of an exhaustive analysis, socies: but we cann look at und con
sider a fow instances of the new". conventional," ".. "comtans", "all hi
toric," " instruction," ". historicaletc.
an $k$.. not use the phoneti-e-s in " enormities'? Why spellI might almost say, at nauseam.eminent specialists in "ord-science in
Great 1 ritain and the Inited States
word more : 1 maintain that Frencly
pare and more variable, e. y. com ans airship inventor in the worlDous avons, with we haw. The cape to (niro ratway, whic
Vous aver, with you have.
Which is the eaxier to learn Th
a five-pound note for this master-
piece may more easily be imagined

## - ing a purchase at Boulogne, foun

 the former word to suggest four let- ing a purchase at Bourogne, in the ters, not three, as " matters eccle sheets of an old MS. These provedthen we might get " siastical "." mixed up with ". rascal-
ity," which would be very, very author of the famous biography of Johnson, to the Kev. W. J. Temple. The rest of the series was recovered rom the paper merchant and pub-
ished, but the edition was sold out in two years, a fire helping to dispose of it, and it was not reprinted
until the present year. The letters, until the present year.
which begin when Boswell was a boy hich begin when end only a few months before his death, are, like
the famous Diary of John Pepys, an interesting illuminant of the time in which they were written, and furnish, besides, an interesting insight into the character of the great biographBoswell's intense consciousness himself made his progress like a pageant, and every day was a fresh
adventure. If he dined out, he noticed that there were ". three sorts of ice creams "; he noticed the handsome maid, he noticed whether what clothes he wore. He made vows in St. Paul's Church and under solemn yews; he vowed to reform
and read the classics; he broke them the day after, and was carried home drunk; and then "all the
doubts which have ever disturbed thinking men", came over him, and annihilation." His hopes of preferment were dishar: and to hearten himself he drank underrate the amazing vitality that clung to the shreds of him if we be lieved that he shuffled out of life a
dejected and disreputable figure, by twinklo of curiosity in his eye the great lips were moist and garrulous as ever. But there is a harsh strain
henceforward in his chatter, as too much strumming. Many extraordinary stories are
told of pictures being picked up for a few shillings or pence, and subse quently being sold for enormous
sums. At a recent sale at Christie's a very interesting portrait was put
up. It was a dirts-looking canvas, in which there were two large holes, in a muslin dress with yellow trimmines, and powdered hair. It meas
ured 30 in. by 25 in., and was said The picture had been offered to a from Worthing, who thought it migh tealer however, The too-knowing vas so zulch rublish, and refused to the picture to Christie's, and had it started at two hundred guineas, and in less than a minute the price mure it was secured by Mr. Charles "ertheimer. The feelings of ensed
chamber of an old curio dealer. She purchased her superb find
francs from its ignorant owner, had it skillfully restored, and on her return to America sold it for three thousand dollars, and it was cheap at that price!
As an instance of good coming out of an artist who was making a sketching tour among the mountains
of Spain. Coming to a lonely vilof Spain. lage, he put something he had said in the bar had aroused the cupidity of some of the villagers, and he was attacked in the night, and only suc-
ceeded in scaring away his assailants ceeded in scaring away his assailants
by firing several shots from his revolver. In the morning, he found that one of his revolver bullets had painting that hung upon the wall of his bedroom. Taking the begrimed canvas to the window and carefully
examining it, he found that it was a examining it, he found that it was a
genuine velasquez. He offered the innkeeper 15 s . for the canvas, and subsequently
sand pounds

## The Quiet Hour.

The Great Companion. The world seeth Me no more; but y Did you ever consider how startling those words of Christ were, and how
marvellously they have been fulfilled marvellously they have been fuds were often incomprehensible to His friends,
after plainly telling them that the end of after plainly telling them that the end of
their happy, visible companionship with their happy, close at hand, declared tha though they could not follow Him a once, yet they should have a mysteriou
vision of His face, which was denled to the world. This promised vision canno mean the glorious sight of the King in His beauty, which we confidently look
forward to as the great joy of the life forward to as the great joy of the lif
within the veil, for Christ's disciples ar within the veil, for Christs in Hisciplife, while
to see Him and to live in He to see Him and to them is blind to His
the world around them
transtiguring light. Henry Van Dyke says: "No man in
the world to-day has such power as he the world to-day has such power as he
who can make his fellow-men feel that thrist is a reality. men and women who wark through life
radianlly-and that is a far more splen-radiantly-and that is a far more splen-
did word than "cheerfully." They radidid word than "cheerfully," They radi-
ate joy wherever they are, because they
are drinking it in from the never-failing are drinking it in from the never-failing
tountain of Joy. continually. Christ
Crind lives in them; they always walk with His
hand in theirs, and their eyes on His face. How can they help shining? Do you think such people are the os-
pecially favored ones of earth, and that pecially favored ones of earch, and that second-rate faith, hope and joy? Surely
(;od loves each of His children with an God loves each of His children with an
infinite love, and wants to walk with you as He walked with Enoch long ago. Ch, don't be satisfied with the low amlace and sordid. You can walk with od, if you will-though it may take
ore than "a little while," before you can be sure that you see Him at all. Remember that it was to discipies him for years that He said. "I will not leave (1) comfortles: 1 will come to you to no more; but ye see Me: because I ive, ye shall live also. At that day ye se in Me and I in Why should we so often lack ordinary ommon-sense in matters of religion? In -ery other business we take it for grant ay. If a man is not mastered in skillful surgeon, he does not give up in
sqrair because he cannot perform difm Wht operations after a year or two of ussmaking or stenography, she does not net io do wonders in a fortnight. when anyone makes up his mind to
a real disciple of Christ. letting the a Banner of the Great Commander, h y often seems to fancy that somet hin

THE FARMER'S ADVOCATE
vision as a friend of his who has bee serving Intist entausice would be some-
century. Ithin ther
thing wrong-something very different to thing wrong-something very different to
natural law-if anyone could leap to the height of a saint at a single bound. It you find yourself still in doubt, and ye earnestly wish to feel sure that Christ is near you, the way is open. Speak to Him many times a day, listen to His
voice-He speaks to you directly (in your voice- He speaks to you directly (in your
heart) and indirectly in thousands of
ways ways-offer Him your gifts and your service, and persevere. Yes, I will re-
peat it in capital letters-PERSEVERE. peat it in capital letters-PERSEVERE.
Never get discouraged, but climb on and The way to lose the certainty o Christ's companionship is simple and oasy
All you have to do is to crowd Him out All you have to do is to crowd Him out
of each busy day. Put off the talk wit Him until everything else is attended to as if you considered His presence in your
home a matter of indifference. Never tome a matter of indifference. Never
take or mako-time to read your Bible. Decide-as Martha of Bethany did-that those who listen to the Royal Guest, in-
stead of busily serving Hima, are rwasting stead of busily serving Him, are wasting
valuable time. Instead of thinking that valuable time. Instead of thinking that
those who pray and listen are choosing those who pray and listen are choosing
a "good part," look down on them and
condemn them as "idle," saying with condemn them as "idle," saying with Martha: "Lord, dost Thou not care
that my sister hath left me to serve me." bid her therefore that she help I think people often fail to understand the wisdom or justice of our Lord's rebuke of Martha and praise or
Probably all necessary and loving preparation had been made already-our Lord would never have praised idleness or
aeglect of duty-and now the truest way peglect of duty-and now the truest way the welcome Guest was to sit quietly down and enjoy His society. He is not he only friend who would prefer some
quiet companionship to the ambition quiet companionship to the ambition
which is strong in many people to be "always busy." Resides, it is a great mistake to say that prayer is lazinnsss
t is just because prayer is so difficult that it is often crowded out of the live of husy Christians. Those who say it
is ""easy," prove by that very saying that is "easy," prove by that very saying that
they know very little what real praying they know very little what real praying
means. Jacob wrostled with God one
night, determined that he would not cease night, determined that he would not cease
the struggle until he won a blessing, and he paid for his determination by a bodily lameness. Surely that prayer was not


$$
\begin{aligned}
& \text {./ Have you and I to-day } \\
& \text { Stood silent as with Christ, ap }
\end{aligned}
$$

Have you and I to-day
Stood silent as with Christ, apart from
joy, or tray of life, to see His face, joy, or tray of life, to see His face;
To look, if but a moment, in its grace To look, if but a moment, in its grace,
And grow, by brief companionship. more true,
More nerved to lead, to dare, to do For Him at any cost? Have we to-day Found time, in thought, our
In His, and thus compare His will with ours, and wear
The impress of His wish ?
$\qquad$

$$
\begin{aligned}
& \text { Throughout the dy: will help u } \\
& \text { erect }
\end{aligned}
$$

$$
\begin{aligned}
& \text { erget } \\
& \text { Through storm and flood; detect } \\
& \text { within the hidden life sin's dross, its }
\end{aligned}
$$

$$
\begin{aligned}
& \text { stain; } \\
& \text { Revive a thought of love for Him again; } \\
& \text { Steady the steps which waver: help us }
\end{aligned}
$$

$$
\begin{aligned}
& \text { teady the steps which waver: help us } \\
& \text { seo } \\
& \text { he footpath meant for you, and me." }
\end{aligned}
$$

Let us never feel that the day hasLet us never feel that the day has
passed satisfactorily
needful" if the "one thing needful" has been crowded out by less important business that "one thing need-
ful" beine communion with God. St. Bernard of Cluny. when walking in Rernard of Cluny, when walking in
cloisters with his brother monks.

Mr. M. G. De Wolfe's Garden, Kentville, N. S
Beautiful trees and well-kept grass plots do more than anything else towards making a place homelike and restful.


With the Flowers.
Window Boxes, Hanging Baskets and Rustic
Stands.
Extracts from an address given befor
the Horticultural Society of Ontario,
by Mr. Wm. Hunt Ontario, Agri-
cultural College. (inelph., (omt.
There is. protably,
decorative art that pre
jeies

made urs of-than the wak un wh wo
ranging of window boxes, hanking bas
ranging
kets a $\qquad$



Plicasant and ans. atrac
is this true of resid
is this true of resilences, and homes
also of publico buildings, oflices, fiction
and schools.
Around
Around as those in cities und towns-a iou
window boxes or rustic stands woul
make more bright and atractive sur
roundings.
The plants and rowers woul
rus ascist teachers materially by
plosing naturalacubect matter for the
potanical and nature-study lessons.



school.
window noxpes: how to make.
A window box docs not necessarily re- re
quire to be of an claborate or expensive
naturce so lony as it

inch drassed pine of the of ollowing domen dimen
sions, will be tound very useful), inexpen-
sive, and effective. (over ..II), should be
Length of box

the box with cork mark, or ot her mate-
rial it required, of which mores will be
said later on The dimensions kiven
here can, of course, be changed to some
but care must be thken not to have the
loux too large, so as too be hany und
unweldy.













 screw-we should be the
$\underset{\substack{\text { piece of } \\ \text { Pastened } \\ \text { nlaceed in }}}{ }$
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phecod
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м.мicil 11, 1909

THE FARMER'S ADVOCATE.

 Muca glace, the plants mentioned, such as
Many of the
Salvia, Ageratum, Petunia. ,rbna, entaurea, Cobea scandens,

| the sud intours athent the uend of | lishe | which I find very hands, and would not |
| :---: | :---: | :---: |
| Sowr or carly in April, and krow on | Hishe | bie without for a great deal. The top |
| indours until end of May or early June | A Suggestive Letter | like to know of something with which |
| ww Nasturtium, two or threw somets in | Mamic burden and chatterers.--1 | to chean it. I have tried soapsuds, bath |
|  | chit I would fint have to write |  |

$\qquad$
$\qquad$


$\qquad$
$\qquad$
$\qquad$
and attractiveness of the lanns aus


The Ingle Nook.

 of farmers in the Westrorn states. "Hely "if anyone wamts to do something for
the tarmer women, let him sturt som institution that "ill d dy the cooking in
the country. Ses. I mean it. washing The country. Ves. I mean it, Washing
and cooking and the sewing, - hese light-
ened on her shoulders, even to the extent that the city housshemper has them, the farmer's wife might lie athe to do the
rest herssiffe She might have thime to
get a tuste of the social life that we hear so much of as a weed of the farin. wen tim... for that oi "Il healthiful pleasures, gariden work. "ombld make life $\Omega$ dif-
(erront thing for the womann who becomes Hrst " drudge. then " worn-out ma-
chine. worked constantly and never oiled.
" Where domestic hely Where domestic help, gives out, co-
operation is the idea that naturally suct
cradd reeds, and the suggestion of co-operation
in somne way spems to have taken hold
of the sund Some tuinds of the woumen on the farms. kind of a washing center: these things
are not impossibilities. In these days are not itmpossibilities. In these days
of ddomestic research and quick transmis-
sion distancultantile wagons might co
mer. at mast pany farms. mer . at and pass many farms, in sump
at high, when the farmer's wife is
$\qquad$
$\qquad$

Modern Living Room

re lloor, with small rugs, and phain wa is. Prublished
permission of House Beautiful
 anir litlle every-day suits. A heavier the cheaper by a half-doren limes, water, then rut with raw potatoes. nid it takes just as long in making, and this is not eirectual, rub with a mixtur he pororer material as it does for the setler quality. My experience is that Waking up these litule suits. Even the
$\qquad$ Would come reader be hind enough to give me a reliable racipe for lemon bis-
$\qquad$ Lemon Biscuits-1 find the following
recipe in mi scrap-thook. it is recommended: Three cups white sugar. 1 cup melted butter. 1 pint sweet milk, 2 eggs.
5
5 cents worth wil of lemon. 1 oz am-
ond monia. "pinch of salt. Flour to make Roll the biscuits thin and cut into Care of Sheet - iron and Zinc. Danue Durden,-As I nim an interestec
armer's Advocate." eader of "The Farmer's Advocate,"

Baked Beans.
 r too high, I considered, though the ggs kept beautifully.
Silt even so. one to four must be very strong. (One to eight or ten, or just so
Chat the egg will tloat, is the proportion, nuting the eggs in perfectly fresh, add-
ng water as it evaporates, and keeping the egg below with a plate or other Neight.
Howaver, as Dume Durden suggests, or ven without the lard, if kept in a cool. ven without the lurld, if kept in a coor, My method at present is to dip in
hoiling water for twenty seconds, then boiling water for twenty seconds, then
put in bran or oats, and keep cool and

Really, I must. on this my first call.
express appreciation of Dame Durden's Horts to make the Ingle Norm, he have
Coming from town to a farm, I hat canned the papers and magazines for pointed. Go on, Dame Durden, and if we are in squeeze us occasionally. HELENOS. By the way, I came on a new way of packing eggs the other day, vie., to brush rach egg with melted paraffine. Chen pack, small end down, as usual.
The idea, of course. in all of these

etc.-is to exclude the air, which is other-
penetrate the porous shell

## 1

THE FARMER'S ADVOCATE

Our Scpap Bag ln planning the new inuse be sure be
fore all things that it is arranged for
the the cellar is dry and light; have verain das, hut not where they will shut out
the sunlight; look well to the ventilation tyetemi and don't have a pantry claa
saterese the kitchen trom the dining-roo across
dor.
por
Pant Paint is one of the best protectors geinst germe
Before papering or painting walls, fin all hales, etc., with plaster Paris or
building cement. When papering walls remember the to $\xrightarrow{\text { lowing }}$ white wall refects 50 per cent. ligh A red paper refects 15 per cent. ligh A light burf or yellow reflects 45 per cent. light
$A$
d dark
Aight. dark brown refiects 12.5 per cent.
 Adark groen reflects 15 per cent. light The plainer the Do not use very cheap wall paper. I use paint, alabastine, etc., until you cai use paint, alahas, heap papers are ilikely
afford it hery
ather to he either culored thich fades, or to have their color set which rades, of sone arsenical solution. Another point in papering is also worthy
of notice: Never use glue in paste it you of notice: Never use glue in pastere iry yul
want $a$ asaitary wall, and, above all want asanilarys. $\begin{aligned} & \text { things. do not pate one coat of paper } \\ & \text { over another. to remove the old paper, }\end{aligned}$ over anothor.
simply mop it ouver with hot water
and and leave it necessary, until the paper is protess enugh to ouili offic then wash the
poaste away and scrape of any bits of
 Kalsomine must be removed before paw
ing. simply mop again and again w ing,
hot wat
household sausage For every 55 lbs. loan and fat pork
chopped fine mix together 1 t. salt, 6 ozs. best black pepper, 1 teaspoon ol
Cayene pepper, and a handiul of powCayenne pepper, and a
dered dried sage. mix these together. then work thoroughy through the meat.
II you wish to surf the mixture in skins
 or more, wash again, cut into convenient lengt hs and scrape on a barar, first one
side, then the ohther, until they are per
Rinse agnin, and
 throw into clean sott water until used.
For winter use, sausage may bo packed







\author{

## ment.-sti. making cherse; at home.

}

## cheese will be fit for use in two months.

will keep a year if buttered occasionally
folar, and author, unquestionably one
the greatest characters of the vic-
the greatest characters of the the prince of biographers, John Morley, now
Viscount Morley of Blackburn OrigiViscount hished in three large volumes, at
nally published
a cost of two guineas ( $\$ 10$ ). Lloyd's a cost on on ition in two handy volumes ${ }_{(1,514 \text { pages), at a price within reach of }}$ everybody, Is one special arrangement
of the season. By spore we are enabled to
with the publishers, we Wrh the publishers, we are enabled to ton-the explanation is that the former
procure for our readers who desire this can see the beauty and interest in commasterpiece, the two volumes for $\$ 1.75$. monplace things, whereas the latter can
cash, postage prepaid: or by sending us not. The former, whatever his work
 Advocate."
If you are interested in obtaining a tures, hearing symphonies, finding intor-
in classic set of the only great life of that est ann nothing but raw material to be
peerless British statesman, Gladstone, sweing ned ap, possibly into so much money this is the opportunity of a lifetime. worked up, possibly into so much money
We make the offer totally for the benefit in wood or field, finds nothing but monot-
ony in the life and drudgery in the work

## The Roundabout Club

chaturally characteristic; yet they, may
also bo culti ated. How, Pusy-Willoon

Fditor Literary Society:
While "One in Earnest" is wisely sug gesting the study of literature by people
of the rural districts, allow me to add a of the rural districts, allow wister study,
few words regarding the sit."
"Ar
"Art." majority of the people of the rural districts seem to look upon "Fine Arts"
as something beyond them. They consider their environment too commouplace
to give an interest to art, not realizing to give an interest to art, not realizing
that "Idealizing the Commonplace" is one of the greatest arts. Tennyson
onderstood this, and we onjoy his numerunderstood this, and we enjoy his numer ous word-pictures. How well-chosen is
ous subiect of this little sketch from
"She sat the child upon a mound,
And made a wreath of all the flowers that grew about, ,

Some great artists have chosen their

est subjects from farm scenes and rural
A painting of a bushel basket of onions, tumbled out on a barn floor, won a
medal at a recent exposition. The artmedal at a recent exposition. The art-
ist, through training, sees beauty which
others pass by. others pass in.
Vew of us in rul districts see a beau-
(iful picture in "cattle in the shade of great spreading trees, or grazing on the
hillside"-or the "Old Horse Drinking at the Trough... How many note the color-
ings of egetables. fresh and crisp from
the gard n? A little time to study of
 art: a knowledge of picture-making, and lastes find great pleasure in following
a new interest would be aroused in every
a hrir favorite pursuits together, but on ton a new interest would be aroused in every
thing and every place that would lend the other hand, a couple who truly love,
itself a sillject. Then, too, in the coun- tahe an interest in each of her's pleasures
and try une has the advantage of watching and occupations, often finding fields of
 her haty dis ances. Then streaks of sun- and more wofit and enjoyment are foun shin", and the shadows change. The in life.
clorious autumn days. When her colorimgs Many excellent people are exceedingly are most lirilliant, and the maples took narrow in their opinions, indeed most of
as thoush she had thrown her palete at us find it ditlicuit to see things from
we them.
In the study of art. picturemaking is other people's point of view. We all are
achuaintect with middle-aged men and Which eane tearns harmony of color, ", "omernen, who taste and selection have become so set in their ways and
when
in thas, that they have no toleration for in dress. housp-furnishing, elc.
Then, grouping and composition give a ideas, that they have no tho hold different opinions. Methinks these people had married others of exact
I hear some honest son of toil deride the ly the same tastes and habits as they study of art in rural homes, "ILeave that thomselves had, they wowld have becowe
to the city folk", lut 1 say-not so! It imore narrow and intolerant than every
 Amid the boys, won't they be interested ? sat gather when tie been outhours masriages between persons of there are few, if ary, betwen as they "atch the ticture grow, and wife, who at first were totally dit
understonly their "Cee" but who would
iurent, as years go on mow more alike have thousht that old fince and them leficiencies of character in one, are sup- $\begin{aligned} & \text { Their children }\end{aligned}$ ture ..... which a pretty pickemented by the other. Their ch. The
 moy tine art and literaturw, which th meaning: "The cause of the wretched organization, ideas, taste, education, pur
suits and association, which similarity almost invariably terminates in domestic
ald
and
The huspand
and


MARCH 11, 1909
 may expect, a development bright with
intelligence." Young poople of complotely different
toward those of
it we stop to think, we can haracter. If we stop the think, we can
recall numberless instances of men whon tave lowed women totally dimerenn to.
themselves in every way, and surely our thenserves, when suljiject to reason, are
instincty, safe evides.
In all the essentials of religion, howIn all the essentials of religion, how
ver. husbond and wif should think alike.
 Cancer it is as well th difier. There wil
be less danger of either beocming narrow: and narrowmindedness in reiligion is th
most common ns well as the most ob
lectionable form of narrowmindednoss
form
 Our Literary Department For pleasant is this flesh Our soul, in its rosemesh
Pulled ever to the earth, still yearns would we Would we some prize mig To match those manifold we did best !
I.et us not always say
Spite of this nesh to-day

I strove, made hend, gained $\varepsilon$ round upen As the bird wings and sings
tot we cry, "All good things


THE FARMER'S ADVOCATE Kindly s.nd papers so that they may then cease to exist. To be content, no
received at his ollice on or before to have doubt and dissatisfaction, wer
to place ourselves on a level with the e received at this ollice on or before to have doubt and dissatisfaction, were
to prilace ourselves on a level with the
licallts of last study will be published brutes, that, having supplied their bodill Results of last study will be published $\begin{aligned} & \text { brutes, that, having supplied their bod } \\ & \text { wants, are satisfied } \\ & \text { nas soon as possible. }\end{aligned}$ "Let us be glad that we are allied
 The following essay, submitted in Study
shows a very clear comprehension of the selection then given: It is the last
 Therein
ruly God-like.

- Give, give, be always giving.
The more we give, the more we live.

We are, indeed, "more highly blessed than beings who only receive of the good-
ness of God, instead of being God's coness of God, instead of being God's
workers."


A Modern Kitchen.
ote convenient working table, also hood
over the range, to carry off steam
and odors.
ontributed towards this development, contributed towards this development,
and these and all later experiences will and these and all later experiences will
co-operate towards some great end. Man's life is planned from first to last
by God; a Divine purpose overrules all. by God; a Divine purpose overrules all.
We do not attain full development in We do not attain filerstand God's puryones, as clearly as in after life. Let us trust God, who knows towards what end He is shaping us, and confidence.
"Amidst the hopes of youth, there is Amidst the hopes of youth, there is
diffculty in deciding what ideal is to be
followed. The soul reaches out towards difficulty in deciding what ine soul reaches out towards
followed. The given powers, no ideal is too high. Thus
great souls find it difficult to decide

The Coming Good.

```
Perhaps-some day-
```

Through all the striving and the hur-
ried rush,
Through all the cares and all the things
that spoil-
Perhaps some day we'll get the rhyme
Metre and poise and all, perfected dream,
Ferhaps, ward the light,
We'll find the primal and the final Gleam.

The good we
'Tis little.
But again, 'tis much
For see-the hindering circumstance Earth-clogs the fine machinery of heaven's
design,
And men work slowly toward their clearer And good grows, not as doth the beacon From hill, to hill-
Till all the night's ablaze

But slowly . gathering might,
Deep, far, far out of common sight As doth in crevised rock, With faintest silver tricklings, Unheard and caverned murmurs,
Gather its crystal and its strength Gather its crystal and its strength,
The mountain, spring-fed stream-
brush the crumbs off, feed the cat, wash
the dishes, prepare the children for school. put on the wash-theiler, fill it full of
water, rinse out the tubs and fill them water, rinse out the tubs and fill them
with water, collect the soiled linen, wash with water, collect the soiled linen, wash
for two hours, wring out the clothes, hang them on the line to dry, and then prepare for the Peel a dozen potatoes, a dozen onions,
a bunch of beets and turnips, cut up a five-pound cabbage, and chuck in enough corned-beef to fill a horse, and set the whole thing boiling. Prepare the table four or five callers, listen to the hot air of a gay book-agent, brighten up the that time dinner will the stove, and by After dinner clear the table, wash dishes, sweep the dining-room and kitchen,
sew a button on Jimmy's waist, attend sew a button on Jimmy's waist, attend
to the hole in his trousers, change Lizzie's dress, wash their faces, and they re ready for school again. After this short breathing spell, dust the sitting-room, sweep the parlor, darn
dozen pairs of socks, cut out a new pair of trousers for Jimmy, fix the lace papa's pants, and entertain one or two
It is now four o'clock, and as the sun has been shining brightly all day, why, the clothes must be dry, so go take them
the in, sprinkle and fold them, and then for
the last meal of the day; but you have orgotten the chamber work; so go uptairs, make the beds, and tidy up. After this, begin to prepare the evening
Get the fire burning briskly, thix up the flour for the biscuits, place same in oven, chop up the meat and vege-
tahles left from dinner, put in the spider and fry. Again prepare table, call the
children from their play, wash their face and hands, and then sit down and enjoy a well-cooked meal.
After supper clear the table, wash children to bed, iron the clothes till 10.15, when you can read the morning paper and converse a few minutes with
the members of your family who have not yet retired.
Before you leave for your bed, empty the pan under the ice-chest, put the cat
down cellar, doors are locked, and you will heve fin ished a day's work that any woman wo back to the iron foud think you will gice and a heart full with a long woman whom you thought had

The Ship Sipen.
Across the fog, across the rain, ing,
heard the voice, again, againvoice that is calling, calling
calls me where the rivers rue for over: And the steamer's mast to the mid-day Is shadowless on the river.

You know," it cries, "how morninge In smoke from untrodden islands atream.

Knd long waves roll from a southera posp,
Remember where the desert lay-
Purple desert beside the sea-
nd barren mountains round a bay
nd barren mountains round a bay
And a storm-crowned promontory
nd how the midnight draws her broath As the sleeping sun returns on nd pallid water sleeps beneath
A pallid dome of sky.

Ah! leave the crowd that howls below
Crowding houses on either hand.
The streets are wide by whi.
To a wide and silent land.
By a silent road l'll $^{\prime}$ bear you home.'
From London dock the siren's calling, Fome to the seas, to the desert comel' And I lie enchained in a London room-

THE FARMER'S ADVOCATE.

Pastels in Prose.
". The Fete Dieu was then one of
the great events of my life : To
deserve to take part in it it wns deserve to take part in it, it was
necessary to show myself diligent and obedient a long time before-
hand. I still recall with what raphand. I still recall tures of got up on that day. There was a holy joy in
the air. The neightors, up earlier
than usual hung clothes strewn with flowers, or fixyured tapestre, along
the street. I went from one to another
$\qquad$ The Middle tyes, mythological com-
positions of the Renaissance, old bat tles arranged in the st, le of louis
XIS., and the pastorals of Madame de Pompadour. 1111 this world of
phantoms seemed to come forth from the cust of past ages to assistmotionless and silent-at the holy
ceremony.
ternate fright and wooking with al wonder at those ternate
terrible warrions with their swords
always raised. those beautiful huntresses shooting an arrow which
never tlew, and those shepherds in never tew, and alwass occupied in
satin breehes alay
playing the flute at the feet of the playing the flute at the feet of perpetually smiling shepherdesse.
Sonetimes, when the wind blew be-
hind these moving pictures, it seemed hind these moving pictures, it seemed
to me that the figures themselves
moved, and I watched to see them moved, and watched to see weml
detach themselves from the wall
and take their place in the procesand the But these impressions we
sion!
vague and fugitive. That whi vague and fugitive. That which
dominated everything was an ex
pansive, Jet tempered joy. In the
midst of these nloating draperies, of pansive, set tempered joy. In the
midst of these lloating draperies, of
these scattered towers, of these ap
peals of the maidens, of this glad-
ness which, like a perfume, exhaled from everything, one was carried
away in spite of oneself. The sounds of the festival were repeated in your
heart in a thousand melodious echoes. One was more indulgent, more holy, more loving
not only maniesting
out, but also "ithin us.
". And what improvised altars ' what floral arbors : what triumphal arches made of foliage! what
competition anong the different cancompetition anong the different can-
tons for the erection of the resting-

tribute what he had that was rarest
and most beautiful.



























cherish it always, as the record
the first victory won over myself$4 x^{2}=\mathbf{x}=$

1icu, but shall 1 find again in it the
happy sensations oi former days hat
still recall, when the procession had
passed, those waths through the $\qquad$



$\qquad$

then, the fullness of happiness of it became, und its shape grew more
these beginnings, seriously con- clear and defined. while one could
sidered, nothing is semsibly changed bear to look at it, like the moon.


There "as the whole secret of my
happy security. Since then, worldly
guardian of my fate, 1 wished to be-shook themselves a little, ieelfar foresight. I have tormentedfew minutes the fishermen pulled in
their limes, hand over hand, throw
uture I I have put my judgment insplit and flattened them.
The little fleet of l'aimpol fishing
waters. Here and there their smalhaps an important lesson in Him sails appeared in the distance, sat a
knows tut that more trust in
who pules the world, would have a matter of form-for there was not
may be that happiness is not pos- ..... line of the horizon. To-day itsible here below lut on the condition
of living like an child, fiven up to the
duties of each day, and confiding for
Jean Francois de Nantes !the rest in the gootness of our
they sang- the two big children.**
uhite calm.
inotionless.
hich hase lacross a harge flat stonehad vanished away.
The heavens wert covered withat its whew ver valg, darhening a near the horizon
into a hind of leaden-prat - the colo
foll till And underneath the ins cer told you it had been you not, in obectience to a kindand made om, shiver: the scoa lookenchancing rippics plasing over its when she says to. herself. 'It's donlikeoth surface litle delicate flats an odd revelation, and what an unWhole elitering "xpanse of waters a small community the surpryse texist.Intedimte designs, interlacing and of until the sudden dismay and scatter
facing each other, quickly coming and ing among its members producedIt was impossible to say whet her
it was eternal evening or eternalhorizon, as if presiding over th
feen hlowhed together ironed: hideyitself hardly motw than $n$ iormles
disk, immeasumblh enlarged hy th
waverine halo which surrounded itlong, just where sou found it, wit
the grass forming a little hedge ating there longe enough, insinuate-20.20
cor
can find
found the walking forn one ever did no

THE FARMER'S ADVOCATE.
MARCH 11, 1909
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|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  | cisive gazing ; not by a first casual | ject its essential character. This is just as necessary to the naturalist |
| relics picks them up in every field | of them, l , ${ }^{\text {nized, }}$ because the eye had been | glance, but by a steady, deliberate | as to the artist, or the poot. The |
| he walks through. | commissioned to find them. On an- | aim of the eye, are discovered. You | sharp eye notes specific points and |
| the trea sroson especially the tiny | other occasion, not long atterward, | must look intently and hold your | diflerences-1t individuality of the |
| pipers that one hears about | was hurriedty loading on mos of ov | eye firmly to the spot, to see | thing."-\|John Burroughs, in "Sharp |
| woods and brushy fields-the hyla | the October wods, irrel that was fast | than do the rank and file of mankina. | Eyes." |
| the swamps become a denizen of | taking a gray sh the tree-tops, when | The sharpshooter picks out hertainty |  |
| new ; in had never seen him, having | one of these Liliput fro | from a stump, or a rock, or a cap | puctor (to patient)-Your case is a |
| them in mind, or rather being ripe | of the fast yellowing leave | The phrenologists do we | on |
| for tham. I several times came across | near me. | to locate not only form, color, | tation hau beler |
| them. One Sunday, walking amid | the corner him, because I had alrea | weight, etc.. in the region of the eve. but a faculty which they call in- | l'atient (too sick to care for anything) |
| some rushes, I captured two. ${ }_{\text {l }}$ leaped bafore me, as doubtless they | him my own. | iduality-that which separates. | - Very well, doctor, have |
| had done many times before, but | fromer | discriminates, and se |  |
| though not looking for or thinking |  |  |  |

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& \text { THE } \\
& \text { forl }
\end{aligned}
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The Expense of Condiments

## The Golden Dog

(Le Chien D'Or.)
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lowest price.
ing rest upon her, wherever she may
be ! '. La Corne St. Luc spoke with
a depth of a depth of emotion he rarely mani-
fested father ". whow she unfortumate, godfather?" Philibert watched the cheek
fush and the eyelid quiver of the
fair pirl as she fair girl as she spoke, carried away
by her sympathy. His heart went with his looks. Alas ! "' replied La Corne, ". trust the moral governinent of the
universe.
lsut we are blind creatures. and God's ways are not fash ioned in our ways, Let no one
boast that he stands, lest he fall We need the help of the host of
Heaven to keep us upright and maintain our integrity: I can scarcel.
think of that noble girl without think of that noble girl without
tears. Oh, the pity of it! pity of it !.: Tilly looked at him won deringly. " I knew the Maron de
St. "astin," said she. "When he came to, perforn homage at the Castle of St. Louis, for the grant of
some lands in Acadia, he was accomsome lands in Acadia, he was accom panied by his only daughter, a child
periect in goodness, grace and lovelincest She was just the age of
Ametio. The ladies of the city were inctie. The ladies of the city were
$\qquad$ him orne st. Luc, half angry with
ful topic, and not brached the painful topic, and not used to pick his


THE FARMER'S ADVOCATE.


ander this heading Ai two tont will ber word emed



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for legs than 30 cents.
A NCONAS- Best layers in existence. Eges
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Current Events.





Wireless messagns were successfully
received in a train between Buflalo
and Chicago, whili". the train was
rumning at the rate of $6: 3$ miles an
The duty on lumber admitted to
the linited states has been placed
the linited states has been placed
at \$1.50 per thousand, a reduction
of 50, cents per thousand on the
Survia, in accordance with the ad
Survia, in accordance with the ad
ice of the Powers, has withdrawn
hur demand for territorial compensa
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HAVE YOU SECURED OME OF "THE FARMER'S ADVOCATE" PREMIUMS
HAVE YOU SECURED ONE OF "THE FARMER'S ADVOCATE" PREMIUMS

The annuat show and sale of Shorthor in Felruary, was, evidently, very successages were calculated as from December st, 1907 , and the dividing line between
the two classes was March 1st, 1908. In

the older class, the winner was ©. M.
Cameron's Balnakyle Maxim, a roan, by Finlayson's Throsk Broadhooks, roan, Mry Holyrood, was second. for 320 guineas.
winner sold in the sale for 10 Mr. D. Mclernnan. for South America:
the second for 5.50 guineas, to the same In the younger yearling class, Messrs.
Ieterkin won, with Hope of Dunglass, a Moyal Hople, and said to have been the
hest luill in the show. He sold for 410


 Cered. Throsk being next, with foulls which
veraged 1176 . The 274 bulls sold aver-

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Mills at Winnipeg,
Goderich, Brandon.





 Nichnel: : tirst-prize ayed mare, Paition
Sorais, was the reserve championship
furmale. and the iunior champion female

 and Varl V.kerton of Tatton's Tatton
Dray King, second. In the class for
stallions. any ake aloove ten years. Messins. Forshaw were first, with years.
Men-
year-old I.ord Mayor 11 .. and Lord Nitctleton second, with vormoor Victor.
of the same age. In the three-year-old



## ${ }^{\text {the }} \mathbf{C}$. J. Daniels Milling Co., tid Mills: 666 Queen St. East, Toronto, Ont.


 Erains and seeds. No waste products or inferior materail) of any ketid will be used in their manulacire By the uise of special mashinery 1 am able to guaran'ee perfect mixing. An ordiany miln ery positively cannot doplicate nor equal these specialy preperared and properisy.balanced $\%$ ood.
 they are recommended You can't aford to ceed sour ences wian poor foos. Dont thall bay of spiced beff scraps

Meat food is needed for the proper development of the chick.
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hey need. A small bag of spiced beef scraps goes with Scratching Food carton, 25 cents. My object in makiug up these cartons is to give the person who keeps a half dolen hens or raises a for
and chance to test the quaive me his name, and I will see you get it. ot carry my dor
NURERY CHICK FOOD in $100-\mathrm{lb}$. bags, $\$ 2.7$

GRIT AND SHELL
Fowls baving no teeth, grit is necessary as food-without it the food cannot be digested. Price of DIAMOND GRIT, Fents per 100 lbs ., or 60 cents per 100 lbs . with feed orders; (wo sizes, chick and poultry. Pice of STER SHELL. 80 cents per 100 lbs., or 65 cents per 100 lbs. with feed order. DANELS' CRUSHED CHARCOAL. Keeps poultry healthy, No poultry plant, be it ever so small, is complete without Dan hedrop-board. Guaranteed to kill all smells in poulliry prevents disease. We sell it so cheap that it can be sprinkled over the drop-baard.
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## QUESTIONS AND ANSWERS

 2nd upestivns should ie clearty state




cement for house wall

ei bht inchen thich


## SIMMERS' SEEDS



LSIKE STRAW FOR FEED WOOD ASHES ON CLAYMALAND CLOVER MIXTURE-DOES TAPPING TREES SHORTEN LIFE?

1. L.ast Seprtember I had eight arree at red clover for seed, which I cut one
day, and pot in the next. It was tine ay. and mit in the next. It was the
eather, and dry. 1 threshed 15 bushels If sect, and ! am mixing the clover chan wood feed for stock-as good as chop on I I hink. "ould 1 cut alsike in the Wed for stock after being threshed. 2. Does wood ashes improve the quality kept in a brick, dry place?
$\qquad$ nould you recommend?
2. what proportions of red clover, al sike and timothy would you recommend er ten acres for a good hay; also for 5. Does tapping maple every year
horten the life of the tree?
bw Ans. -1 . No doubt the clover chan
(rom crop sowed as an
 can be as good as chopeded grains Thercely The
protein conta ined. however, makes

 desirable for teeding purpoces. 1 sh seems

 Sils heranue of the action of the link
amtained Th. Walue will depend o.
and


 vertion in "The Farmer: Adocate"
$\qquad$





GOSSIP
trade topic.
have you secured one of "the farmer's advocate" prem ums
marce 11, 1909
QUESTIONS AND ANSWERS Miscellaneous.

RAPE OR ARTICHOKES. I have two yards which I have ar-
ranged for pasture crops tor hogs. Each contains about three-quarters of an acre.
which would you adviso as the most profitable crop? I thought of rape and
artichokes, but I wouldn't get much tre artichokes, but I wouldn't get much from
the artichokes until fall, would 1 ? Ans.-Why not sow one yard to rape and the other to artichokes? The rape could be used for summer pasture, and in sep-
tember the artichokes would be ready $\wedge$ great deal would depend on the nature and condition of your soil. With fairly rich loam, it would be difficult to select better crops for summer and fall ieed
than rape and artichokes. One obiction than rape urged by some swine men who
to rape
have tried it, is that the rape causes an irritation to the skin, especially about the ears. This is believed to be due to pas-
turing when the rape is wet and its cells turing when the rape is wet and its cells
turgid with moisture, the stif teaves causing an irritation, aggravated by some property or other in the juice of the
rape. ${ }^{\text {By pasturing when the rape is }}$ rape. By pasturing when the rape is
free of dew and slightly wilted, the trouble seems to be
greatly minified.
CORN FOR RU'SSELI COUNTY. 1. What varieties of corn and how
much of each would you advise sowing for silo purposes? 1 intend putting in eleven acres of corn
2 . What do you recommend, sowing in
rows with grain seeder or marking the rows with grain seccer or both ways and planting with plant3. How much corn is neecessary to seed an acre in each of the aforementioned systems, and how many grains the latter ? 4. What variety of corn deding to dairy
sowing for early summer feed
cows. and how early should same be Ans.-1. Longfellow, White Cap Yellow lent, or perhaps Early Leaming, should
suit your locality. Ascertain what your sult your locality. Ascertain what your
neightor's experience has been, and choose the latest varicty to mature to the late dough stage.
2. Each system is favored by many. can the planted more thinly, usually ears hetler, and is easier to harvest with hoe
or sickle. Mark the field in squares $3 \frac{1}{1}$ a.t With good strong seed a bushel of average corn will sow four or five acres
thickly enough for ensilage purposes when fuantity sown would be greater. The on the quality of the seed. Four or five 4. Any of the varieties already men-
tioned are suitable. Sow as soon as the ground is fit and danger of serious frost AN INSPIRATION FROM CASEY.
The women of the church in a suburb in Chicago were soliciting money to pay They were told, diplomatically, that if they would call on Casey, who kept the leading saloon in the village, they might
get a good donation. They called. Casey met them genially, listened to
what they had to say, and promptly subwhat they had to say, and promptly sub--ribed five hundred dollars. This was ofined for that they were much flustered, nd could do nothing but stammer their
Finally one of them rounded Finally one of them rounded
anks.
and said: "Why, Mr. Casey, this is别 generous of you. It will allow us ret What we want very much-a fino Ming to do. Casey." said the spokesman, "in view of this magnificent doto put on the window, some sents nt or some remembrance, or somectic Tell," said Casey, "I think it would
foine to have on th' glass, bechune
firo tarts av it, in nate letthers tuo parts av it, in nate letthers
.

THE FARMER'S ADVOCATE.
GOSSIP.
The British Royal Commission on aninal tuberculosis has just issued its third
interim report.
The report states that tuberculosis of the udder is comparatively common amongst cows, and that milk
from such a source is dangerous to human rom such a source is dangerous to tuman
beings. Milk drawn from infected udders contained tubercle bacilli, even when drawn through sterilized cubes. The experiments indicate that the excrement
of cows suffering from tuberculosis of the of cows suffering from tuberculosis of the
lungs, or the alimentary canal, is much
and more dangerous than discharges from the
mouth or nostrils.
The presence of inmouth or nostrils. The presence of in-
ferted cows in company with healthy cows in the cow shed is said to be dis-- _ For the first time in six years, British grand total for 1908 boing a decline, the
$\$ 101,000,000$ less than in 1907, which was an excep-
tionally prosperous year. How dependent Britain is on outside sources for food
supplies is shown by the enormous figures supplies is shown by the enormous figure
relating to the principal necessities. Grain and flour imports reached a cluding animals for food, exceeding $£ 49$,
oun .000. $000,000$.
wheat
and of maize, $33,841,000$ cwts. were re ceived. Cattle numbered 383,130, against A.2,015 in 1907-a considerable iecrease Butter imports were practicaly chese
changed at $4,211,195$ cwts., but che
showed a slight. decrease to $2,306,086$ cwts.
Bacon increased slightly, to $5,685,742$ Bacon increased slightol, were $\tau 19,074$,
cwts. 887 pounds. The total imports for the year were
valued at $£ 593,000,000$; exports were Valued at $£ 593,000,00 ;$ exports were
$£ 377,000,000$, and reexports, $£ 80,000$,(000, and the total external trade was thus $£ 1,050,000,000-\mathrm{a}$ stupen
ness, in spite of the decrease

The further conference in Britain on the meat-traders' demand, that farmers warproved abortive, and no settlement was reached. The deadlock came upon the
question as to upon whom should fall question as to upon whom should fall he cost of the insurance. It remainer the Meat-traders' Federation wifl carry out their threat and boycott all British-bred moat unless sold
with a warranty. Agriculturists do not With a warranty. Agriculturists do not Action has been taken locally in sevbral cases. In the and auctioneers have formed a joint protective association, with an assurance scheme to cover the
cattle warranty question. The Newcattle warranty question. $\begin{aligned} & \text { quen } \\ & \text { castle } \\ & \text { Farmers' } \\ & \text { Club recommends that }\end{aligned}$ sixpence be paid by sellers, in addition to the usual "luck" shilling, and that
this one shilling and sixpence bo paid as a premium to insure against loss.
morris Company coming to An important deal is reported to have
been carried through in Calgary, Alberta, been carried through in Calgary, Alberta,
by which the Morris Company, of Chi-
cago, have acquired the entire holding cago, have acquired the entire holdings
of the Dominion Meat Company of that city. The Morris people are reported to city. buyers of a large tract of land near
Nose Creek, northeast of the city, where Nose Creek, north-east of the city, where
the plant of the Dominion Meat Company is located. of the business has not been made public yet, but the change is expected to take
place shortly. It is reported that explace shorty.
tensive additions will be made to the
plant. The new abattoir will be built and very large stock-vards laid out. A large piece of property will be set apart
for homes for the employees of the company. It is reported also that one block of 160 acres has been purchased at $\$ 200$ bought at $\$ 300$.
"Mrs Puget doesn't seam to like Mrs
Pinkley." She can't forgive her.
"No.
"Why, what was the trouble?" cook and Mrs. Pugsley coaxed her her leave Mrs. Pinkley. That few months.

## Faded Curtains and Draperies Made New with Diamond Dyes.

"For the last eleven years Diamond Dyes have been special home favorites with us, and have been a source of home comfort. Two weeks ago Iwo pairs of fuirsty and faded cream lace curtains a delicate shade of light pink for bedroom windows, using your Diamond Dye Pink for Cotton. I also dyed a pair or tapestry portiere curtains, which after five years of wear had become very faded and unsightly. This pair I dyed a rich garnet, using Diamond Dye Garnet for Cotton, I may say that in my estimation, Diamond Dyes are the best I hav Mrs. Emma M. Sharpe. Toronto, O


Read Mrs. Wilkinson's Experience
"When we furnished our house two years ago, I bought old-rose draperies for between the doors, and old-rose silk sash curtains for the library and dining-room windows. They were very pretty, but began fading within a

This spring they really looked so bad that I thought I would have to get new es. Then thought of Diamond Dyes and decided to try dyeing them all dark green. My husband laughed at me, but when they were fie restful." they were a good deal prettier than the old-rose and so much more restul.

## Important Facts About Goods to be Dyed:

Diamond Dyes are the Standard of the World, and always give perfect
You must be sure that you get the real Diamond Dyes, and the kind of Diamond Dyes adapted to the article you intend to dye.

Beware of imitations of Diamond Dyen. Imitators who make only one find of Beware of imitations of
dye, claim that their imitation will color WYon, Silk or Coton ("all fabrics") equally well. This claim is false, because no dye that will give the finest ressits. on wool,
Silk, or other amimal fibres, can be used as successfully for dyeing Cotton, Linen, or other vesetatite fibres. For the reason we make two kinds of
of
other namely: Diamond Dyes for Wool, and Diamond Dyes for Cotton. Diamond Dyes for Wool cannot be used for coloring Cotton, Linen, or Mixed Goods, but are especiall
take up the dye quickly. Diamond Dyes for Cotton are especially adapted for Cotton, Linen, or other vegetable fibres, which take up the " Union Goods," are made chiefly of either Cotton, Linen, or other vegetable fibres. For this reason our Diamond Dyes for Cotton, Linen, or
Cotton are the best dyes made for these goods.
Diamond Dye Annual-Free. Send us your name and addreess (be sure to he sells Diamond Dyesk), and we will send you a meny on ofhe
of the Direction Bookk, and samples of dyed cloth all FREE.
wells \& RICHARDSON CO., LIMITE 200 MOUNTAIN STREET, MONTRĖAL. P. Q.


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QUESTIONS AND ANSWERS. Veterinary
luxation of patella Two-year-old colt, after being hept is
the stable overnight. has ditliculty in moving his hind log. I can hear
macking sound.
crat Ans.-The stife bone becoues partially or completely dislocated. You will have
to Ulister the front and inside of the ioint. Make a blister of an drams each
 hair of the parts, tie so that she canno
bite them. Rub well with the blister inte them. Rub well with the bister
once daily for tao days, and on the third
dive day apply sweet oil. Turn loose in hox
stall and oill every day. As son as the
 and anter er that bister once every four
weeks until she is turned out to pas.
miscellaneous
it is now had distemper when a suckers old and hats n tir charge from one nostril.
2. Mare was driven hard last summer,
2.
 lame but gets some better atter going a
mile or woo

s. Cow had hree altachs of indiges| tion an |
| :---: |
| cood to | good tonic.

Ans. 1 . The colt has Ans.-1. The colt has nasal gleat ant
which is harrt to treat.
enaive 40 grains each of sulphate of corper and sulphate
of iron twice daily. if this does not cause an improven.rnt in a month, get
your interinarian to
examine it, as it may he neressary to twriorm an opera-
tion.
a. She is leme in the feet. Her coro-
 h., hair off for two inches in height nil rest. if youk nes yon can allow her


$\qquad$
 tine. ather which oun patssed some womens
and seemem hat lit le better, tou the other
 other colt sud it is doing better. What Ans-The bots did not kill your colt:
neither dild they rat holes in the stomach. It you had examined carefully those that
stiil clung to the stomach, you would
 Prase onf with the fiveces. They don't
cause sichnenst, except in rare cases where They exist in very larger numbers and let
rain large numbers, and forming a ball


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QUESTIONS AND ANSWERS
Miscellaneous.
KICKING THE STALL I have aratt mare that has acaineof tho tithy legs. i $^{1}$ have trated her top
 to brat her or that hal
Harch tith issuece page set.
TRUSTEES OF RURAL
May a member of the township counc
F. B. Ans.-There is nothing in the Onlario
Schools Act prohibiting a trustee from
acting in such capacity. The Municipa acting in such capacity The Municipa
Act, however, states that a school rus tee of an urban municipality may not a
the same time serve as a municipal councillor. No prohibition, however, exist
against rural trustess serving in similar against rural trustees serving in similar
capacities; so the answer to the questio capacities; so the answer to the question
Is "yes." A. H. U. COLQUHOUN. COLIC, BLOAT, INDIGESTION. Please give good remedy for

1. Spasmodic colic.

## 3. Bloat in cat

$\qquad$ Ans, -1 . In ordinary cases of spastrodic
colic. a simple and generally effective rem-
ody is: Raw linseed Raw linseed oil 1 pint, spirits.
of turpentine 1 oz., or 4 tathlespoonuls.
A favorite remedy is tincture of lauda favorite remedy is tincture of lauda
num and spirits of turpentine 1 oz. ablespoonfuls) of each, ginger 1 table
pooniul) baking soda 1 tatlespoonful
piin ill a ainnt of warm walur and five as a drench
2. for flatulent culic. first remove by
hand contents of the back bowel, then hive contents of the back bowel, then
sivections of half a pail of lukewarm
water. with a little soap, and a tableatar. With a hittle soap, and a table
iponiul of sprits turpentine in it.
Ind
 hoat in cattle, spirits turpen



How a DAIN HAY LOADER and DAIN SIDE DELIVERY RAKE More than PAY for Themselves in One or Two Seasons
 4,








第気
 준준 rxizaze





DAIN MANUFACTURING CO.

hand-rubbed, blanket him well, apply
mustard-plaster to the stomach. If reliel mustard-plaster
does not come in an hour and i a , pall give a drench of aloes 8 drams, spirit nitre 2 ozs., ginger 1 tablespoonful, hal
ing sodza 1 , ing soda 1

PASTURE FOR PIGS. Cun you inform me if rape will makre Can ior hoge it so, wher is the best time to sow $\mathrm{ut}_{\text {; }}$ or is there any other seed to be sown in the sprina that would make good pasture for hogs? Ans.-Rape makes good pasture fon pigs but an earlier, and perhaps better pa ture, is a mixture of aats•and vetche Which may be sown as early, es the lan is fit to work. Two or three bushels of oats to one of vetches, or two of oats, a good mixture Rape vetches, makes with this mixture (as the seed is cheap) the acre, and may or four pounds to the acre, and may help the pasture later
on. Rape is, how alone, and in drills about 22 inches apart, at the rate of two lbs. per acre,
and cultivated more rapid growtween the rows to cause soil, bit may do well sown. broadcast at the rate of fourior five pounds per acre. It is generally sown in June, but, may
be sown any time in May if the land in good condition. CROSS BREEDING - PERMA NENT PASTURE-ARD.

1. Is it advisable to cross a pute-bred
Holstein cow with a purebred Ayrshire buil? I beavy clay feld whth m thinking of seeding to permanent pas ture. Would alfalfa, mixed with red clover, make permanent pasture? 3. Would you advise seeding an or
chard to alfalla?
SUBSCRIBER. Ans. -1 . Usually not, if there is
registered bull of the same breed within registered bull acces reasonable access.
2. The alfalfa might prove fairly per-
. manent, but the red clover certainly
would not. Even were one sure of main would not. Even were one sure or yala
taining a good stand of alfalfa from year to year, it would still be open to objection from the standpoint of a grazing
meadow, as there is a certain degree of meadow, as there is a certain aegree
risk of bloating from cattle or sheeppastured on alfalfa alone. Mixed with
grasses, the danger is obviated. We would suggest a modification of Prof Zavitz's permanent-pasturo mixture, which
is orchard grass 4 lis ihs.. tall oat grass 3 lbs., timothy 2 lbs
 alsike clover 2
making a total of 24 whito clover 2 lbs. making a etal oold recommend sowing 1 1b. less of ach oi the grasses, and 5 lhs. more alfalfa seed.
3. No: alfalfa is so deep-rooted that it robs the trees of plant-food and moisture,
thus serioualy iniuring them and in soine thus seriously injuring them and in some



Vinemount Creamery FOR SALE Thomas burrows，Autioneer，will sell Butur $\&$ Chesese Factory，on
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seed Barley
JOHN ELOER，Hensall，ont

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 herein) enclosing price quoted. It will be steads in Canada on the SAM

 reaches your freight
de we have a
depoter in your locality
dealer 6 UALITY BEDS ${ }^{\circ} \begin{aligned} & \text { that looseness and } \\ & \text { rattling so COMMON } \\ & \text { in OTHER Bedsteads. } \\ & \text { I Then, too, "QUAL }\end{aligned}$
 him. A After you use the
Bedstead 30 DAYS, if in YOUR opinion, it MENDDOUS degree of heat - then
is not exactly what you want, we will RE- subjected to the most SEVERE SE-
SRETESTS. This PREVENTS $\begin{array}{lll}\text { is not exactly what you want, we will RE- } & \text { subjected to the most SEVERE } \\ \text { FUND YOUR MONEY. There will be NO } & \text { CRET TESTS. This PREVENTS } \\ \text { Thip- }\end{array}$ FUND YOUR MONEY. There will be NO
expense on YOUR part whatsoever-not ping, stickiness and soiling, which is UN-
even return freight. There will be no "ifs" AVOOIDABI.E in ORDINARY Bedsteads. expense on freight. There will be no "ifs" AVOIDABIEE in ORDINARY Bedsteads.
even return
nor "buts" about it -no excuses or reasons
QUALITY" Sedsteads may be WASHED why you should keep it. YOU will be the as OFTEN as desirable
judge-not us. I That sounds like a fair injury to enamel or brass.



## Every Farmer ought to know more about Paint

 tects wh tects a dilapidated barn will protect neither stock, crops nor implements. Dilapidated implements will not do the best work. Exposure to weather causes the greatest dilapiaa eana good paint is the greatest preventive of the effects of exposure to weather.The successful farmer uses paint upon his house, barn, agricultural implements and wagons to make these his farm. longer. The longer they last, the more the por even enough to It is not enough to apply paint. paint

Sherwin-Williams Paints and Varnishes offer to the farmer paints and varnishes each one the best for its particular purpose -wagon paint, implement paint, barn paint, paints for the each side and outside of the house
peculiarly adapted to its use

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Sherwin-Williams PRODUCTS FOR FARM USE S W P. (SHERWIN-WILLIAMS PAINT, PREPARED) - for preserving good s.w cketosote paint

8-W BUGOY PAINT-for refinishing the carrigge.
S-W WAGON AND IMPLEMENT PAINT-for pro
S-W WAGON AND IMPLEMENT PAINT-for preserving farm machinery.
S-W ENAMEL LEATHER
S W
PARIS GREEN , -for preventing destruction of crops by insects.
S.W PARIS
S.W ARSENATE OF LEAD
S.W MEDICINAL LINSEED OIL - for treating and $\begin{aligned} & \text { or } \\ & \text { other live stock. }\end{aligned}$


MILK COOLING TANKS


THE STEEL TROUGH \& MACHINE CO TID TWEED, ONT

QUESTIONS AND ANSWERS

chicken and pig ailment

it undship the the freside, they talked of

Chth rope on onpssible to walk safely the

## Every efoyp Lock shingle is made to meet the nequid requirements of the Drition Government for Admiralty and other Siublic Service


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cages.
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Company, a $\$ 200,000,00$ Canadian cor facturers, the Metal Shingle \& Siding
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proration. to put up a new barn or house or to
re -root old buildings is directly in.
terested in this extraordinary free offer.
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ning insurance policy free from conming insurance policy free from con-
dititions of any kind. It is the most
liberal roofing offer ever made to Can-
 half the fire losses on barns in Canada
result from lightning. The property
loss in these cases amounts to many
thousands of dollars every year. Safe Lock Shingles have been on
the market for more than ten years, the market for more no building cor-
and in all that time
cred with them has ever been harmed by lightning.
This proves to us that Safe Lock roofing is a positive guaranty against
lightning lightning.
Anyway, we are willing to show our faith in Safe Lock Shingles and will
protect you from lightning without one protect you from lightning without one
cent additional cost to you, directly or indirectly.
Safe Lock Shingles are sold at the
same price as shingles known to be same price as shingles known to be
inferior in quality of steel, galvanizing and construction.
Safe Lock Shingles lock positively
and securely on all four sides. They and securely on all four sides. They
cannot be blown off, nor can they be cannot be blown oft,
pulled apart through the warping of
the sheeting, or in any other way.
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We want you to know what some of the users of Safe Lock
Shingles say of them Shingles say of them.
R. T. McLAUGHLIN, Fair View Farm, Alba, Ont.-"'The 'Safe Lock' makes your shingles absolutely wind and water proof. The F. B. DOUD, Branchton, Ont.-"The Galvanized Steel roof is apparently as good as when put on in 1898. The 'Safe Lock' Shingles make a lasting, storm-tight roof, and give, clean cistern water.
am satisfied that I put on a good roof." W. J. McPHERSON, Berryton, Ont.-"'The 'Safe Lock' Shingles that I purchased from you ten years ago, have given spend to be just as
ion. The roof has never leaked a drop, and they seem to good as the day they were put on l " J. C. PAYNE, Cayuga. Ont.- "It must be ten years now since I
bought the metal 'Safe Lock' Shingles, and up to this time I have no bought the metal 'Safe Lock' Shingles, and up to this time I have no
reason to regret their purchase. We have had wooden roofs put on reason to regret their purchase orem the splitting and shrinkage of
since which are open in spots for
shingles. No difficulty, so far as I have noticed at least, has arisen shingles. No difficulty, so far as I have noticed at least, has arisen
with your Metal Shingles, and the roof seems compact and durable. with your Metal Shingles, and the roof seems compact and durable.
So far as I have been able to sec, I have seen no wear or injury to the shingles during the ten years, use, and cannot see but that the roof is just as good as when it went on." "
MURDOCK McKENZIE, Bear Line, Ont.-"The 'Safe Lock' Shingles have never given me any trouble, and they appear to be as
good to-day as the day I put them on. I am well satisfied with them, good today as the day I put them on. I am well s. tisfied with them,
as I believe them to be the best roofing that cain be used on barn buildings. GEO. HARDY, Ashgrove, Ont.- "It will be eight years in June
since the barn was shingled. I never had any trouble with it in any since the barn was shingled. I never had any trouble with it in any
way, and it appears to be as good as when put on. I have been way, and it appears

MRS. JAMES STEINART, Pendleton, Ont.- "In reply to your letter asking about shingles I bought from you over five years ago.
I looked the roof all over to-llay, and they seem to be in as good condition as when they were put on the roof. The shingles don't seem to be any the worse for wear, and they will last for years. "
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at ice details of our Fire Insurance Policy payable in cash
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QUESTIONS AND ANSWERS
Veterinary
probably growth on penis. Yearling bull bleeds from penis atter service. Ans.-It- is probable there is a growth
on the penis, and this bleeds. Get your veterinarian to make an examination and
remove growth, if there be one, and if remove growth, if there be one, and if
not, he will probably be able to ascer tain what causes the hemorrhage. He He should not be bred until this trouble
ceases, as the erepated irrithtion is bery
tinule to result in a chronic hardeniny mand thickening of the organ, which may
and
vender him impotent render him MISCELLANEOUS.

 ing. reduced. Ho has long, white worms
2. Three -year-old mare has gone lame 2. Three year-old mare has gono lame.
S. c .
She has sideones. Ans. -1. . Purge with 8 drams aioes and
2 drams ginger, and follom up with
and dram iodido of potassium, three timee
daily.
II this affects his appetite, reduce
 Work after the purgative has acted. For
he worms, take 3 ozs. each of sulphate
 morning, and follow the last one by
wirgative. $\underset{\text { 2. Get your veter }}{\text { olister the sidebones. }}$

## Miscellaneous.

 COLOR OF HOLSTEINS Do registered Holstein bulls, when bredo grades of other breeds. breed true
on -o grades of other breads, breedd true to
olor thlack and white) or will lome of
heir calves bo red and white? Ans.-As a rule, Holstein sires are prither potent in the transmission of the color com-
bination charateristion of the breed, but
as in all in all breeds. variat ions will obca-
ber breeds. Ration for cows balanced ration for cows
-GRAIN For colts. 1. What is a walanced meal ration for
milch cows, quang with tumoth hay
2. What auantity of oats and abran


## Ans-1. Any one of an wide variety of combinations might be sugrested, but

 having regard for economy and the iocty from which our inguirer writes,



## $\underset{\substack{410 \\ \text { and } \\ \text { col } \\ \text { col }}}{ }$

$\qquad$

[^3]$$
l_{n+1}^{n}
$$

It Is No Trouble
To Work Now

So Says Miss Elsie J. Allen
after using Dodd
Kidney Pills
she Sulfered from weakness and Kidney
Irouble, but the old Rellable Kldney
Remedy Cured her Completely.
That the pains and weakness which mako are easily and completely curet by using
Dodd's Kidney Pills, is once more shown Dodd's Kidney Pills, is once more shown
in the case of Miss Elsie J. Allen, of this pine


 soon falt bot ter. It tookk severen nomeo IT can noviruan ma
 strong, and It domit tree any pains at all."

 cose lete cure.
How Wall-papers can correct defects


 to phace his fifger on the wall at the hay Now, wish hio hat noter his figer

 $\underset{\substack{\text { phine cer } \\ \text { height }}}{ }$

This same law of Illusion is made
skilful use of by Decorators in the treatskilful use of by Decorators in the treat-
ment and selection of wall-paper design. ment and as a striped suit will make a
Just as
stut person look taller so will certain peculiarities in wall-paper design make lower and wider $\quad$ Other peculiarities of Color and Design produce a dignified effect, or a
cozy one, a chilling effect or a cheerful Such use is called Treatment," its object being to se-
cure symmetrical effect and pleasing cure symmetrical reom.
proportion in the row
Knowledge of this kind has much to do with success, and with permanent
satisfaction, in Home Decorating. ter Reade Brightling, just published,
should be of decided interest and advantage to Home-makers.

It tells how to use Wall-papers so
as to make a room seem larger, smaller, wider, higher, lower, dignified, or Cheerful, by the deliberate use of Ocular
Delusion in certain forms of design or Delusion in certain
certain colorings.
There are Colorings in Wall-decora-
. tion which convey a distinct impression
of Cheerfulness or Restfulness to the mind, while athers
Depression or Iritability.
Brightling's book entitled , "WallBrightling's book entitled "" Wall-
paper Influence upon the Home", covers
this subject acceptably for popular use. this subject acceptably for popular use.
It supplies information by which
any Home can be made to look cheerful any Home can be made to look cheerful
and restful tat small cost.
The book is well worth a dollar
The though is costs only 25 cents at your wall
paper dalalers, or by mail from the pub-
lishers, Watson-roster Co., Ltd., Ontario
S:.., East, Montreal.


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THE FARMER'S

## QUESTIONS AND ANSWERS

 Miscellaneous Can a person wishing to change his
vost office compel his present postmaster of forward his mail on to the new post
A NEN SUBSCRIBER.
office ? Ans-Any person is al liberty to seloct
a post olire as his address, or to change his address to any other post office, pro-
vided such change is made bona fide that vided such change is made
is. without traudulent intention, and post
and masters are required by the regulations
to conform to any change of address to conform to any change of address
which is recorded with them. It may be said, however, that the post
office expects that when a person changes
his nddress, he will notify his correspond his address, he will notify his correspond
ents in order that his letters may go ents in order that his letters may go
direct to his own address and not con tinue 10 pass through his former post
oflice. and in case of newspapers fron office of publication, the postmaster who
has notified the office of publicatien change of address is not expected or re
quired to iorward newspapers to a ne address after three months.
MISREPRESENTATION OF COW

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ing. Invaluaber
FOUNDER,
FIIND PUFFS,
DTPHTHERTA,
RINGBONE
PINK EYE,
SWEENY.
BONY TUMORS
LAMENESS FROM
SPAVINN
SUARTR CRACKS SCRATCHES, RASIT
Removes
BUNCHES O
SPLIITS,
STRAINED TENDONS.
SATEE FOR AIYOME TO USE

the best for hlisticring



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!NEW IMPORTATION OF CLYDESDALES.
 COMPLETELY SOLD OUT
$\qquad$ clıOESDAES NEW MPORTA about March 10th. My moto is: Qualicy, not quantity.
THOS. L. MERCER. MARKDALE. ONT.. P. OAND STA


2IMPORTED CLYDESDALES


Subscribe for The Farmer's Advocate

## 

 CURED APMRIB WITH TWO Birno at your coilatirs causstc bal

QUESTIONS AND ANSWER Miscellaneous.
ROPY MILK


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\begin{aligned}
& \text { fortably There are several oplen yards, } \\
& \text { with water and feed racks, but no shelter } \\
& \text { from storms. } \\
& \text { f. It is required that a man go with } \\
& \text { 2. }
\end{aligned}
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\begin{aligned}
& \text { 2. It is } \\
& \text { the sheep teed and look after them. } \\
& \text { 3. The expense depends on what amount }
\end{aligned}
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\begin{aligned}
& \text { 3. The expense depends on what amount } \\
& \text { of ced you wish to use. Hay can bo } \\
& \text { orocured from the feed stores or farmers }
\end{aligned}
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PERCHERON STALLION



 information write . CHATEAUVERT. quebec citr. Shetland, Welsh and Iceland Ponies
 E. DYMENT, Copetown P.O. and Sta. Shannonbank Clydesgales, Ayshiresh





 Clydesdale Stallion for Sale Reaing thise


MABCH 11,1909


Sale by Auction ${ }^{\text {At the farm impee miles }}$ Mircitic THURSDAY, MARCH 18th, '09, Clydesdale Stallion


 WILIIAM SQuIRE, Mitchell, ont., Prop.


FOR SALE: IMP. hackney stallion St. Regulus (252) 9000
 Apply to:
JAMES BLACKBURN. CREEMORE, ONT MR. A. I. HICKMAN Coort Lodse, Eserton, Kent. Enstand, exports pedis ree ive sock of every descripion to
 the Roval Glowester. Eng\%, during the weck Ormsby Grange Stock Farm, ormstown, P. Q.

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Importer and brodede ot CLYDESDALES.
bightileo purabred armers or ranchmen , tatring breding clydees Shlres, Shorthorns and Lincolns
 nd Limochs orborh sexex. FOR SALT: Three Rezisistered Clydesade

 O. Bellis Veterinary Mesical womer
 Tantod ine over Teuntil, Writs Kinstion, ont.

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MARKHAM, ONT.

## CLYDESDALES AND FRENCH COACHERS


R. NESS \& SON, HOWICK, QUEBEC.


Clydesdale Stallions and Mares!
A fresh lot has just arrived, including many prizewinners. Some
DALGETY BROS. LONDON, ONTARIO. Stables Fraser House. Address correspondence to Dalgety Bros., CLYDESDALES AND SHORTHORNS. - Both imported






 IMPORTED CLYDESDALES



QUESTIONS AND ANSWERS


SUCCESSION DUTIES-CITIZEN

Antario. $\$ 50,000$.
an - I. varies. acording to circumstances
ananging from ono to ten per cent.
3. Yes. He would probably have to
4. No. No
No
7. The will must be produced and fled With the Registrar of the Surrogate
Court of the county in which the testaompanied by \& Potition to the Court. signed by the Executor, and praying ro Identily ing the will, proving the due oxe
dution or it, the doecth of the testator his last place of residence, date of death
plight of will, value and particulars of astate and property, real and personai-
nd including oath of oxecutor to proprily administor the estate urust also bo
fied. These affidavits must all be care
The fully prepared in proper preseribed forms, and must bo Brorra berore Exmais sine of the subscribing witnesses to the
on
on must all write thelr roeppoctive signatures on the fack of the papers, a
will. With the filing of
ioned to cover the Surrogate fees. Upon the grant being made, the Registrar will notify
Executor, or his solicitor, according as the petition was presented, personally, or
by solicitor, and upon his calling at the office of the court letters probate, which include a certified copy of the will. This
is. roughly speaking. the procedure for obtaining probate in ordinary casee
where there aro extraordinary circum-



 s.im- ind man may leave to his family in Ontario
without having it subject to succession
duties 2. What is the percentage that goes to
the Government ? 3. In the administering of an estate,
would commercial paper. held on property
in a foreign country, have to be given in (where there was a will), same as it it
was situated in Canada? was situated in Canada? 4. In the case of a citizen of anothe country leaving an estate in Canada,
where he had lived for many years, would the administrator of such an estate have
the option of administering same in
s. either country, provided nothing is said
about same in will ? 5. Does the citizenship of a Unit
States subject become cancelled throug long resldence in another country, al-
though holding property there, and going back occasionally?
6. Is a citizen of the United States, owning and operating a farm in Ontario. entitled to voto on any municipal mat
ter?
r.
required
requin
countries.
5. No.


MakeYourOwn Stock Food.

One pound of Barnes English Compound makes ten pounds of stock food, by mixing it with three pounds of linseed meal and six pounds of corn meal. As a conditioner and flesh-producer has no equal. Postpaid on receipt of 50 Oc .,
money order or stamps. Address: S. G. Amsden, Windsor, Ont. F
No HEREFORDS spare some cows and han herers
Special value in bulls and heifers M. H. O'NEIL, SOU THGATE, ONT THE "MAPLES" HEREFORDS

 | W. H. HUNTER, |
| :--- | HOMESTEAD ABERDEEN-ANGUS


 young boll or heifey
can afford to pay
Come and see hem
WM ISCME WM. IsCmE,
Sebringville, Ont elengore 8: One bull 2 year
 ANGUS lot and old right GEO. DAVIS
SONS. ALTON, ONT. Station, C. P. R. Aberdeen- SuFFolk down shefer Angus Cattle. If yoedr, write James bowman, Elm Park. Guelph. One ABERDEEN - ANGUS CATTLE OR SALE. Some of the best strank Several fine heifers; also cows
of bulls. Apply: MANAGER. GRAPE GRANGE FARM, CLARKSBURG, ONT AberdeenAngus wainer hall
Scotch Shorthorns! I am offe ing a few choice young bulls,
also heifers in calf to imp. bull. Will be upon application.
Jehn MILLER, Brousham, Ontario. Greengill Shorthorns ! aid 8. Mitchell $\&$. Sons, Nelson P. O., Ont.

$\square$

Black Watch Black Ping
The Chewing Tobacco of Quality.


THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS. MELEPHONE CONNECTIONS Are the -Telephone Co. obliged A. H. R. HORSE - BREEDING MATTER In 1907 A bred two mares to my sta
on. In March. 1908. A had a sale, and advertised on sale bills both mares in
oal to my horse and sold at sale to be onl to my horse, and sold at sale to be
in foal. A paid me for both mares;
mares leaving the country mares leaving the country. A claims

now nei her mare had any foals and | Wants his money back. $\begin{array}{l}\text { any foals a } \\ \text { I take to protect myself? } \\ \text { Iteps ca } \\ \text { It. C. O }\end{array}$ |
| :--- | Ans.-It does not appear from your

statement of facts that you are under
any liability to A: but it is possible that any liability to A. but in may le such as
your contract with him me money
o entitle him to a return of the mole e paid you, or to some portion of it.
if he should really insist upon it, and
and
you find yourself in danger of being sued, you would yo well for you to consult a GRANTS TO SPRING FAIRS. We are about to organize a spring show
n our village.
Does the Government give a gran
condition ?
Ans.-I beg leave to quote the following clauses of the Agricultural Societies, Act: Section allion show, a spring bull
hold a spring stall
show, or a combined spring stallion and dull show, shall receive a grant equal to
one-half the sum expended in the holding exced $\$ 50$.
of sum show suth sum shall nol
sut (c) Societies that hold a Spring Seed
air shall receive a grant equal to one hir shall receive a grant equal to one
half the sum expended in the holding of
ach fair, such sum not to exceed twenty such daillars. "Societies," as given above
the word
The wole
 ho hold epring fairs. $\begin{gathered}\text { J. Lockie wilson. }\end{gathered}$ drainage-railway fencing A, B and C own three farms in a row,
the sideroad ppassing between A's and
is's farms. The railrond wasses through
A. form, foutren rods from sideroad.
There is an opren drain through C's farm, As farm, fourteen rods frough ©'s farm
There is an orpen drain thround
twenty-five rods from line fence, betwee
and

 exyense for draining sideroad?
3. What stea Nould A have to tahe
o get drain across rallroad, it being the natural watercourse? Company have t
4. Would Railroad Compa
bear any expense, as railroad would b rained, Railsoal Company built a barb-
5. The Rail
wire fence through my farm some years Can 1 order it removed, as it
angerous to my stock?
Ci What steps would I have to take
$\qquad$
$\qquad$
$\qquad$
$\qquad$
 and
and done. int if an angrement cannot b
reached. then the Municipal I:nginn




WE ARE PRICING VERY REASONABLY
10 crivecty bered vous Shorthorn Bulls



AN OPPORTUNITY Sis scupe Yound
MAPLE SHADE FARM. $\qquad$ MYRTLE. C. P. R.
BKOOKLN, G. T.R
BR $i$ can Price for a
Short period Two High-class Young Bulls
 VALLEY HOME SHOR THORNS and BERKSHIRES




MARCH 11, 1909
QUESTIONS AND ANSWERS Miscellaneous.

COAL ASHES AS FERTILIZERFEEDING VALUE OF
THRESHED MILLET.

1. What are the percentages of P2O5 2. What per cent. is immediately avail-
able?
2. How long before the unaval able parts 3. How long before the unaval able parts
become available ? 4. What is
light soils ?
3. What is the feeding value of millet
traw from which ihe seed has been threshed? Ans.-1, 2 and 3.-Coal ashes have
practically no value as a fertilizer. practically no value as a fertilizer.
4. The mechanical action on light soils is very slight. If the soil were coarse
sand. they would be of some value in sand, they wou 5. To get highest feeding value of mil-
let, it should be cut when in blossom. If allowed to ripen, the straw becomes dry
and woody, and is and
 tock, unless fed in very limitiur quanti-
ties, along with other fodder. We have no figures to show the feeding value of
millet straw, but the removal of the seed should deteriorate the crop as much as
the remoal of the grain from an oat erop. In our opinion it w
less than iow-grade straw.

CEMENT FENCE POSTS.
What is the best proportion to mix
coment and gravel for fence posts, with coment and gravel for fence posts, with
$t$-inch iron rod in center and $2 \times 22$ inch
wood in post for staples? What size post is best
Ans.-Some authorities recommend one
of cement to fove of sand and gravel.
standard $\begin{array}{ll}\text { standard proportion is } & 1 \text { cement, } 2, \\ \text { sand, and } & \text { arts finely-broken stone of }\end{array}$ gravel. It is not the best plan to rely on an iron rod in the center of the post
for reinforcing. Better use twisted win
 and the cement settles around them se curely with very litlle tamping. You
suggestion of using a strip of wood staples would be grod, were it not for
the fact that the wood is come watersoaked, and then frost causes this to expand, thus cracking and crum
bling the post. Besides this, the wood,
in time, would $6 \ddagger$ feet long, $4 \times 4$ inches at the base $3 \times 3$ inches at the top, are advised for
fences, and for corners or ate Tences, and for corners or gate posts,
feet long. $6 \times 6$ inches at the base, and secommended for attaching the wire
the of wire. leaving a small loop exposed to
which the wire strands can be bound by soft wire.
ACREAGE - INVESTING TRUST FUNDS.
The I bought a farm of 114 acres. When
teing was received, no number of acres
mentioned, just part of lots and being mentioned, just part of lots and and
number. Said property at one time contained several hundred acteres, but was
divided up into several farms by a former owner. Where can I get a survey ot
place so that I may be sure that I have
the given number getting same? funds from school trustees take school
for lan out to a neigh-
bor at higher rate of interest. kiving district credit for higher rate of interest, as
several ratepayers are objecting
 investigation by a solicitor, and yo
ought to instruct one without delay. H
will advise you whether a survey i necessary. It is possible tha 2. We think not, unless possibly in case And the interest thereon is secured loan a
tirst mortgage on real estate held and
used for farming purposes
 according to the lalue of such real estat
rolli. We asesesmen
ro not and any clause in the
Tole

THE FARMER'S ADVOCATE.

## A \$5,000 DAN PATCH STALLION FREE

This New Picture of DAN PATCH I:55 in Six Brilliant Colors
DMAILED FREE UL

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| ETMal thle Pree Coupon To-DAy to E. B. BAVAGE, Toronto, Oan. ar You Must Flli in the Thare blank Lines in this frer couront |  |  |  |
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HIGH PRICES PAID FOR HIDES, SHEEPSKINS, RAW FURS AND


Write for our com. - T CARTER \&. CO, wepay FREIGHT and


 CLYDESDALES

 One pair of bay marese and one dark brown. beavy
draft and two spring cols.

GEO. Anoos \& SON, Moffer station and P.O JAMIES MAARTHUR, Goblen, Oatario

Cavee for sale by our srand aumartete of broadiag
Shorthorns!
BELMAR PARC Marigold Sailor. Noapareil Eclipue. Females, imported and from imported stocks, in calli John Douglas, Peter White, An unsurpassed lot of yearling beifers.

 A ten etra rod youg shorthorn bula and
 A. W. SMITH, MAPLE LODGE P. O., ONT


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H. SMITH, EXETER, ONT.

Imported Bull!
 WILLOW BANK STOCK FARM $\rightarrow \begin{aligned} & \text { Sherthorns, Lelcesters. } \\ & \text { Herd established 1855; fock } 1888 \\ & \text { The egrat }\end{aligned}$ The great Duthiebred bulition-
portod Joy of Morning $=3000=$ =
puthe head of herd

 SHORTHORNS !

 John Racey, Stock Bull Trout Creek Sallor =59421
 ANGASTEROONT
Hamiton Electric

Shorthorm Bulls $\begin{aligned} & \text { Ready for service. One wil } \\ & \text { male } a \text { abow bull. Als }\end{aligned}$

 Scotch Shorthorns $\begin{aligned} & \text { Fititen choice red } \\ & \text { bulls. } 7 \text { to } 17 \text {, whs. }\end{aligned}$
 M. C. and P. M Rys Mc


Lost Enerǵy Restored by Psychine.
 whs so run down thin mide emaciated, lint we thouphat he was going indor per cilino nnd teared he wout of the wither Hoonthe The boy had no appetile and
moemed to have lost all energy and inter
 at in sh. pe. His wis ondiliton cuused us the rryest taxiery.


 toouta change Atter tuing one ort the borles hy wat epedy cure and he was soon able to work Ebout on the from evin Troiny ho in of


 off thent erribil malady Lis crippe and tompletely forinestuen th for colds,
 Send to Dre. Tronto. Sold by yll drug Spainn Ave. Torontio. Solid.by DS \% mo

ou cannot possioly have a cannot possioly han

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delicious drink and a sustaining ood. Fragrant, nutritious anc economical. This excellent Cocoa maintains the system in robus healt, winter's extreme cold

vesetable Growers and Fruit Raisers


THE FARMER


## RAW FURS 200,000 MUSKRAT

We buy hll other kinus of funa fur Co. 11 and 13 Clurch S.
The Monteith, Strother Fur Co.

Stonehouse Ayrshires.
Sale of the Most Celebrated Herd of Ayrshires in the World.
 THURSDAY, MAY 201h
 FRIDAY, MAY 21st,

 D. M. WATT, St. Louls Sta., Que. $\begin{aligned} & \text { (this sale. }\end{aligned}$

Important Dispersion Sale

## AYRSHIREA

The property of MR. D. A. JAMES. Dorchester, Ont. will be held
at the farm, $1 / 2 \mathrm{miles}$ West of D.orhester teation, G. T. R. oo
TUESDAY, MARCH 16, 1909. Thi herd comorises 29 females and one oun. and haas been bred." Performance.
 TERMS: sio and under. cash; over nat amo
per cent. per annum off for cash.

Messrs. Dibb and Lindsay,
D. A. JAMES, Prop.


 yearing bul.
doch. 0 mt .

Stoneycroft Ayrshires Choice young bulls and heifers of the very best breed-
ing, combining show and dairy quality. Large Improved Yorkshire PIIs from Stoneycroft Stock Farm, Ste. Anne de Bellevwe, Que

 allan p. blue.

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0.0
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AYRSHIRES AND YORKSHIRES !


AYRSHIRES $\left.\begin{aligned} & \text { Bull and hecter calves trom proal } \\ & \text { ducing damse Right good oces. }\end{aligned} \right\rvert\,$ ARDEND AYRSHIRES



Springhill Ayrshires!

 ROBERT HUNTER \& SONS, Maxville, omt.

Married Man Wanted vert.intarn work am now oftering voung bulls and heferest tree to


мансй 11. 1909
QUESTIONS AND ANSWERS
 Ans,- -t is very hard to diagnose with
out more particulars as to symptoms and it would be wise to have her ex
amined by veterinarian and have the troublo located. 1 am of the opinion
the lameness is in the foot, and would
tomen
 and Cower margin of the wall well down
dip the hair off for about two inche high all around tho hoor. Make a blister
o two drams each of biniodide at cury and cantharides, mixad with two ounces of vasel ine. The her so that she she
cannot bite the parts.
Rub well with the pliter once daily, for two days. On loose box now and oil every day. As blister again, and after this blister once cerod four or ive tilmes. has been blis-
my diag tato the symptoms. and probably cure.

Miscellaneous.
semding with spring grain have about twenty acres that was in
sals last year. ${ }^{\text {It }}$ is clean and well
is

 $x_{\text {mix }}$ my grass toand Ans- -ieed down with barley at the ate of a bushel nat a halle of bariey
per acere with this sow 4 los. timoth
trade topics
olmist slbeping cars to thi
For a thoroughly comfortablo trip to
Winnipeg, any point in the Northweet, or the Coast, reserve a berth in a Canadian
Pacific tourist gleeper, loaving Toronto daily at 10.15 p m. mor. Cost of a roomy
berrh is but $\$ 4.00$ to Winnipeg, $\$ 5.00$ to

 Changed daily, every convenience is is pro-
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 birtha, Which should be secur
Ma ance of dato of leanivg.



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Then there's the "Tie That Binds"-the Then there's the "Tie That Binds"-t
greatest little invention of recent years. This tie hooks on the running wire and locks smooth on both sides. Being a long oval loop, it permits of a long bend in the line wires This tie does not injure the running and
upright wires, yet holds the wires absolutely secure at the point of crossing.
Get the true facts about wire fences. Write for Get the true facts about
our book and sample lock.
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421
and destroye with cattle breaking theng being down after an ordinary storm. "There are no soft wires-no weak spots in the "Standard" Wire Fence is all No. 9 Hard Steel Wire, that has the strength and lasting qualities
which every farmer wants. All wires are well galvanized. That means no rust and long wear-and the crimp
allows for contraction and expansion.
the standard wire fence co. of woodstock. LTD.

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The finest feed known for stock. Once a user, either fine or coarse ground. Write
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FOR SALE R. Honey. Brickley, Ontario,
NORTHUMEELLAND
ioutry. Bull fit for service, trom cows with
larke records ouws fot tomate, alo young pigs,
loch sexes. of the very best bacon type. Prices


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Write for Weokly Prioe Llsta.
JOHN HALLAM
ORONTO, ONT
Riverside Holsteins $\begin{gathered}\text { Centre and Hill view Holsteins } \\ \text { Wen }\end{gathered}$


## HOLSTEINS

 Also a tew young b
son of Henerveld
breeds represented $\qquad$ of herd. All leading ity
H. E. George, Crampton, ont.


Summer hill herd of HOLSTEIN CATTLE
 our herd. We want to sell. Will price anything, and guarantee it just as die
scribed.
Our stock bull, summer Hil
 age $29 \%$ U Los. butter in 7 tays, and one 4

 gave over 1 Berouls. met at Hamitoce by
 Bell Phone in House: 2471 Hamilton.





 E. \& F. MALLORY, FRANKFORD, ONTARIO. The Maples Holstefr H

 EVERGREEN STOCK FARM
 F. E. PETTIT, Burgessville, Oxford Co.. Ontario. Maple Hill Holstein-Friesians
 Pietertje C.; one fresh in Nec., just bred
One yearling bull fit for servic.
OT. GEORGE, OMT. D0N?TM
 HOLSTEINS $\begin{gathered}\text { Two } \\ \text { heifer }\end{gathered}$ Prices right for quick sale. White Rock and Bu
 Young Holstein Bulls For sale: Two
 nut of young cows that are showing up well. Win
be sold heap for quick sale. Jost Marrison.

Aftictod for yeare with a Diseased Liven Mr. L. R. Devitt, Berlin, Ont, bettor
known, perhaps, as "، Bmallpox Ben," hae MILBURN'S LAXA-LIVER PILLS IIo has aloo used them for his patiento
when nursing them, and it is a well-known fort that small-pox sufferers must koop the Read what ho aflicted for years with a diseased liver, and have tried sill kinds of medicine, but of no avail until about four years ago tried ginco then I have nureed different patient affioted with small-pox, and
have usod your valuabal pills. with etomach or liver troubles will try Mil. burn's Laxa-Liver Pills. I will advertise epportunity and I hope that if at any time toanot get the pills, I will bes?ortunato enough to get the formula"
Miburns Laza . Liver Pills are
ald conts per vial or 5 vials for $\$ 1.00$, at all doalera
Woill be mailed dirroct by The T. Milburu
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FOR SALE BY AUCTION
40 Registered Oxford Down Ewes,
on monday. the 15 th of march, 1909, at 2 o'clock sharp.
 What per cent. is corn? duty on corn coming from the United
S.tates for seded? Ans-The average yited of Canada's
-orn for husking was estimated at 62.4 oushels for 1988 . Seventy-five or eighty
oushels is easy to seure, and amon,

 WEIGHT OF SILAGE.
What is the weight of silage per foo
in a round silo, 12 feet 2 inches, and 32 eet high, which had been filled in Sep eet high, which had been filled in Sep
ember, and after feeding 116 feet was r
illed the last of December. What wi

## SHEEP SCAB <br> And How To Cure It

that should be in tue Hanco

$$
\begin{aligned}
& \text { stockman who raises sheep. } \\
& \text { It tells what "Scab" is-how to detect it-how the disease spreads- }
\end{aligned}
$$ how to cure it-and how to rid the flocks of it. 65 years experience in This book was written by men who have had 65 years experike first



be about the weight of the last 4 or 5
feet in the bottom? Ans.-The estimate for silage of verages
quatity and put away under averaye co
ditions in qualty, and a silo 12 feet in diameter and
ditions in a
32 feet high, is 73 tons. Since your
silo is 12 feet 2 inches, the capacity will
se somewhat greater, hut the tons will
be som


©MONKLAND YORKSHIRES JAMES WILSON \& SONS, FERGUS, ONTARIO

Newcastle Stock Farm Duroc-JERSEY SWINE

 Abor
Sons. HARTICH. ONT.

Wery tightly tramped. Weight also will
ary, according to the maturity of the
corn, and the length of time between and putting in the silo. The
ant orn that was put away in December
ould be considerably lighter per foot in
oo silo than that stored in September
he bottom four or five feet would WANT ADVERTISEMENTS.
Could you give information about where
person could buy fillies in Canada chich are of the Baron's Pride stock
have noticod from the report of saled
hat many of the sons of Baron's Prid of these noted horses and their presen
owners in "The Farmer's Advocate,",
hink you would confer a favor on horse
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<br>Thrrishod ont mplicution to "Th" H



## The Fence You Can Depend On

Peerless is better fence because it is made on right principles, from good material, by good workmen-in a well equipped factory.

The PEERLESS lock holds the horizontal and cross wires securely at each intersection. Ample provision is made for contraction and expansion due to sudden changes of temperature
sudden shocks, etc.
THE BANWELL HOXIE WIRE FENGE COMPANY, Ltd.
Dept. B, Hamiltom, Ont or Winnipeg, Man.

## To Turn Any Kind of Stock

PEERLESS Fence is made of all
No. 9 hard steel wire-well galvan-
ized. When well stretched it never No. 9 hard steel wire-well galvan-
ized. When well stretched it never
sags-never bags-looks we th and sags-never bags-looks well and
wears well. That's why it is "the
fence that saves expense., fence that saves expense."

Improved farm equipment means larger profits for the farmer. PEERLESS Woven Wire Fencing is the
latest improvement in farm fencing. Our free booklet will tell some-
thing new about fencing. A postal别 will bring it.

## LAND <br> SETTLEM

tands are offered for
some cases FREE, in some cases FREE, in tricts in Nor acre, in
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[^2]:    

[^3]:    irim

